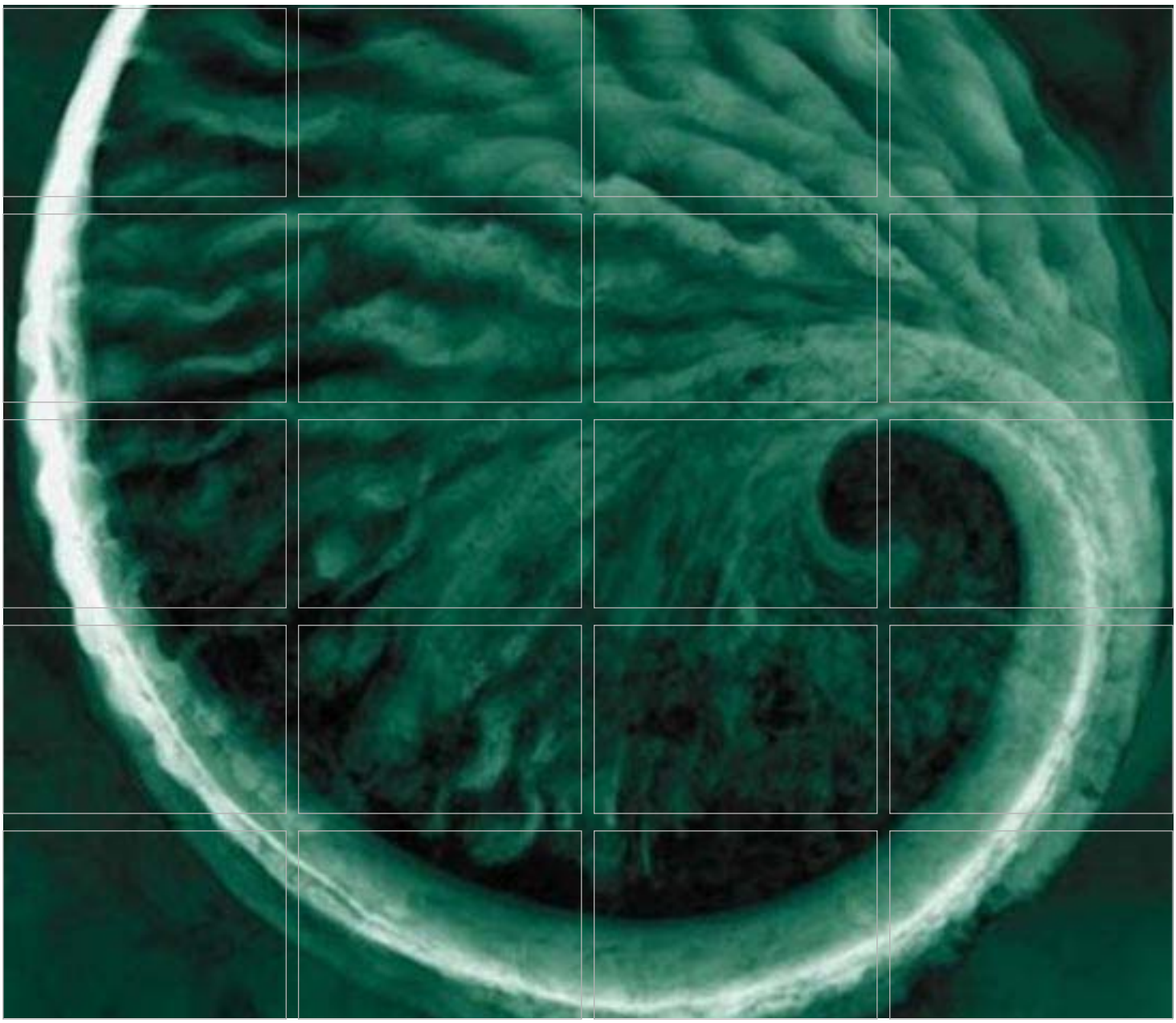

Regional Waste Management Capacity: Survey, Methodology and Monitoring

Final Report

March 2007

Delivering sustainable solutions in a more competitive world

ERM

SEERA

Regional Waste Management Capacity: Survey, Methodology and Monitoring

March 2007

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1 INTRODUCTION

1.1 BACKGROUND TO STUDY

The South East of England Regional Assembly (SEERA) commissioned ERM early in 2006 to produce an assessment of the capacity of existing and planned waste management infrastructure in the South East England Region. The study was designed to follow on from previous consultancy work that had been carried out for SEERA by ERM and another consultancy. Previously, estimates of capacity and arisings had been made in these studies. The capacity element, in particular, was identified as requiring further investigation to enable SEERA and its constituent waste planning authorities (WPA) to base future plans on more reliable and robust data.

1.2 OBJECTIVE

The objective of this study was to deliver predictions of existing and planned capacity at regional and WPA levels, and, through comparison with estimates of waste arising, intraregional movements, and the apportionment of imports, to demonstrate the additional capacity required by WPA and by treatment type.

The method was required to be able to be revised readily as new capacity or arisings data are made available in the future. For the capacity data, the aim was to include details of the site location, capacity and throughput, and differing planning status. The capacity data has been aggregated so as to maintain confidentiality for individual waste companies. Waste arisings data for the SE Region were sourced from a previous ERM study for SEERA in 2005, titled *Update of the Model for Future Waste Management Capacity Needs in the South East*.

This report highlights the gaps in capacity both by capacity type and spatially across the Region.

1.3 REPORT STRUCTURE

The remainder of this report contains the following *Sections*:

Section 2 Waste Management Capacity;

Section 3 Waste Arisings;

Section 4 Model Structure;

Section 5 Capacity Gap;

Section 6 Monitoring of Capacity; and

Section 7 Summary and Conclusions.

2 WASTE MANAGEMENT CAPACITY

2.1 WASTE MANAGEMENT CAPACITY DATABASE

ERM has developed a bespoke MS Excel model for SEERA that brings together the data for each waste management facility across the SE Region. We have drawn together data that was provided directly by each WPA and data provided by the Environment Agency (EA) in order to estimate the waste management capacity of the Region as a whole and of its constituent WPAs.

ERM asked each WPA to classify sites in their sub-region into pre-determined categories, as follows:

- Landfill
  - Non-hazardous landfill;
  - Inert landfill;
  - Hazardous landfill;
- Recycling and composting
  - Municipal solid waste (MSW) and commercial and industrial (C&I) recycling;
  - Construction and demolition (C&D) recycling;
  - MSW and C&I transfer;
  - MSW and C&I composting;
- Recovery
  - MSW and C&I incineration;
  - MSW and C&I treatment;
- Others
  - Metal/end of life vehicle (ELV) facility;
  - Ignored; and
  - Closed sites.

Where classifications were not initially clarified by the WPA, ERM allocated the site a classification that we deemed appropriate, and all classifications were rechecked and agreed with the WPAs.

The categories above were broadly based on groupings of the EA's Operator Performance Risk Appraisal (OPRA) system of codes for waste sites. However, these codes did not cover all facilities needed within the model (ie C&D recovery and C&D recycling). *Table 2.1* shows the correlation between the OPRA codes and the categories used in the model.

Table 2.1 Waste Categories Used in the Model

OPRA Code	Name in Model
A1 - Co-Disposal Landfill Site	Non-hazardous landfill, inert landfill or hazardous landfill
A2 - Other Landfill Site taking Special Waste	Hazardous landfill
A4 – Household, Commercial & Industrial Waste Landfill	Non-hazardous landfill
A5 - Landfill taking Non-Biodegradable Wastes	Inert landfill
A6 - Landfill taking other wastes	Inert landfill
A7 - Industrial Waste Landfill (Factory curtilage)	Ignored
A8 – Lagoon	Ignored
A9 - Special Waste Transfer Station	MSW and C&I transfer
A10 - In-House Storage Facility	Ignored
A11 - Household, Commercial & Industrial Waste Transfer Station	MSW and C&I transfer or MSW and C&I treatment
A12 - Clinical Waste Transfer Station	MSW and C&I transfer or MSW and C&I treatment
A13 - Household Waste Amenity Site	MSW and C&I transfer or MSW and C&I treatment
A14 - Transfer Station taking Non-Biodegradable Wastes	MSW and C&I transfer or MSW and C&I treatment
A15 - Material Recycling Treatment Facility	MSW and C&I recycling or MSW and C&I transfer
A16 - Physical Treatment Facility	MSW and C&I recycling or MSW and C&I transfer
A17 - Physico-Chemical Treatment Facility	MSW and C&I recycling or MSW and C&I transfer
A18 – Incinerator	MSW and C&I incineration
A19 - Metal Recycling Site (vehicle dismantler)	Metal/ELV facility
A19a - Metal Recycling Site (End of Life Vehicle)	Metal/ELV facility
A20 - Metal Recycling Site (mixed MRSs)	Metal/ELV facility
A21 - Chemical Treatment Facility	MSW and C&I treatment or MSW and C&I transfer
A22 - Composting Facility	MSW and C&I composting
A23 – Biological Treatment Facility	MSW and C&I treatment or MSW and C&I transfer
A24 - Mobile Plant	Ignored
Uncoded	C&D recycling
Uncoded	C&D recovery

Note: Where OPRA codes can be assigned to more than one capacity name used within in the model, the WPA made the individual site selection.

2.2 WPA QUESTIONNAIRE

ERM surveyed each WPA in the SE Region in order to acquire data on waste the management facilities within their borders. Over an extended period, responses were received from all WPAs. These data were collated along with site-specific data provided by the EA (1) in order to determine a baseline level of capacity for each WPA.

Annex A shows the completed questionnaires for each WPA.

The results have been aggregated by treatment type to preserve the anonymity of individual sites and operators. Where capacity data were not made available by the WPA, data from the EA was used to estimate the baseline capacity. In cases where data were not available from either of these sources, an extrapolation, based on the size of similar sites in that area, was made to estimate the baseline capacity. *Table 2.2* shows the number of sites in the SE Region by treatment type and indicates where gaps in the data exist.

Table 2.2 Provision of Data by Treatment Type for the SE Region

Treatment type	Number Sites in SE Region	Number of sites where capacity data was not available	Number of sites where capacity data was provided	Proportion of sites where data was available (%)
Landfill				
Non-hazardous landfill	50	21	29	58%
Inert landfill	89	40	49	55%
Hazardous landfill	6	2	4	67%
Recycling and composting				
MSW and C&I recycling	56	9	47	84%
C&D recycling	9	1	8	89%
MSW and C&I transfer	350	32	318	91%
MSW and C&I composting	41	7	34	83%
Hazardous waste recycling	No data	No data	No data	No data
Recovery				
MSW and C&I incineration	16	2	14	88%
MSW and C&I treatment	74	10	64	86%
C&D recovery	No data	No data	No data	No data
Hazardous waste recovery	No data	No data	No data	No data
Others				
Metal/ELV facility	209	41	168	80%
Ignored	67	25	42	63%
Closed sites	42	30	12	29%

Note: The capacity model developed by ERM for this study does not include the capacity provided in the 'Others' group in its calculations because these are not relevant to the management of MSW, C&I and C&D. These data are included for the purposes of completeness.

(1) Data was taken from a site list provided by the EA in 2006. The site list included the most up to date site data, including capacity information, held by the EA.

As can be seen from *Table 2.2*, some treatment types have less available data than others and therefore the extrapolations made to estimate total capacity for these types are relatively more uncertain.

The extrapolation was conducted in a linear manner according to the number of sites (eg in the case of 'MSW and C&I recycling', 9 sites did not have a capacity figure, and we assumed for these sites an average capacity of the other known sites within that WPA).

All non-landfill facilities had an extrapolation carried out in order to estimate total baseline capacity. We did not extrapolate capacity data for inert landfill, hazardous landfill and non-hazardous landfill, where just over half of the sites had data available, due to the varying nature and size of landfill facilities. For landfill sites, we assumed that data made available represents the total capacity. Therefore the landfill estimates are likely to be an underestimate of total capacity and the results presented are a worst case estimate.

Table 2.3 shows the total capacity based on the data made available to ERM through the survey and the total baseline capacity for the SE Region based on our extrapolations.

Table 2.3 The SE Region Baseline Capacity by Treatment Type (million tonnes)

Treatment type	Total capacity of sites where capacity data was provided	Total baseline capacity using extrapolation by ERM
Landfill		
Non-hazardous landfill	67.791	67.791
Inert landfill	74.608	74.608
Hazardous landfill	3.309	3.309
Recycling and composting		
MSW and C&I recycling	5.427	7.601
C&D recycling	0.387	0.409
MSW and C&I transfer	12.744	13.946
MSW and C&I composting	0.624	0.711
Hazardous waste recycling	No data	No data
Recovery		
MSW and C&I incineration	0.990	0.992
MSW and C&I treatment	2.544	3.242
C&D recovery	No data	No data
Hazardous waste recovery	No data	No data
Others		
Metal/ELV facility	3.385	4.117
Ignored	6.005	8.142
Closed sites	0.454	1.807

Table 2.4 shows the amount of data made available for the survey by each WPA and the SE Region as a whole. In total, there were data available for 82% of all sites in the Region. Whilst it would be ideal to obtain data for all sites, thus alleviating the need to extrapolate, ERM believes that this is a fairly robust and satisfactory set of data upon which to forecast capacity needs.

Table 2.4 Provision of Data by Sub-region

	Proportion of sites where data was available (%)
Berkshire	77%
Buckinghamshire	82%
East Sussex	82%
Hampshire	83%
Isle of Wight	53%
Kent	93%
Medway	67%
Milton Keynes	87%
Oxfordshire	89%
Surrey	73%
West Sussex	80%
SE Region	82%

In order to manage uncertainty associated with data in the model relating to capacity, we have developed three scenarios for calculation of the results, as shown in *Table 2.5* and described below.

Table 2.5 Scenarios Used to Generate Results

	Includes all current operational sites	Includes all current sites in planning (1)	**Includes data extrapolation**
Scenario 1	✓	✓	✓
Scenario 2	✓	×	✓
Scenario 3	✓	✓	×

Scenario 1 *Baseline*: This scenario includes all sites irrespective of their operational and planning status. Where data gaps exist, extrapolation has been used to estimate total capacity. This scenario estimates a maximum total capacity available in the SE Region.

Scenario 2 *Operational Sites Only*: This scenario includes all operational sites but excludes those not yet online, eg those at planning status. Where data gaps exist, extrapolation has been used to estimate total capacity.

Scenario 3 *No extrapolation*: This scenario includes all sites irrespective of their operational and planning status. Where data gaps exist, there was no extrapolation carried out. This scenario estimates a minimum total capacity available in the SE Region.

The total capacity figures for the three scenarios are shown in *Table 2.6*, *Table 2.7* and *Table 2.8*.

(1) This refers to all sites that have planning permission or are applying for permissions

Table 2.6 Scenario 1 – Baseline: Waste Treatment Capacity by Sub-region (million tonnes)

	Berkshire	Buckingha mshire	East Sussex	Hampshire	Isle of Wight	Kent	Medway	Milton Keynes	Oxfordshire	Surrey	West Sussex
Landfill											
Non-hazardous landfill	0.055	10.500	0.825	3.084	0.950	7.275	0.475	22.000	11.675	8.515	2.437
Inert landfill	0.181	26.051	0.000	2.143	0.000	29.297	0.000	1.128	4.276	11.532	0.000
Hazardous landfill	0.000	0.000	0.000	0.000	0.000	3.309	0.000	0.000	0.000	0.000	0.000
Recycling and composting											
MSW and C&I recycling	0.601	0.263	0.000	4.245	0.399	0.399	0.000	0.186	0.713	1.194	0.000
C&D recycling	0.064	0.000	0.000	0.072	0.000	0.165	0.000	0.000	0.107	0.000	0.000
MSW and C&I transfer	1.021	0.404	1.644	2.679	0.088	2.860	1.730	0.169	0.259	2.116	0.976
MSW and C&I composting	0.035	0.071	0.030	0.210	0.052	0.206	0.000	0.025	0.050	0.000	0.033
Hazardous waste recycling	No data	No data	No data	No data	No data	No data	No data	No data	No data	No data	No data
Recovery											
MSW and C&I incineration	0	0	0.000	0.481	0.000	0.503	0.000	0.000	0.000	0.007	0.000
MSW and C&I treatment	0.360	0.186	0.306	1.287	0.120	0.276	0.005	0.075	0.150	0.134	0.341
C&D recovery	No data	No data	No data	No data	No data	No data	No data	No data	No data	No data	No data
Hazardous waste recovery	No data	No data	No data	No data	No data	No data	No data	No data	No data	No data	No data
Others											
Metal/ELV facility	0.182	0.050	0.500	1.040	0.147	0.973	0.414	0.055	0.227	0.024	0.505
Ignored	1.525	0.137	0.086	1.520	0.000	1.854	0.000	0.000	0.000	2.571	0.450
Closed sites	0.640	0.000	0.000	1.164	0.000	0.003	0.000	0.000	0.000	0.000	0.000

Table 2.7 Scenario 2 – Operational Sites Only: Waste Treatment Capacity by Sub-region (million tonnes)

	Berkshire	Buckinghamshire	East Sussex	Hampshire	Isle of Wight	Kent	Medway	Milton Keynes	Oxfordshire	Surrey	West Sussex
Landfill											
Non-hazardous landfill	0.055	10.500	0.825	0.538	0.950	7.275	0.075	22.000	11.675	8.515	2.437
Inert landfill	0.091	25.700	0.000	2.143	0.000	27.337	0.000	0.312	4.276	11.526	0.000
Hazardous landfill	0.000	0.000	0.000	0.000	0.000	3.309	0.000	0.000	0.000	0.000	0.000
Recycling and composting											
MSW and C&I recycling	0.601	0.221	0.000	4.068	0.000	0.334	0.000	0.186	0.713	1.017	0.000
C&D recycling	0.064	0.000	0.000	0.072	0.000	0.065	0.000	0.000	0.107	0.000	0.000
MSW and C&I transfer	1.019	0.379	1.646	2.423	0.088	1.764	0.878	0.169	0.259	2.007	0.903
MSW and C&I composting	0.035	0.053	0.030	0.140	0.052	0.084	0.000	0.000	0.050	0.000	0.033
Hazardous waste recycling	No data	No data	No data	No data	No data	No data	No data	No data	No data	No data	No data
Recovery											
MSW and C&I incineration	0.000	0.000	0.000	0.481	0.000	0.003	0.000	0.000	0.000	0.006	0.000
MSW and C&I treatment	0.220	0.186	0.306	1.061	0.080	0.227	0.005	0.075	0.150	0.134	0.141
C&D recovery	No data	No data	No data	No data	No data	No data	No data	No data	No data	No data	No data
Hazardous waste recovery	No data	No data	No data	No data	No data	No data	No data	No data	No data	No data	No data
Others											
Metal/ELV facility	0.088	0.050	0.500	0.840	0.102	0.962	0.414	0.055	0.227	0.024	0.459
Ignored	1.525	0.137	0.032	1.330	0.000	1.779	0.000	0.000	0.000	2.571	0.300
Closed sites	0.640	0.000	0.000	0.873	0.000	0.005	0.000	0.000	0.000	0.000	0.000

Table 2.8 Scenario 3 – No Extrapolation: Waste Treatment Capacity by Sub-region (million tonnes)

	Berkshire	Buckinghamshire	East Sussex	Hampshire	Isle of Wight	Kent	Medway	Milton Keynes	Oxfordshire	Surrey	West Sussex
Landfill											
Non-hazardous landfill	0.055	10.500	0.825	3.084	0.950	7.275	0.475	22.000	11.675	8.515	2.437
Inert landfill	0.181	26.051	0.000	2.143	0.000	29.297	0.000	1.128	4.276	11.532	0.000
Hazardous landfill	0.000	0.000	0.000	0.000	0.000	3.309	0.000	0.000	0.000	0.000	0.000
Recycling and composting											
MSW and C&I recycling	0.601	0.167	0.000	2.516	0.000	0.399	0.000	0.093	0.713	0.938	0.000
C&D recycling	0.043	0.000	0.000	0.072	0.000	0.165	0.000	0.000	0.107	0.000	0.000
MSW and C&I transfer	0.918	0.387	1.404	2.260	0.088	2.860	1.457	0.148	0.226	2.054	0.942
MSW and C&I composting	0.035	0.053	0.030	0.140	0.052	0.206	0.000	0.025	0.050	0.000	0.033
Hazardous waste recycling	No data	No data	No data	No data	No data	No data	No data	No data	No data	No data	No data
Recovery											
MSW and C&I incineration	0.000	0.000	0.000	0.481	0.000	0.503	0.000	0.000	0.000	0.006	0.000
MSW and C&I treatment	0.300	0.093	0.255	0.908	0.080	0.276	0.005	0.075	0.075	0.134	0.341
C&D recovery	No data	No data	No data	No data	No data	No data	No data	No data	No data	No data	No data
Hazardous waste recovery	No data	No data	No data	No data	No data	No data	No data	No data	No data	No data	No data
Others											
Metal/ELV facility	0.182	0.042	0.432	0.796	0.110	0.973	0.166	0.055	0.198	0.017	0.413
Ignored	1.525	0.102	0.021	0.950	0.000	1.854	0.000	0.000	0.000	1.402	0.150
Closed sites	0.160	0.000	0.000	0.291	0.000	0.003	0.000	0.000	0.000	0.000	0.000

2.3 ASSUMPTIONS AND LIMITATIONS

Within the model, there were a number of assumptions that needed to be made. These were based, where possible, on existing data or relevant examples.

2.3.1 MSW and C&I Transfer

MSW and C&I transfer as a category includes a range of facilities where bulking of recyclables prior to transporting to reprocessing facilities is likely to occupy a proportion of the available capacity at the site. We have assumed that, on average, 20% of the capacity at such sites is occupied by such activities rather than 'transfer' per se for subsequent disposal. This capacity was added to the *MSW and C&I recycling* capacity to estimate the total available capacity for such operations. The assumption is uncertain, and due to the potential error associated with it, we have also conducted a worse-case sensitivity analysis which assumed 5% of *MSW and C&I transfer* capacity is delivering bulking for recycling. The sensitivity is presented in the results.

2.3.2 C&D Recovery

The *C&D recovery* capacity was not updated as part of this study due to a lack of available data. The capacity used was based on the previous work conducted by MEL and by ERM, and draws on a figure from the Symonds Group study, titled *Survey of Arisings and Use of Construction and Demolition Waste 2001*, which forecasts C&D recovery capacity for the SE Region. As recovery capacity is only available at a SE Regional level, it was not possible to show a sub-regional breakdown in the results. The study further assumes that total C&D reuse on inert and non-hazardous landfill has already been accounted for by C&D reuse as an engineering material.

2.3.3 Hazardous Waste Recycling and Recovery

As part of the survey conducted by ERM, we were unable to identify the level of capacity for recycling and recovering hazardous waste. Consequently, we were not able to generate a comparison of these capacities with the hazardous waste arisings.

2.3.4 Residue Rates

Table 2.9 shows the residue rates for the different waste management routes that were assessed within the model. The model calculates the amount of residue to be managed based on the waste sent to each treatment type, rather than on the level of capacity available.

However, it should be noted that the model does not consider the effect of residue that is sent to landfill in meeting the requirements of LATS. The reason for this is that the data available to ERM on the composition of each waste stream is not detailed enough to determine the biodegradable mass. We

recommend that further sensitivity analysis is conducted in this area to indicate the significance of biodegradable residue on the SE Region's ability to meet the requirements of LATS.

Table 2.9 Residue Rates

Treatment type	Residue rate
Recycling and composting	
MSW and C&I recycling	15%
C&D recycling	10%
MSW and C&I transfer	15%
MSW and C&I composting	15%
Recovery	
MSW and C&I incineration (bottom ash)	30%
MSW and C&I incineration (fly ash)	3%
MSW and C&I to treatment (non-hazardous)	45%
MSW and C&I to treatment (hazardous)	5%
C&D recovery	0%
MSW and C&I to Mechanical Biological Treatment (MBT)	59%
MSW and C&I to Refuse Derived Fuel (RDF)	12%

Source: Adapted from WRATE software, 2006, Environment Agency.

2.3.5 Bulk Densities

The model assumes that the bulk density of non hazardous waste is one tonne per cubic metre; with the same assumption made for hazardous wastes. Inert wastes are assumed to have a bulk density of two tonnes per cubic metre. The results in the model are all shown in tonnes. All capacity data for landfills were provided in cubic metres and were subject to these conversion rates prior to generating results. In the case of inert waste, this means that all landfill capacity figures were doubled to give the figure as a tonnage.

3 WASTE ARISINGS

3.1 ARISINGS DATA

ERM used the arisings estimates previously generated in the our study for SEERA in 2005, titled *Update of the Model for Future Waste Management Capacity Needs in the South East*, which forecast regional waste arisings to 2025. These arisings projections are detailed in this *Section*.

We have excluded any intra-regional movements of waste for all waste streams, with the exception of C&D waste. The C&D waste figures represent managed waste (ie they include intra- and inter-regional movements). These data were sourced from the Symonds Group study, titled *Survey of Arisings and Use of Construction and Demolition Waste 2001*, which surveyed C&D waste entering the treatment facility and therefore included any inter- and intra-regional movements. These data were used in ERM's previous model in 2005, and that developed by MEL in 2004.

Inter-regional movements have also been excluded for MSW and C&I waste, except for inter-regional movements from London into the Region. We have apportioned the London imports based on the recommended apportionment percentages in Policy W3 provided in the draft South East Plan (1). The total level of imports of MSW and C&I into the SE Region were taken from Table 2, Section D6, in the South East Plan (2). We have assumed a linear change in imports between target years shown in the South East Plan. It should be noted that the precise level of imports was an area still in discussion at the time of generating the results.

Table 3.1 MSW Imports into the SE Region, 2006-2025 (million tonnes)

	2006	2010	2013	2016	2020	2022	2025
Berkshire	0.055	0.049	0.041	0.034	0.028	0.027	0.025
Buckinghamshire	0.072	0.064	0.053	0.044	0.037	0.035	0.033
East Sussex	0.073	0.065	0.054	0.045	0.037	0.036	0.033
Hampshire	0.053	0.047	0.039	0.033	0.027	0.026	0.024
Isle of Wight	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Kent	0.061	0.055	0.046	0.038	0.031	0.030	0.028
Medway	0.010	0.009	0.007	0.006	0.005	0.005	0.004
Milton Keynes	0.146	0.131	0.109	0.090	0.075	0.071	0.067
Oxfordshire	0.108	0.097	0.081	0.067	0.056	0.053	0.050
Surrey	0.063	0.057	0.047	0.039	0.033	0.031	0.029
West Sussex	0.062	0.056	0.046	0.039	0.032	0.031	0.029
SE Region	**0.703**	**0.631**	**0.525**	**0.436**	**0.360**	**0.346**	**0.324**

(1) South East Plan, Section D6, Policy W3, p.142. www.southeast-ra.gov.uk/southeastplan/plan/march_2006/core_document/009_seera_sep_d06.pdf
(2) South East Plan, Section D6, Table 2, Landfill Requirements, p.156. www.southeast-ra.gov.uk/southeastplan/plan/march_2006/core_document/009_seera_sep_d06.pdf

Table 3.2 C&I Imports into the SE Region, 2006-2025 (million tonnes)

	2006	2010	2013	2016	2020	2022	2025
Berkshire	0.091	0.082	0.068	0.056	0.047	0.044	0.041
Buckinghamshire	0.217	0.194	0.162	0.134	0.111	0.106	0.098
East Sussex	0.072	0.064	0.054	0.044	0.037	0.035	0.032
Hampshire	0.091	0.082	0.068	0.057	0.047	0.045	0.041
Isle of Wight	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Kent	0.131	0.118	0.098	0.081	0.067	0.064	0.059
Medway	0.007	0.006	0.005	0.004	0.004	0.003	0.003
Milton Keynes	0.028	0.025	0.021	0.017	0.014	0.013	0.012
Oxfordshire	0.183	0.165	0.137	0.114	0.094	0.089	0.083
Surrey	0.081	0.072	0.060	0.050	0.041	0.039	0.036
West Sussex	0.111	0.100	0.083	0.069	0.057	0.054	0.050
SE Region	**1.011**	**0.908**	**0.756**	**0.627**	**0.519**	**0.493**	**0.456**

All imports from London are assumed to be sent direct to landfill. This is in line with Policy W3 of the South East Plan.

The estimated level of growth for MSW, C&I and C&D waste was based upon the SE Regional growth forecast from the updated model by ERM in 2005. In that study, several sub-regions also provided alternative growth rates based on their own sub-regional forecasts. We have not used these alternative rates to generate results.

Table 3.3, *Table 3.5* and *Table 3.6* show the projected quantities of MSW, C&I and C&D to be managed for certain years throughout the forecast period.

Table 3.3 MSW Arisings for SE Region, 2006-2025 (million tonnes) (3 sig. figs)

	2006	2010	2013	2016	2020	2022	2025
Berkshire	0.53	0.57	0.60	0.62	0.65	0.67	0.70
Buckinghamshire	0.38	0.40	0.41	0.42	0.44	0.45	0.46
East Sussex	0.49	0.53	0.54	0.56	0.59	0.60	0.63
Hampshire	1.01	1.11	1.16	1.22	1.29	1.32	1.38
Isle of Wight	0.09	0.10	0.11	0.11	0.12	0.12	0.13
Kent	0.94	1.02	1.07	1.12	1.18	1.21	1.27
Medway	0.15	0.16	0.17	0.18	0.19	0.19	0.20
Milton Keynes	0.28	0.28	0.26	0.25	0.25	0.25	0.25
Oxfordshire	0.45	0.48	0.49	0.49	0.51	0.52	0.54
Surrey	0.72	0.78	0.82	0.85	0.90	0.92	0.96
West Sussex	0.55	0.60	0.62	0.64	0.68	0.69	0.72
SE Region	**5.59**	**6.02**	**6.25**	**6.48**	**6.77**	**6.95**	**7.23**

Source: Adapted from ERM, 2005. Update of the Model for Future Waste Management Capacity Needs in the South East

Note: Intra-regional movements used in the model by ERM in 2005 are not included in the arisings figures. Inter-regional movements are only accepted from London and these have been updated to reflect Policy W3 of the draft South East Plan.

Table 3.4 SE Regional Growth Rates for MSW, C&I, C&D and Hazardous Waste

	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
MSW	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%
C&I	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.0%	1.0%	1.0%	1.0%	1.0%
C&D	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Hazardous	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.0%	1.0%	1.0%	1.0%	1.0%

Source: ERM, 2005. Update of the Model for Future Waste Management Capacity Needs in the South East

Table 3.5 C&I Arisings in the SE Region, 2006-2025 (million tonnes) (3 sig. figs)

	2006	2010	2013	2016	2020	2022	2025
Berkshire	0.87	0.95	0.99	1.03	1.08	1.09	1.12
Buckinghamshire	1.14	1.21	1.24	1.27	1.32	1.34	1.37
East Sussex	0.49	0.52	0.54	0.56	0.58	0.59	0.60
Hampshire	1.75	1.91	2.01	2.11	2.22	2.26	2.33
Isle of Wight	0.14	0.15	0.16	0.17	0.18	0.18	0.19
Kent	2.00	2.18	2.29	2.40	2.53	2.57	2.64
Medway	0.10	0.11	0.12	0.12	0.13	0.13	0.14
Milton Keynes	0.05	0.05	0.05	0.05	0.05	0.05	0.05
Oxfordshire	0.77	0.81	0.82	0.84	0.86	0.87	0.89
Surrey	0.92	1.00	1.04	1.09	1.14	1.16	1.19
West Sussex	0.99	1.07	1.11	1.15	1.21	1.23	1.26
SE Region	**9.22**	**9.97**	**10.37**	**10.78**	**11.29**	**11.48**	**11.78**

Source: Adapted from ERM, 2005. Update of the Model for Future Waste Management Capacity Needs in the South East

Table 3.6 C&D Arisings in the SE Region, 2006-2025 (million tonnes) (3 sig. figs)

	2006	2010	2013	2016	2020	2022	2025
Berkshire	1.80	1.80	1.80	1.80	1.80	1.80	1.80
Buckinghamshire	0.71	0.71	0.71	0.71	0.71	0.71	0.71
East Sussex	0.37	0.37	0.37	0.37	0.37	0.37	0.37
Hampshire	2.15	2.15	2.15	2.15	2.15	2.15	2.15
Isle of Wight	0.17	0.17	0.17	0.17	0.17	0.17	0.17
Kent	2.60	2.60	2.60	2.60	2.60	2.60	2.60
Medway	0.33	0.33	0.33	0.33	0.33	0.33	0.33
Milton Keynes	0.06	0.06	0.06	0.06	0.06	0.06	0.06
Oxfordshire	0.75	0.75	0.75	0.75	0.75	0.75	0.75
Surrey	1.88	1.88	1.88	1.88	1.88	1.88	1.88
West Sussex	1.30	1.30	1.30	1.30	1.30	1.30	1.30
SE Region	**12.13**	**12.13**	**12.13**	**12.13**	**12.13**	**12.13**	**12.13**

Source: Adapted from ERM, 2005. Update of the Model for Future Waste Management Capacity Needs in the South East

Hazardous waste was not included in ERM's previous modelling. We have added data, where possible, relating to hazardous waste as part of this study. Arisings data was obtained from the EA's hazardous waste interrogator (1) for the quantity produced in each WPA area. This data represents arisings in 2003. As such, it is for 'Special Waste' before this was reclassified and the Hazardous Waste Regulations were introduced. *Table* 3.7 shows the data from the EA interrogator by sub-region.

Section 3.1.1 below details the changes in hazardous waste legislation and other issues relevant to this waste stream.

(1) www. environment-agency.gov.uk/apps/wastesurvey2/

Table 3.7 ***Hazardous Waste Arisings in 2003 (million tonnes)***

	Total hazardous waste arisings
Berkshire	0.0358
Buckinghamshire	0.0107
East Sussex	0.0218
Hampshire	0.1579
Isle of Wight	0.0026
Kent	0.0987
Medway	0.0142
Milton Keynes	0.0099
Oxfordshire	0.0467
Surrey	0.0212
West Sussex	0.0237
SE Region	0.4436

Note: Numbers have been rounded to four significant figures.

Hazardous waste was assumed to grow at the same rate as C&I waste. The rationale for this assumption is that the majority of hazardous wastes will come from this sector. The increase in the total growth in C&I waste will therefore be mirrored in the growth of hazardous wastes. The prudent approach is to assume that this is the same as it is the worst case scenario compared with assuming a decrease in hazardous waste growth from new legislative changes. The growth rate assumes: a 3.3% increase from 2003 to 2005; a 2.5% increase from 2006 until 2010; a 2% until 2015; a 1.5% until 2020; and a 1% until 2025. The projected quantity of hazardous waste arisings for each sub-region is shown in *Table 3.8*.

Table 3.8 ***Hazardous Waste Arisings in the SE Region, 2006-2025 (million tonnes)***

	2006	2010	2013	2016	2020	2022	2025
Berkshire	0.039	0.043	0.046	0.048	0.051	0.052	0.054
Buckinghamshire	0.012	0.013	0.014	0.014	0.015	0.016	0.016
East Sussex	0.024	0.026	0.028	0.030	0.031	0.032	0.033
Hampshire	0.173	0.191	0.202	0.214	0.227	0.231	0.238
Isle of Wight	0.003	0.003	0.003	0.004	0.004	0.004	0.004
Kent	0.108	0.119	0.126	0.134	0.142	0.145	0.149
Medway	0.016	0.017	0.018	0.019	0.021	0.021	0.022
Milton Keynes	0.011	0.012	0.013	0.013	0.014	0.015	0.015
Oxfordshire	0.051	0.056	0.060	0.063	0.067	0.068	0.071
Surrey	0.023	0.026	0.027	0.029	0.030	0.031	0.032
West Sussex	0.026	0.029	0.030	0.032	0.034	0.035	0.036
SE Region	**0.485**	**0.535**	**0.568**	**0.600**	**0.637**	**0.650**	**0.669**

3.1.1 Hazardous Waste Regulatory Changes

The Hazardous Waste (England and Wales) Regulations 2005 can be viewed at www.opsi.gov.uk/si/si2005/20050894.htm

The List of Waste (England) Regulations 2005 can be viewed at www.opsi.gov.uk/si/si2005/20050895.htm

There are a number of issues specific to hazardous wastes that are affecting current arisings and future capacity needs. These are summarised below so that the remainder of the *Section* can be read with this context in mind.

Box 3.1 Changes to Regulation of Hazardous Waste Landfills

Historically the UK has practiced what is known as co-disposal whereby special wastes have been landfilled together with non-special wastes. On 16 July 2004, the co-disposal of hazardous waste with non-hazardous wastes ceased as a result of the Landfill Regulations 2002. Currently, if hazardous wastes are sent to landfill they must to be sent to a site that deals solely with hazardous wastes or to one with an appropriate hazardous waste cell.

All landfills are now classified as one of the following:

- Hazardous;
- Non-Hazardous;
- Non-Hazardous with Stable Non-Reactive Hazardous Waste Cell (SNRHC); or
- Inert.

Non-hazardous landfills with SNRHCs can accept stable non-reactive hazardous wastes in a separately constructed area. These sites will continue to accept asbestos waste as well as other stabilised hazardous wastes, such as treatment residues.

From 16 July 2005, all treated hazardous waste accepted into hazardous landfills or special 'cells' of a non-hazardous landfill site must comply with the full Waste Acceptance Criteria (WAC), *ie* require pre-treatment, as required by the Landfill Regulations 2002.

The changes outlined in *Box 3.1* have had a significant impact on hazardous waste management capacity in the South East of England such that, at the time of writing, there are limited numbers of hazardous waste landfills in the region.

Box 3.2 Hazardous Waste Regulations and List of Wastes Regulations

Two sets of Regulations were implemented on 16 July 2005:

- The *Hazardous Waste (England and Wales) Regulations 2005*; and
- The *List of Wastes (England) Regulations 2005*.

The Hazardous Waste Regulations:

- require producers of hazardous waste to notify their premises to the EA;
- end the requirement to pre-notify the consignment of wastes to the EA as currently required under the Special Waste Regulations;
- ban the mixing of hazardous waste and require their separate storage on site;
- provide cradle-to-grave documentation for the movement of hazardous waste; and
- require consignees to keep thorough records of hazardous waste and provide the Environment Agency with quarterly disposal and recovery information.

The *List of Wastes (England) Regulations 2005* introduced the revised European Waste Catalogue (EWC). This changed the current definition of 'special waste' to bring it into line with the European definition of hazardous waste. The change in classification has resulted in more waste being defined as hazardous waste, than under the previous definition of special waste.

The EWC lists all wastes, whether hazardous or not. Wastes with a hazardous property are highlighted as either Absolute or Mirror entries. A waste given as an absolute entry means this will be in all circumstances a hazardous waste regardless of any threshold concentrations, whereas a mirror entry will be a hazardous waste if dangerous substances are present above threshold concentrations.

Box 3.3 summarises the other pieces of legislation that are likely to have an effect on the amount of hazardous wastes produced and hence on processing technologies and capacities.

Box 3.3 Other Regulatory Developments Impacting on Hazardous Waste

Waste Electrical and Electronic Equipment (WEEE) Directive

The UK WEEE Regulations came into force on 2 January 2007. The Regulations sets targets and requirements for the collection, treatment and recycling of WEEE. Waste electrical and electronic equipment is classed according to 10 categories. It covers all types, shapes and sizes of equipment from electric toothbrushes to medical devices found in hospitals to vending machines. It is also makes distinctions between household WEEE and business WEEE and 'historic' and 'new' WEEE.

The costs for collection, treatment, recycling and disposal are to be borne by the producers (broadly speaking, the manufacturers, importers and retailers) of the EEE, hence it is a "Producer Responsibility" Directive.

For household WEEE, the UK is required to ensure that there is an adequate network of collection points for householders to separate their WEEE from other waste. There is no obligation on consumers to separate WEEE, they are encouraged to do so. There are no direct legal obligations placed on local authorities, although they are encouraged to establish their CA sites or transfer stations as designated collection facilities (DCFs). Producers are required to finance the collection of household WEEE from DCFs along with subsequent treatment and recycling.

Distributors or 'retailers' of household equipment also have legal obligations. They must either offer free takeback of WEEE when they sell a new item of EEE or pay into the 'Distributor Takeback Scheme' which subsequently finances the costs of establishing the DCFs.

For business WEEE, producers are required to ensure they have a system in place to ensure their equipment is treated, recycled and recovered when their customers discard the equipment (even if it is sometime later). In the case of historic WEEE, producers must finance the treatment and recycling costs only if the customer is buying a new similar product. Producers must finance the costs of treating and recycling all new WEEE. It is important to note that a producer can contractually oblige their customers to meet the costs in both cases.

Treatment and Recycling of WEEE
All separately collected household WEEE and all business WEEE will in future be required to be treated to new standards and meet specified recycling and recovery targets. The recycling and recovery targets are category specific (eg Category 1. large household domestic appliances must be recovered to a level of 80% by average weight of appliance, with 75% being attributed to reuse or recycling of components, materials or substances).

Treatment requirements include removal of certain components and materials from WEEE (eg mercury containing components, plastics containing brominated flame retardants, cathode ray tubes) and then in some cases specialist treatment of the removed component (eg removal of fluorescent coating from cathode ray tubes). Guidance is available on interpretation of these requirements. The removal of materials or components does not necessarily need to take place before the shredding process.

Restriction of Hazardous Substances (RoHS) Directive

The RoHS Directive uses the same scope as the WEEE Directive but prohibits the existence of six hazardous substances in new EEE placed onto the EU market from 1 July 2006. The six substances are: lead; cadmium; mercury; hexavalent chromium; PBB; and PBDE (the last two being brominated flame retardants). EEE that does not meet the RoHS Directive's requirements as of 1 July 2006 cannot be sold within the EU.

As a result of this legislation, the quantities of these substances entering the waste stream will reduce over the coming years. The legislation allows for other substances to be added in the

future to the initial list of six, as well as allowing for certain exemptions.

End of Life Vehicles (ELV) Directive

The End of Life Vehicles (ELV) Directive has the objective of reducing waste from ELVs and improving levels of recycling and reuse. It aims to minimise the impact of such vehicles on the environment, eg by reducing the amount of waste going to landfill from vehicles reaching the end of their life by:

- introducing controls on the 'scrapping' of ELVs (by restricting treatment to authorised facilities);
- implementing new environmental treatment standards; and
- setting rising re-use, recycling and recovery targets.

The targets require 85% of ELVs to be re-used or recovered (80% re-used or recycled) by January 2006, and 95% of all ELVs to be re-used or recovered (85% re-used or recycled) by 2015.

The ELV Directive encourages the limitation of hazardous materials in new vehicles in order to reduce the amount of hazardous waste eventually produced and to ease recycling. It will divert hazardous elements from mixed waste management disposal to targeted recycling and treatment. Manufacturers are already seeking to utilise materials that are easier to recycle and there will be a long-term downward trend in unit quantities of hazardous material being used in new vehicles and consequently arising in ELVs.

Batteries Directive

The European Commission has drawn up a proposal which will require the collection and recycling of all types of batteries. The Batteries Directive will result in an increase in the number of battery waste streams and the quantities segregated for treatment/disposal. The new Directive will ban the use of mercury in batteries immediately: all batteries containing more than 5ppm of cadmium by weight are scheduled to be banned by January 2008.

The current timeframe is that the Directive will be ratified in June 2006, meaning that the Directive will be transposed into national law by January 2008 with the first target of 25% collection of all waste batteries within the scope being set for 2012.

As a result of this Producer Responsibility legislation, specialised treatment, recycling and disposal facilities will be needed to handle the increase in the amount of separately collected hazardous battery waste. Currently there is just one battery reprocessing plant in the UK, G & P Batteries in the West Midlands, which has the capacity to handle up to 600 tonnes per annum. The majority of the UK's waste batteries are currently exported to other EU member states for reprocessing and recycling. Further facilities in the UK are planned by G & P and other companies are likely to enter the market should it prove financially viable.

Waste Incineration Directive (WID)

The Waste Incineration Directive (WID) updates the requirements of the 1989 Municipal Waste Incineration Directives and, merging them with the 1994 Hazardous Waste Incineration Directive, consolidates new and existing incineration controls into a single piece of European legislation. WID also upgrades technical requirements to reflect technological advances, and broadens the scope of the waste incineration regime to cover wastes that were not previously regulated.

WID is likely to necessitate the expensive upgrading of some incinerators and plants burning wastes as fuel. The impact of the regime on market economics may inhibit some plants from burning wastes such as waste oil, raising the possibility of an increase in the illegal disposal of waste.

With limited incentives for oil recycling, the impact of the Directive is likely to be to increase the amount of waste oil entering the waste management system, at the same time as reducing the number of disposal sites. Off site treatment options for waste oils, other than recycling, include blending to make cement kiln or power station fuels.

As a result of the Directive virgin fuel sources may replace waste oils. This will result in waste oil being primarily used when firing up coal fired power stations (where financially viable) and cement kilns. Producers of waste oil may in the future have to pay for its disposal, where as at present it has a positive value as a fuel.

Solvent Emission Directive (SED)
The SED limits the emissions of Volatile Organic Compounds (VOCs) due to the use of organic solvents by certain sectors. The aim is to play a part in reducing the release of more harmful VOCs and reducing ozone pollution in the EU.

Levels of organic solvents used will drop in the period 2003 – 2007, the extent will depend on how producers respond to the pressures on VOC emissions brought about by the SED. Existing installations have until 31 October 2007 to meet the requirements of the Directive. New installations must meet the requirements immediately.

Pollution Prevention and Control (PPC) Regulations
The PPC Regulations make provision for the permits to include waste minimisation and opportunities for re-use on site. This should lead to a reduction in the quantities of hazardous waste generated.

For those waste handling companies operating facilities covered by PPC, the rigorous permitting process and associated cost implications (through increased process management and engineering), will result in some re-evaluation of the economic benefits of running such facilities. In a market where margins are low, this may lead to a contraction in capacity at a time when a net increase is required.

Asbestos Regulations
The Control of Asbestos at Work Regulations 2002 introduces a duty to proactively manage asbestos with effect from 21 May 2004.

Asbestos is commonly found in sprayed coatings and loose packing (such as fire breaks, partitions and ceiling panels or tiles), lagging around pipes and boilers and insulation board. Although the Regulations can be anticipated to have their most substantial impact on urban commercial and industrial premises, it is also not uncommon to find asbestos in and around farm buildings. It is important to remember that the Regulations impose a duty only to manage asbestos – not necessarily to remove all asbestos.

Landfill Tax
The UK Government has set a landfill tax escalator in place which will increase by £3 per year the amount paid on every tonne of waste sent to landfill from £21 in 2006 to £33 in 2010. The Government hopes that this fiscal tool will encourage the use of alternative methods for treatment and disposal to reduce the amount of waste going to landfill.

3.2 DIVERSION TARGETS

The wastes arising in the SE Region are subject to diversion targets. It is these target levels of wastes arising that are compared to the available capacity in the region in order to calculate the capacity gap. This method allows the relevant waste types to be compared with the appropriate treatment facility.

The targets used in the model are the appropriate recycling and composting targets from the *South East Plan* and LATS targets for MSW and C&I waste, as

shown in *Table 3.9* and *Table 3.10*. The LATS allowance restricts the total tonnage of biodegradable municipal waste (BMW) that can be sent to landfill.

Table 3.9 Recycling and Composting Targets by Waste Stream (South East Plan)

Year	Recycling and composting targets %		
	MSW	**C&I**	**C&D**
2010	40%	50%	50%
2015	50%	55%	50%
2020	55%	60%	60%
2025	60%	65%	60%

Note: The model assumes a linear change in the targets between the years shown.

Table 3.10 LATS Allowances (million tonnes)

	Base	2005/06	2006/07	2007/08	2008/09	Target 2010	2010/11	2011/12	Target 2013	2013/14	2014/15	2015/16	2016/17	2017/18	2018/19	Target 2020
Berkshire	0.281	0.271	0.257	0.238	0.215	0.186	0.165	0.145	0.124	0.119	0.113	0.108	0.103	0.097	0.092	0.087
Buckinghamshire	0.137	0.133	0.128	0.121	0.112	0.102	0.091	0.079	0.068	0.065	0.062	0.059	0.056	0.053	0.050	0.048
East Sussex	0.124	0.122	0.118	0.114	0.109	0.102	0.091	0.079	0.068	0.065	0.062	0.059	0.056	0.053	0.050	0.048
Hampshire	0.372	0.362	0.347	0.326	0.301	0.270	0.240	0.210	0.180	0.172	0.165	0.157	0.149	0.141	0.134	0.126
Isle of Wight	0.035	0.034	0.034	0.033	0.032	0.030	0.027	0.023	0.020	0.019	0.018	0.018	0.017	0.016	0.015	0.014
Kent	0.428	0.414	0.393	0.366	0.331	0.290	0.258	0.226	0.193	0.185	0.177	0.168	0.160	0.152	0.144	0.135
Medway	0.081	0.078	0.074	0.068	0.061	0.053	0.047	0.041	0.035	0.034	0.032	0.031	0.029	0.028	0.026	0.025
Milton Keynes	0.068	0.066	0.062	0.058	0.052	0.045	0.040	0.035	0.030	0.029	0.027	0.026	0.025	0.023	0.022	0.021
Oxfordshire	0.179	0.173	0.165	0.153	0.139	0.122	0.108	0.095	0.081	0.078	0.074	0.071	0.067	0.064	0.060	0.057
Surrey	0.325	0.316	0.301	0.282	0.258	0.229	0.204	0.178	0.153	0.146	0.140	0.133	0.126	0.120	0.113	0.107
West Sussex	0.266	0.257	0.244	0.227	0.205	0.180	0.160	0.140	0.120	0.115	0.109	0.104	0.099	0.094	0.089	0.084
SE Region	2.295	2.226	2.123	1.986	1.815	1.609	1.430	1.251	1.072	1.026	0.980	0.934	0.888	0.842	0.796	0.750

Note: ERM has assumed that the LATS allowance remains constant at the 2020 value for the years beyond 2020 to 2025

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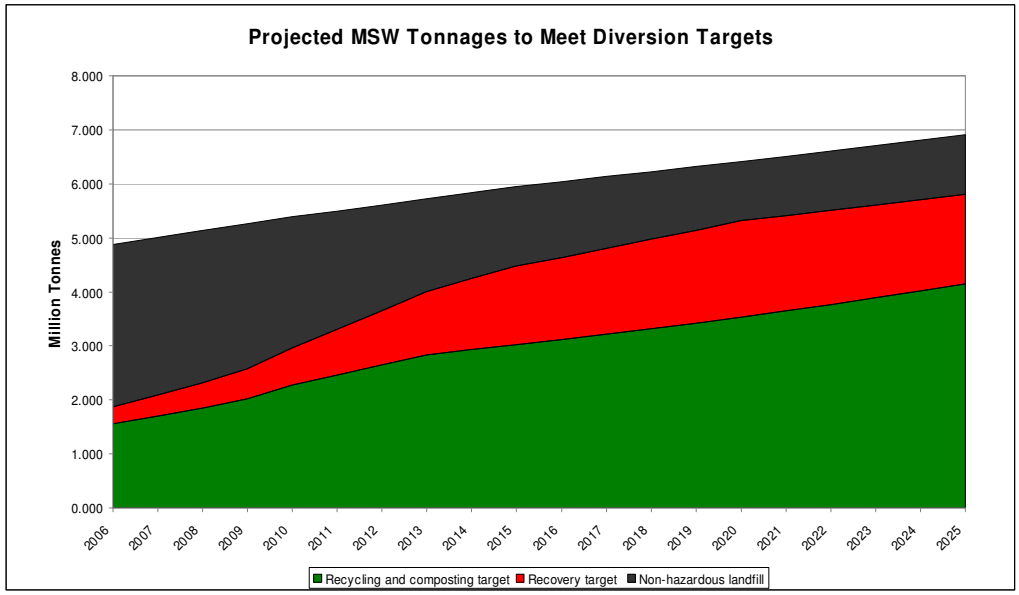
3.2.1 *MSW Targets*

The model initially gives priority to achieving the regional MSW diversion targets. Once these targets are achieved, the model then gives priority to achieving the LATS targets. The model assumes that the LATS targets must be met for BMW waste sent direct to landfill, it does not consider the effect on LATS of BMW arising from residues.

If there is a LATS shortfall (ie insufficient allowance to landfill non-diverted waste), then the model assumes that this extra waste is recycled/composted and recovered at the same ratio as the regional targets for recycling/composting and recovery for that year. Where there is a LATS surplus (ie more can be landfilled than is needed to meet regional diversion targets), then the model assumes that a lower amount that the LATS target is landfilled. Consequently, there may be a certain level of opportunity to trade or to reserve the LATS surplus in future years. *Figure 3.1* shows the projected tonnages of MSW to meet the South East Plan diversion targets and the LATS targets.

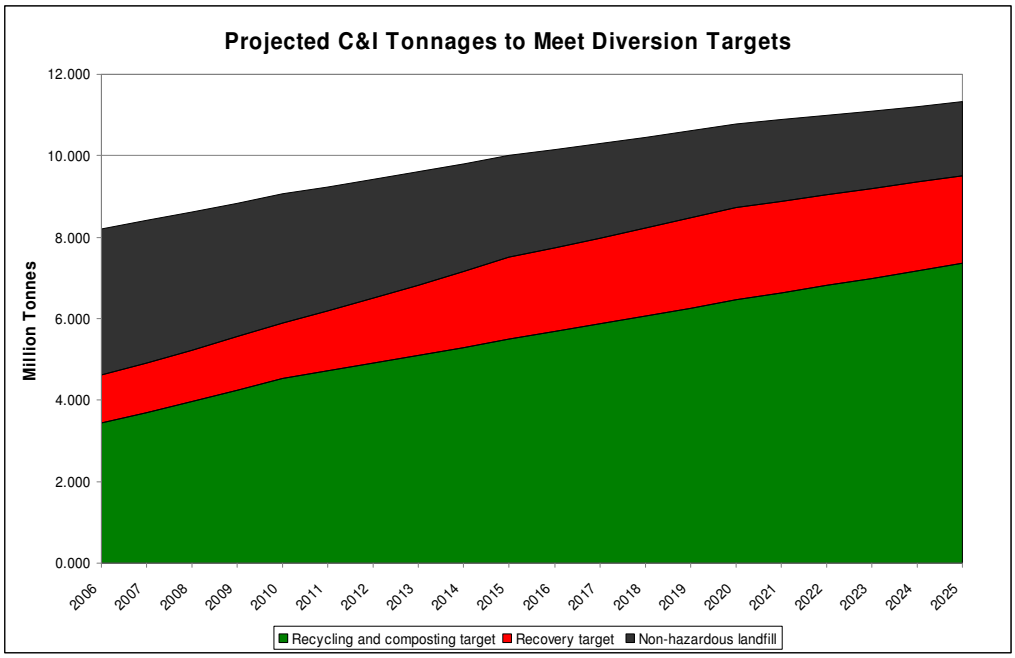
Figure 3.1 MSW to be Managed in SE Region to Meet South East Plan and LATS Targets



3.2.2 *C&I Targets*

There are no national targets for the landfilling of C&I wastes now that the 2005 target in *Waste Strategy 2000* has passed. Consequently, the model gives priority to achieving the regional C&I diversion targets for recycling/composting and recovery. Once these targets are achieved, the model assumes that all other C&I waste is sent to non-hazardous landfill. *Figure 3.2* shows the projected tonnages of C&I waste to meet the South East Plan diversion targets.

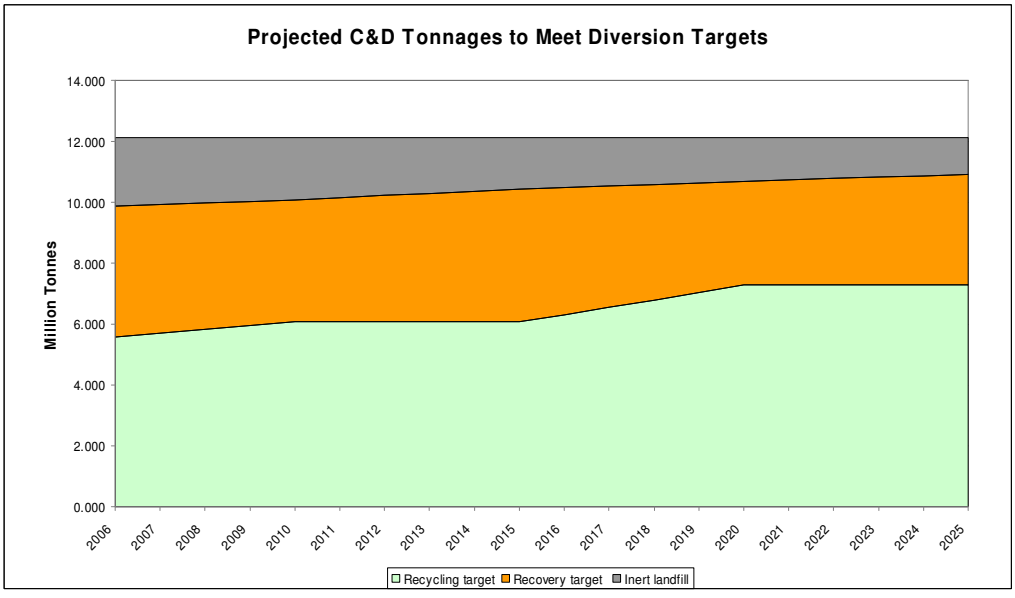
Figure 3.2 *C&I Waste MSW to be Managed in SE Region to Meet South East Plan*



3.2.3 *C&D Targets*

As with C&I waste, there are no national targets for the landfilling of C&D wastes. Therefore, the model gives priority to achieving the regional C&D diversion targets for recycling and recovery, and all other waste sent to inert landfill. *Figure 3.3* shows the projected tonnages of C&I waste to meet the South East Plan diversion targets.

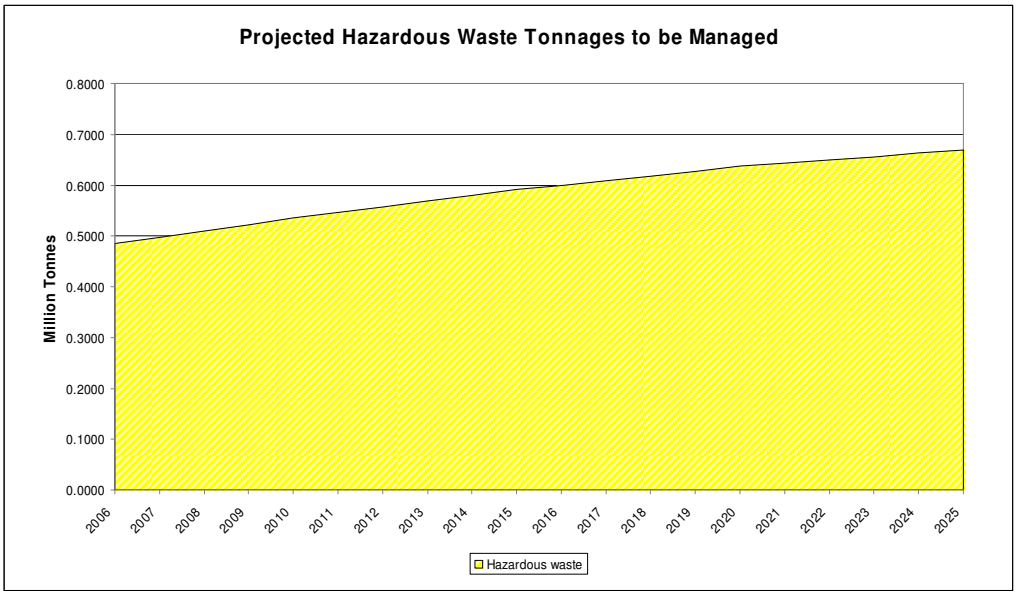
Figure 3.3 *C&D Waste MSW to be Managed in the SE Region to Meet the South East Plan*



3.2.4 Hazardous Waste Targets

In *Section 3.1.1* we detailed recent regulatory changes relevant to hazardous waste. However, there are no targets for the landfilling or the diversion of hazardous wastes. *Figure 3.4* shows the projected hazardous waste arisings in the SE Region.

Figure 3.4 Projected Hazardous Waste to be Managed in the SE Region



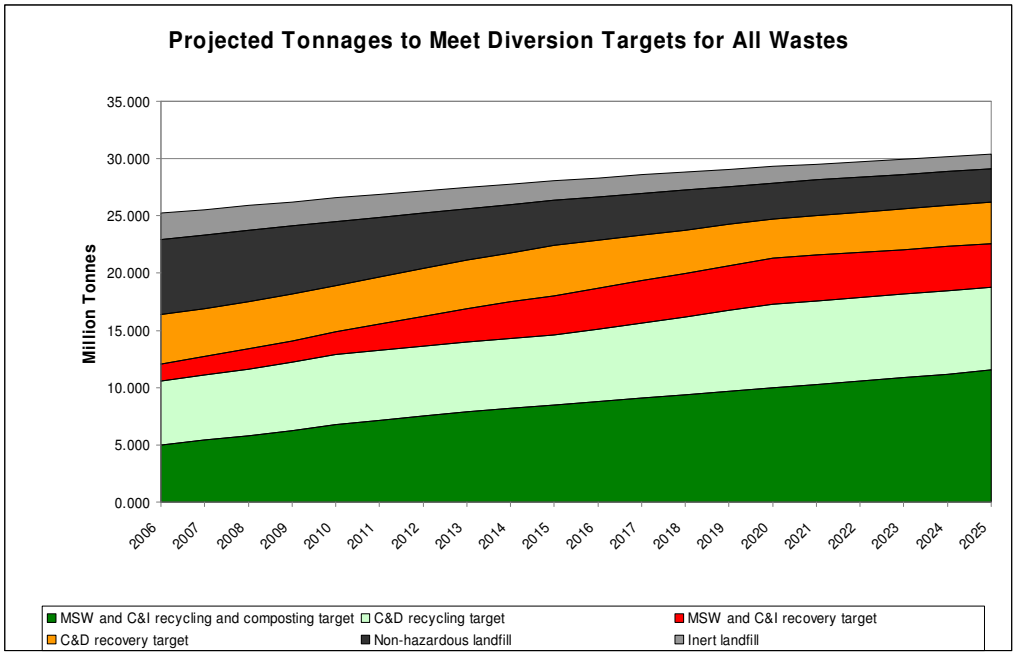
3.3 SUMMARY OF WASTES TO BE MANAGED BY DESTINATION

Table 3.11 presents a summary of the type and the amount of waste to be sent to each destination: recycling/composting; recover; and landfill. Similarly, *Figure 3.5* shows the amount and type of waste to be sent to each destination to meet the targets from the South East Plan and LATS.

Table 3.11 Wastes to be Managed in the SE Region by Destination and Waste Type (3 sig. figs)

		2006	2010	2013	2016	2020	2022	2025
Recycling and composting								
	MSW	1.56	2.28	2.83	3.12	3.53	3.77	4.15
	C&I	3.45	4.53	5.09	5.68	6.46	6.81	7.36
Recycling								
	C&D	5.58	6.07	6.07	6.31	7.28	7.28	7.28
Recovery								
	MSW	0.31	0.68	1.18	1.52	1.80	1.75	1.66
	C&I	1.17	1.36	1.73	2.05	2.26	2.22	2.15
	C&D	4.30	4.00	4.22	4.17	3.40	3.50	3.64
Non Haz Landfill								
	MSW	3.71	2.44	1.71	1.40	1.09	1.10	1.10
	C&I	3.59	3.17	2.79	2.42	2.05	1.96	1.81
Inert Landfill								
	C&D	2.26	2.06	1.84	1.65	1.46	1.36	1.21
Total MSW		5.58	5.40	5.72	6.04	6.42	6.62	6.91
Total C&I		8.21	9.06	9.61	10.15	10.77	10.99	11.32
Total C&D		12.14	12.13	12.13	12.13	12.14	12.13	12.13
Grand total		26.67	27.85	28.5	29.16	29.98	30.34	30.91

Figure 3.5 Wastes to be Managed in the SE Region by Destination and Waste Type (excluding Hazardous Waste)



3.4 ASSUMPTIONS AND LIMITATIONS

Within the model, there were a number of assumptions that needed to be made. These were based, where possible, on existing data or relevant examples.

3.4.1 LATS Allowance

The model assumes that the LATS targets are only met by BMW waste that is sent direct to landfill. The model does not consider the effect on LATS of BMW arising from residues after MSW recycling or composting. For BMW sent direct to landfill, we have assumed that MSW is composed of 68% BMW. For the BMW fraction contained in residues from the recycling and composting of MSW, we have assumed that the BMW fraction is 0%.

We recommend that this assumption relating to the BMW fraction in residues is considered further, based upon the current facilities in operation within the SE Region (ie the accuracy of our assumptions will depend on the type of diversion technology that is employed: incineration; MBT with RDF; and MBT with stabilate to landfill etc.).

3.4.2 Imports of MSW and C&I from London into the SE Region

The South East Plan provides data that is aggregated for Kent and Medway. We needed to split this data for London imports into the SE Region for Kent and Medway. Their combined apportionment is estimated at 12.2% of total imports from London in the South East Plan. We have assumed that 11.2% is apportioned to Kent and 1.0% to Medway, based upon the relative level of MSW and C&I arisings in each sub-region.

3.4.3 Waste Densities

This model assumes that non hazardous waste and hazardous wastes both have a bulk density of one tonne per cubic metre. The bulk density for inert wastes is assumed to be two tonnes per cubic metre. To show this in the model, all inert landfill voidspace that was provided in cubic metres was doubled to give the amount of tonnes that can be landfilled in that void.

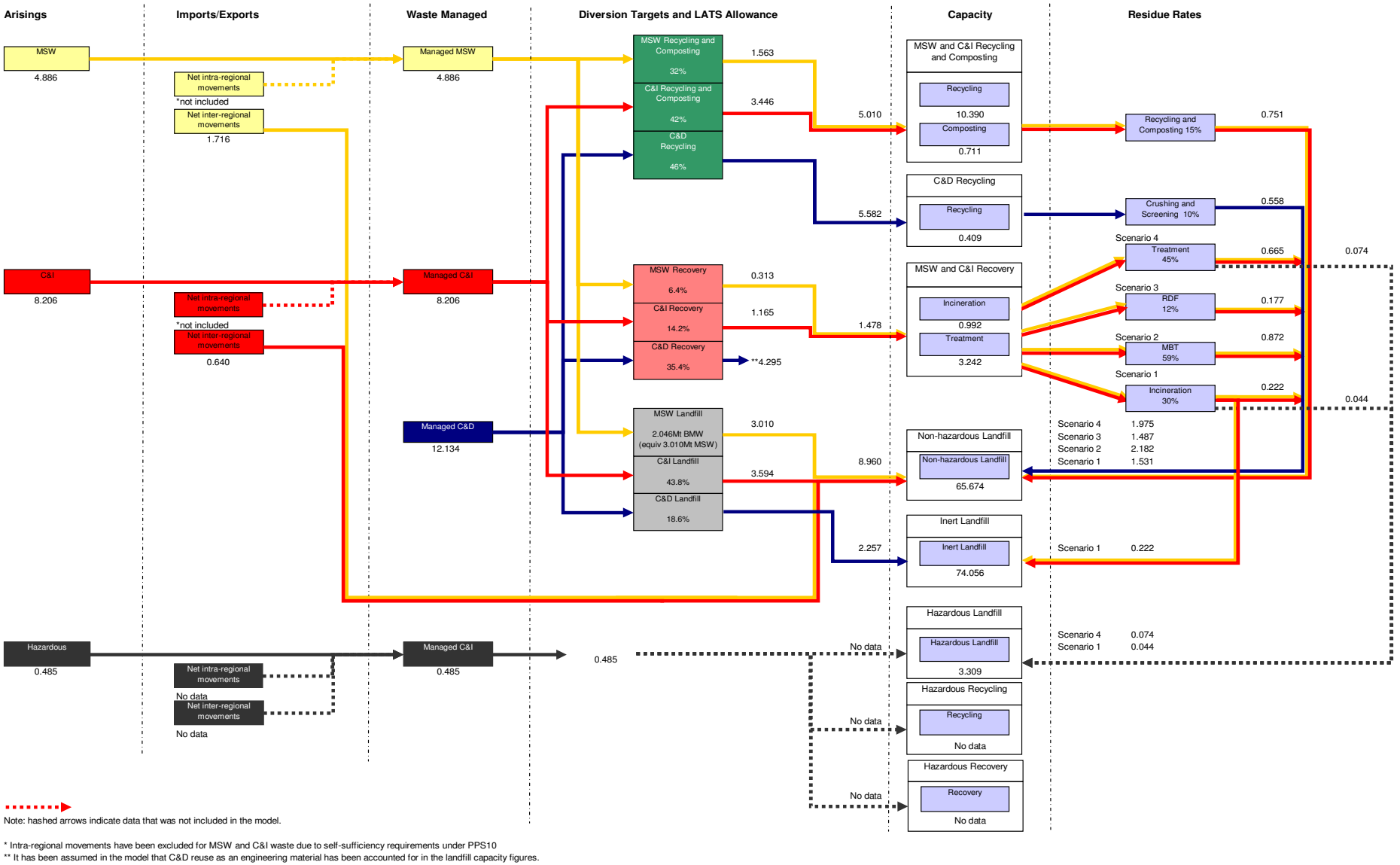
In order to be able to understand the structure of the model and the manner in which it generates the results for the SE Region, we have provided a schematic diagram of the model structure, as shown in *Figure 4.1*.

Each waste stream is represented by a separate colour. The model should be viewed by following each waste stream from left to right. The model follows a step by step process to calculate the following:

- waste arisings;
- waste import and exports;
- managed waste;
- waste diversion targets and LATS allowance;
- waste treatment capacity; and
- waste residues.

The dashed lines in the model indicate where these waste streams are not included due to a lack of data.

Figure 4.1 Capacity and Need Model Structure – Example Data for the SE Region in 2006 (million tonnes)



5 CAPACITY GAP

5.1 INTRODUCTION

The model produces a large number of results, all of which can be found in *Annex B*. This section highlights and discusses the main findings of these results.

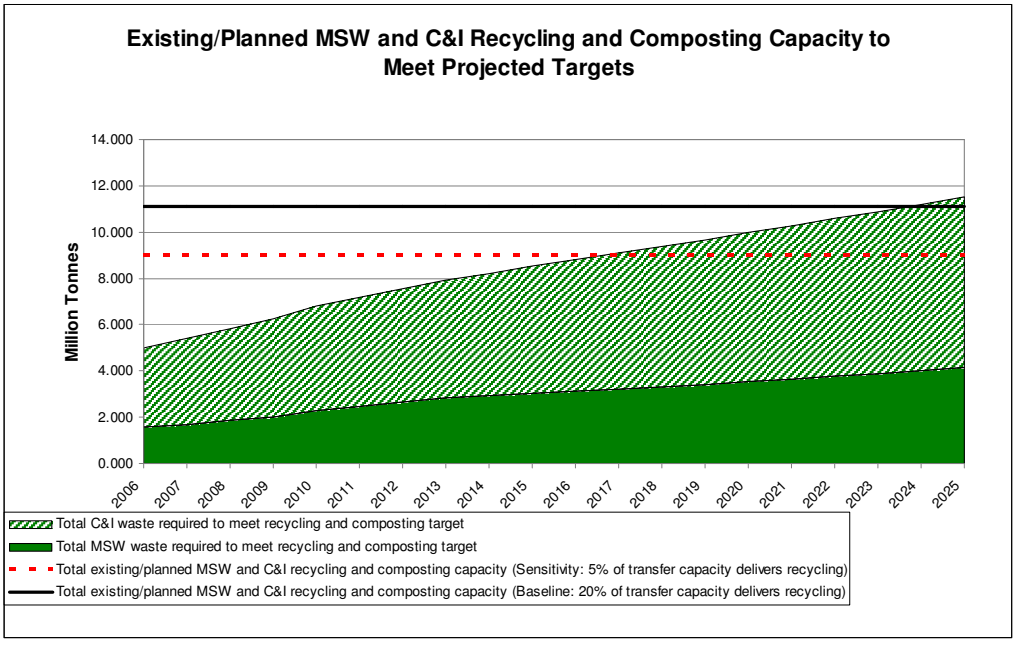
5.2 SCENARIO 1 – RESULTS

This section will look at the results on a regional level. Sub-regional results can be found in *Annex B*.

5.2.1 Recycling, Composting and Recovery Capacity Gap Calculations

When the regional recycling and composting capacity is compared to the forecast arisings, the capacity is forecast to be exhausted by 2023/24. When using an assumption of 5% of transfer capacity being for recycling (1), this time horizon is brought forward to 2016/17. By 2024, just under an extra 0.1 million tonnes of recycling capacity will be required, and this increases to 0.4 million tonnes by 2025.

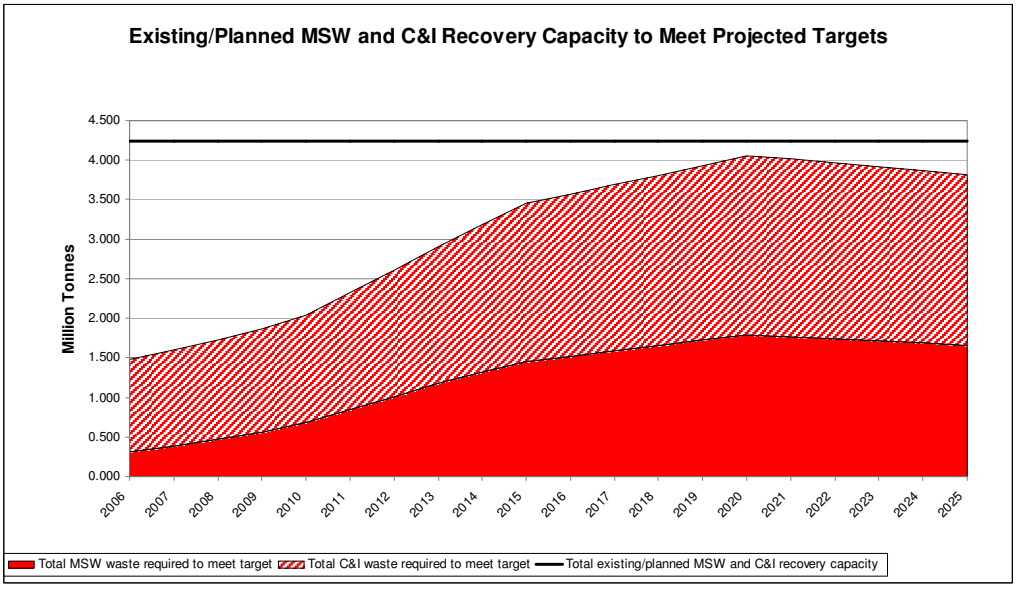
Figure 5.1 ***Total South East Recycling and Composting Capacity vs forecast MSW and C&I Recycling and Composting Arisings Projections (Scenario 1)***



(1) see assumptions section

The same comparison has been made between the amount of waste forecast to arise and the proportion of this needed to be recovered to meet recovery targets, against recovery capacity in the South East. This comparison shows that the South East should have sufficient recovery capacity beyond 2025.

Figure 5.2 ***Total South East Recovery Capacity vs forecast MSW and C&I Recovery Arisings Projections (Scenario 1)***



C&D waste arisings forecast to be sent to recycling, plus the bottom ash from incineration, has been compared to C&D recycling capacity. *Figure 5.3* shows that there is a significant shortfall in recycling capacity for C&D wastes. This shortfall can be partly explained by the fact that there are sites exempt from Environment Agency licensing and these may not have been picked up by the WPAs in their surveys. In addition, some C&D recycling occurs on-site at the source and therefore further capacity to deal with this waste would not be required.

Figure 5.4 shows the C&D recovery capacity is also lacking in comparison to the forecast arisings for this destination for this waste stream.

Figure 5.3 *Total South East C&D Recycling Capacity vs forecast C&D Recycling Arisings Projections (Scenario 1)*

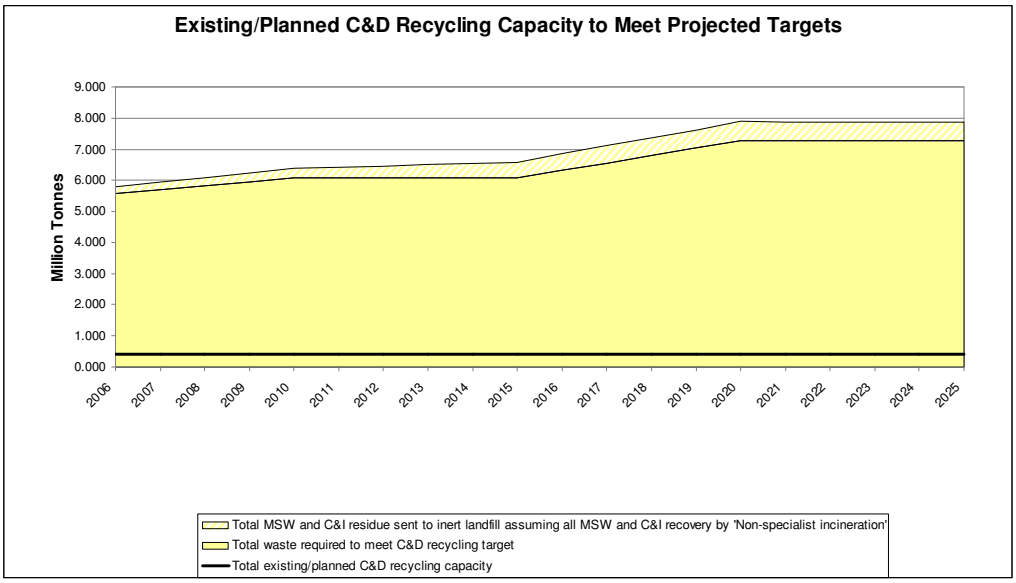
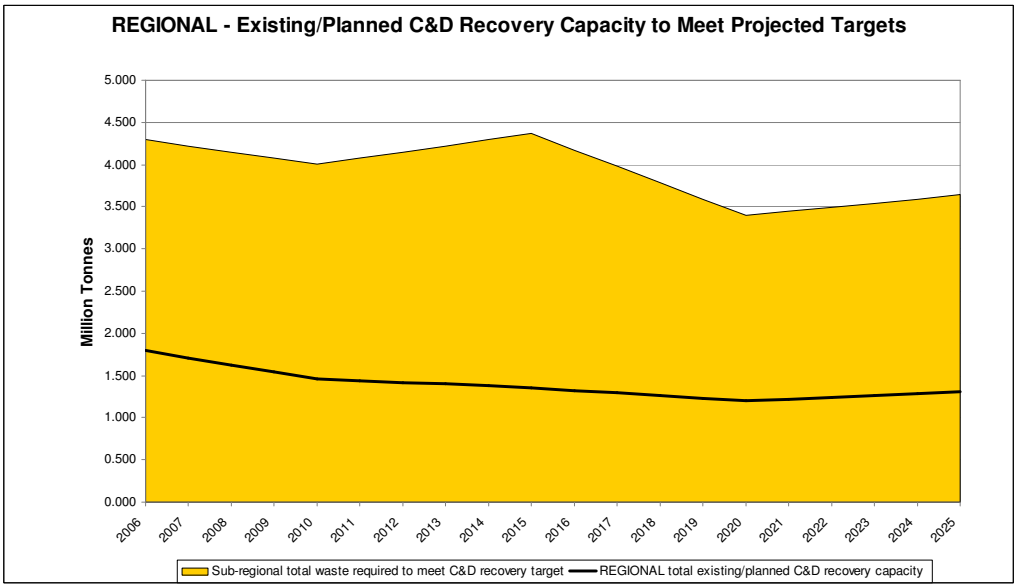


Figure 5.4 *Total South East C&D Recovery Capacity vs forecast C&D Recovery Arisings Projections (Scenario 1)*



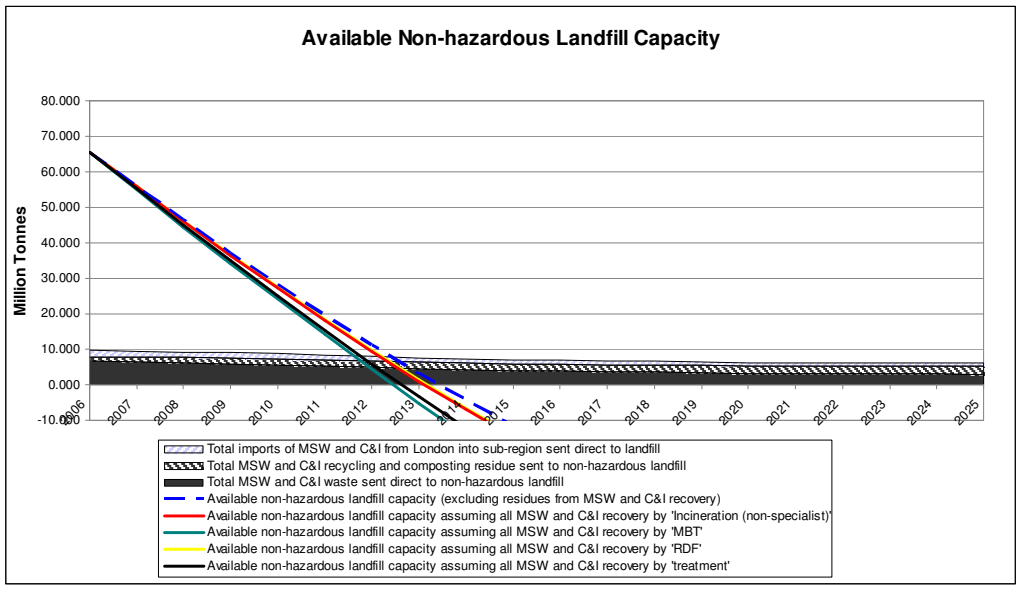
5.2.2 Landfill Capacity Gap Calculations

Landfill comparisons have been carried out showing the decrease in voidspace over time. Several scenarios are included relating to the type of recovery/ treatment that is carried out to wastes prior to the landfilling of residues. These scenarios include the assumptions that:

- all wastes designated as going to 'recovery' are sent to MBT facilities and therefore residues are assumed at the rate expressed in *Table 2.9*;
- all wastes designated as going to 'recovery' are sent to facilities producing RDF and therefore residues are assumed at the rate expressed in *Table 2.9*;
- all wastes designated as going to 'recovery' are sent to incineration facilities and therefore residues are assumed at the rate expressed in *Table 2.9;* and
- all wastes designated as going to 'recovery' are sent to 'treatment' facilities which is the average of the rates for all recovery facilities expressed in *Table 2.9*.

Figure 5.5 shows that under the best case scenario (assuming no residue from treatment), landfill capacity will last until 2012/2013. The range of scenarios referring to treatment residues gives slightly different results in terms of time/voidspace remaining. They range from an exhaustion date of 2012 to 2013/14. The worst case scenario (MBT treatment residues to landfill) requires over 70 million tonnes worth of landfill voidspace by 2021. The best case still requires a further 51 million tonnes of capacity by 2021.

Figure 5.5 ***MSW and C&I Wastes to Landfill vs Non Hazardous Landfill Voidspace in the South East of England (Scenario 1)***



The comparison of C&D wastes to inert landfill was also carried out and the results presented in *Figure 5.6* indicates that there is enough inert voidspace to meet the demand for C&D wastes direct to landfill, even when residues from incineration are included (if all wastes indicated as requiring treatment are sent to incinerators). It is likely that in reality the actual rate of decline in capacity will be in-between these two scenarios, as some waste will be incinerated, but it is unlikely that all will be.

Figure 5.6 *C&D wastes to Landfilll vs Inert Landfill Voidspace in the South East of England (Scenario 1)*

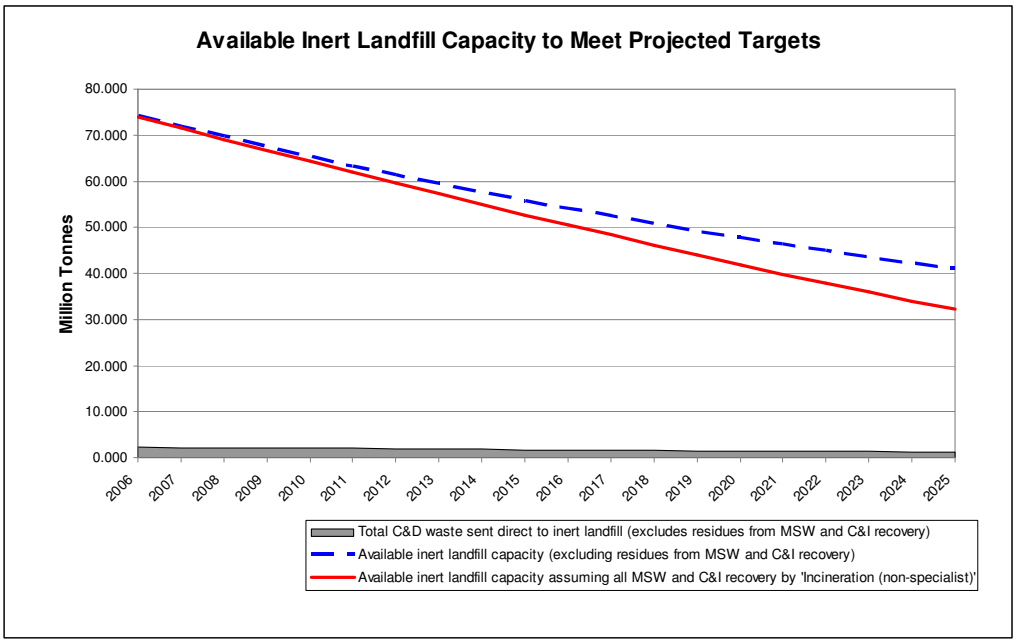


Table 5.1 *LATS Shortfall*

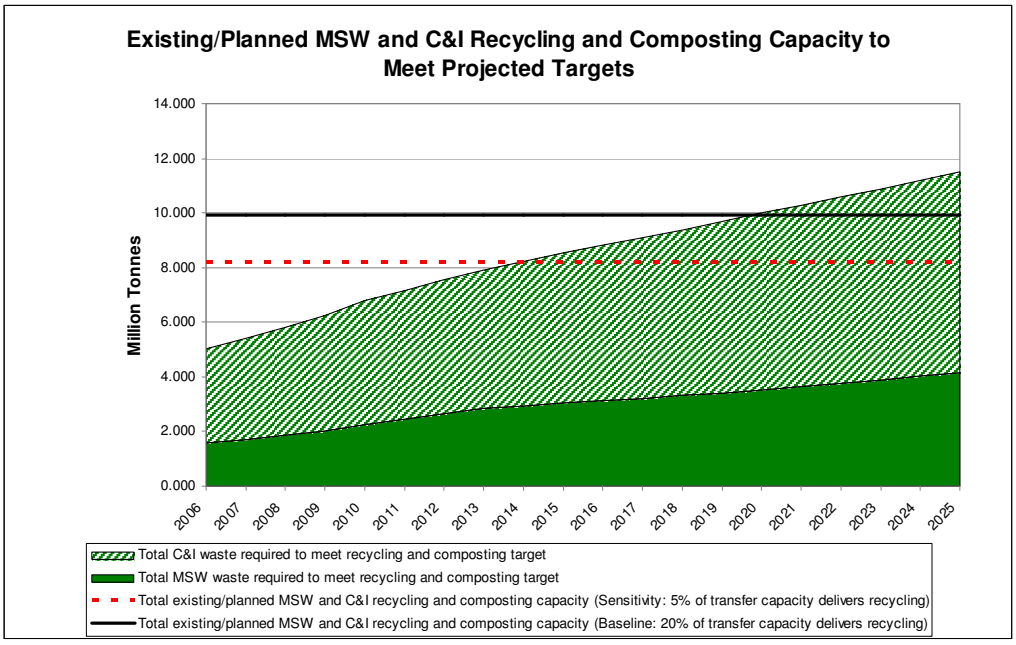
	2006	2010	2013	2016	2020	2022	2025
Berkshire	*-0.0723*	*-0.0150*	0.0077	*-0.0113*	*-0.0147*	*-0.0142*	*-0.0137*
Buckinghamshire	*-0.0056*	0.0077	0.0164	0.0028	*-0.0013*	*-0.0011*	*-0.0007*
East Sussex	0.0538	0.0489	0.0481	0.0260	0.0160	0.0164	0.0169
Hampshire	0.0394	0.0751	0.0857	0.0383	0.0195	0.0204	0.0215
Isle of Wight	0.0032	0.0022	0.0048	0.0008	*-0.0004*	*-0.0003*	*-0.0002*
Kent	*-0.0474*	0.0249	0.0491	0.0096	*-0.0025*	*-0.0017*	*-0.0007*
Medway	*-0.0204*	*-0.0032*	0.0030	*-0.0026*	*-0.0037*	*-0.0036*	*-0.0034*
Milton Keynes	*-0.0109*	0.0027	0.0067	0.0008	*-0.0009*	*-0.0008*	*-0.0006*
Oxfordshire	*-0.0285*	0.0029	0.0148	*-0.0002*	*-0.0042*	*-0.0039*	*-0.0035*
Surrey	*-0.0394*	0.0084	0.0301	0.0012	*-0.0067*	*-0.0061*	*-0.0053*
West Sussex	*-0.0518*	*-0.0032*	0.0161	*-0.0045*	*-0.0094*	*-0.0089*	*-0.0084*
SE Region	*-0.1798*	0.1514	0.2827	0.0608	*-0.0083*	*-0.0039*	0.0020

5.3 SCENARIO 2 – RESULTS

5.3.1 *Recycling, Composting and Recovery Capacity Gap Calculations*

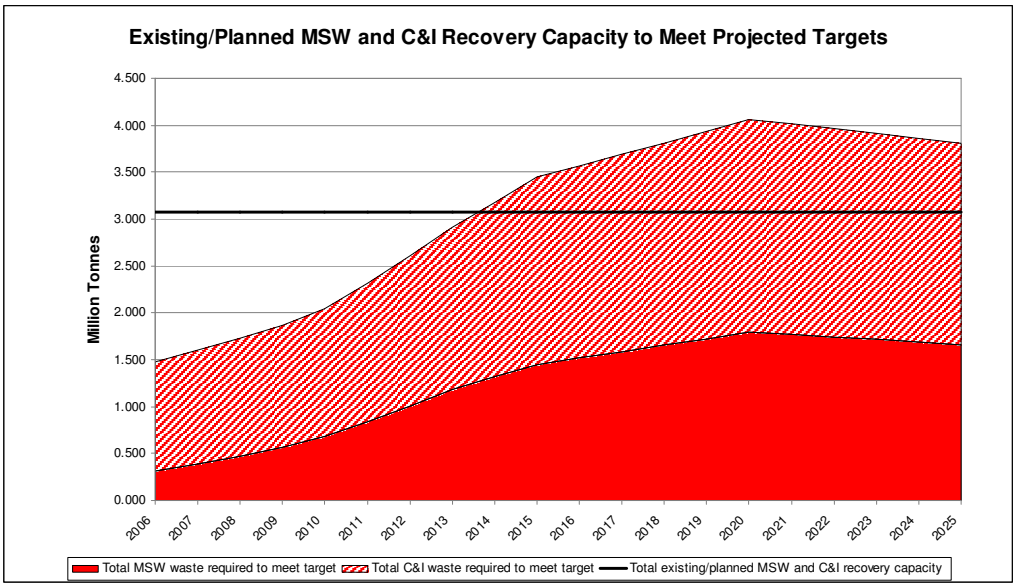
When the regional recycling and composting capacity is compared to the forecast arisings, the capacity is forecast to be exhausted by 2019/20. This is brought forward to 2013/14 when using the 5% transfer station recycling assumption. It is therefore imperative that recycling and composting capacity be provided in the short term in the South East of England. By 2021, a further 0.36 million tonnes per annum of capacity is required, climbing to 1.6 million by 2025.

Figure 5.7 Total South East Recycling and Composting Capacity vs Forecast MSW and C&I Recycling and Composting Arisings Projections (Scenario 2)



The recovery capacity gap analysis changes under scenario 2, showing that there is a shortfall in capacity compared with the forecast arisings. The date when capacity becomes insufficient is 2013/14. By 2014, 0.1million tonnes of extra recovery capacity will be required in the South East, and this peaks in 2020 when just under 1 million tonnes of capacity will be required.

Figure 5.8 ***Total South East Recovery Capacity vs Forecast MSW and C&I Recovery Arisings Projections (Scenario 2)***



As with Scenario 1, C&D recycling capacity appears to be lacking greatly in comparison to the forecast arisings. Once again, the reasoning could be that unrecorded exempt sites and on-site C&D recycling may deal with a large amount of this waste. The C&D recovery capacity in *Figure 5.10* is the same as Scenario 1, indicating that there are no recorded non-operational C&D recovery facilities.

Figure 5.9 ***Total South East C&D Recycling Capacity vs Forecast C&D Recycling Arisings Projections (Scenario 2)***

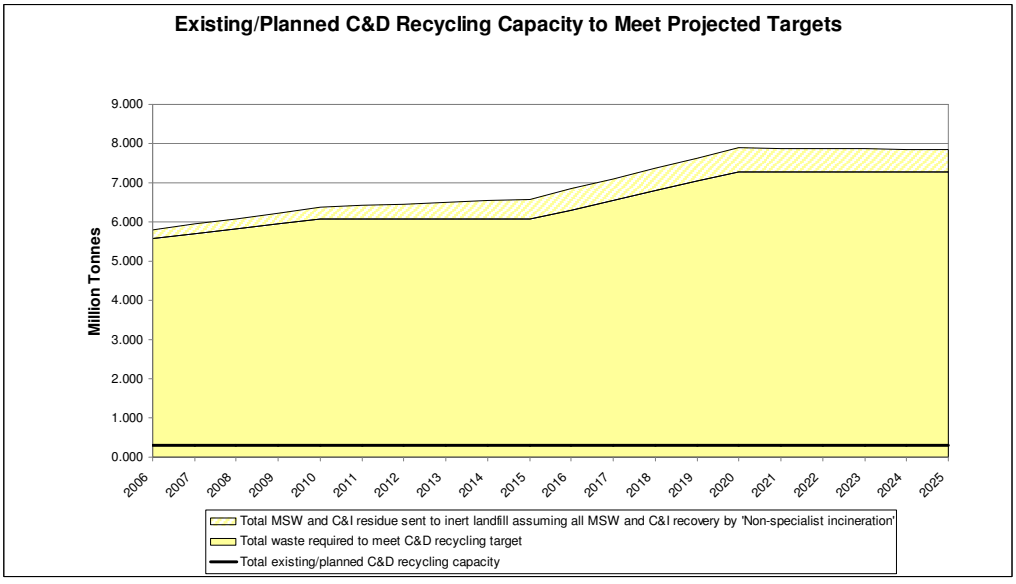
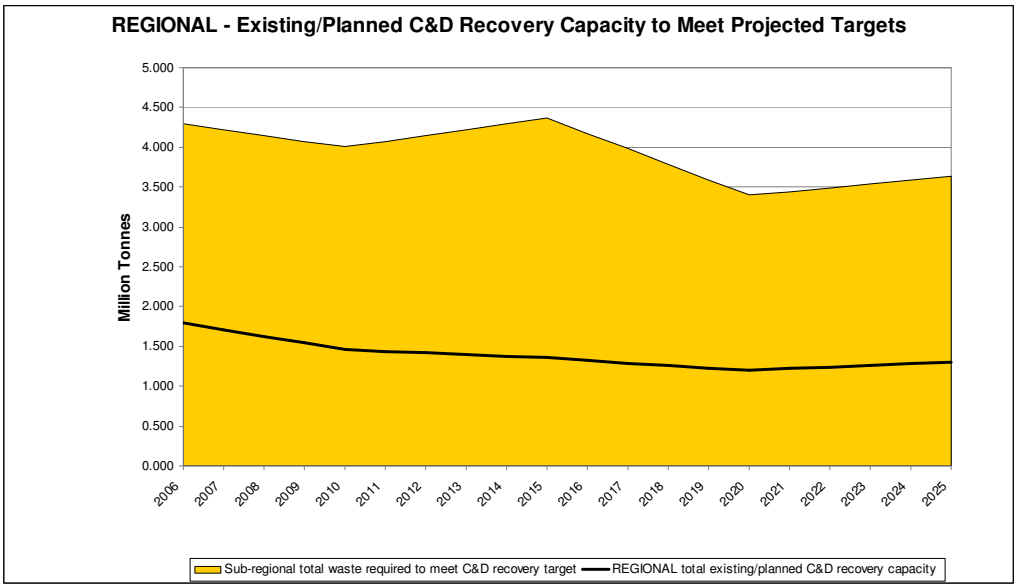


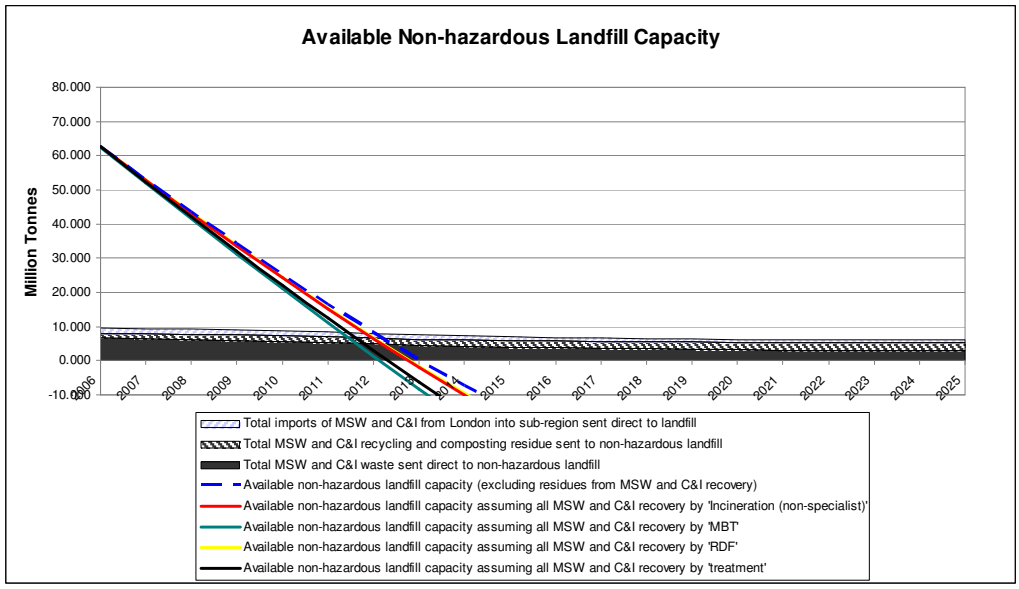
Figure 5.10 *Total South East C&D Recovery Capacity vs Forecast C&D Recovery Arisings Projections (Scenario 2)*



5.3.2 *Landfill Gap Calculations*

The same treatment scenarios are run in this landfill capacity scenario. *Figure 5.11* shows that, under the best case scenario (no residues from treatment), non-hazardous landfill capacity will be exhausted by 2013/14. Using the different treatment scenarios, the estimate of when landfill capacity is exhausted varies from 2013 to 2014. The worst case scenario (MBT treatment residues to landfill) requires nearly 80 million tonnes worth of landfill voidspace by 2021. The best case still requires approximately 54 million tonnes worth of capacity by 2021.

Figure 5.11 *MSW and C&I Wastes to Landfill vs Non Hazardous Landfill Voidspace in the South East of England (Scenario 2)*



Inert landfill is forecast to be sufficient throughout the forecasting period, as with Scenario 1. By 2021, the forecast is that between 36 and 43 million tonnes of capacity will remain.

Figure 5.12 *C&D Wastes to Landfilll vs Inert Landfill Voidspace in the South East of England (Scenario 2)*

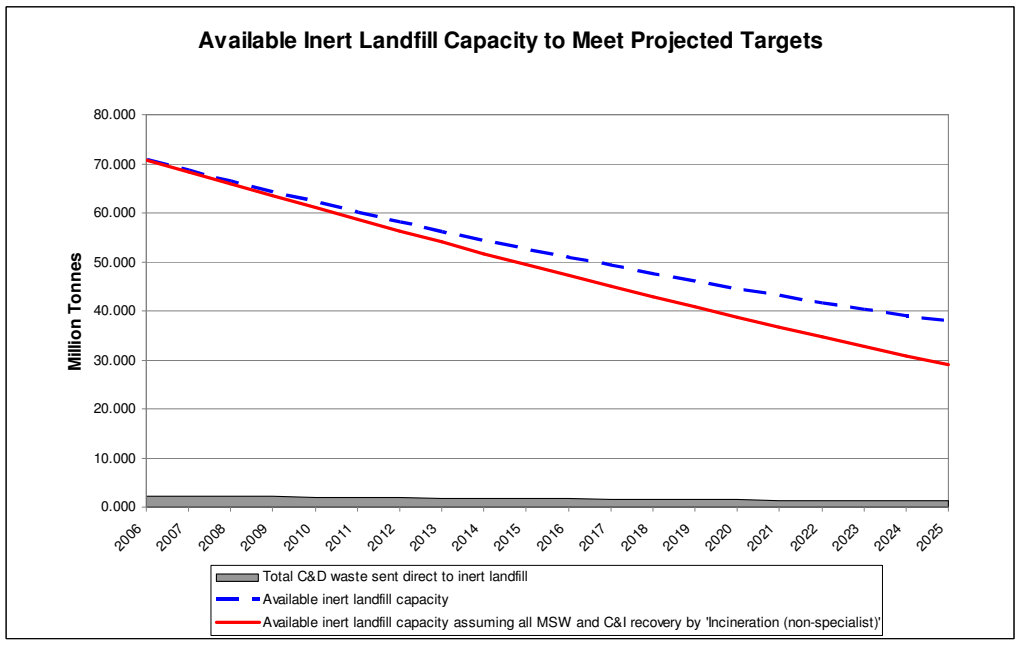


Table 5.2 LATS Shortfall

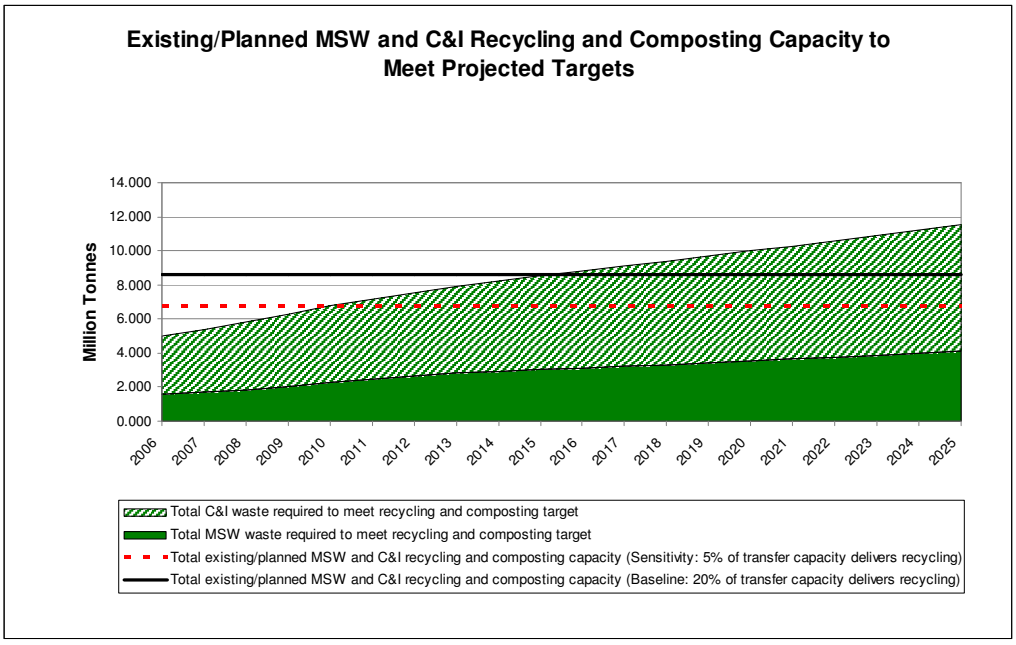
	2006	2010	2013	2016	2020	2022	2025
Berkshire	*-0.0723*	*-0.0150*	0.0077	*-0.0113*	*-0.0147*	*-0.0142*	*-0.0137*
Buckinghamshire	*-0.0056*	0.0077	0.0164	0.0028	*-0.0013*	*-0.0011*	*-0.0007*
East Sussex	0.0538	0.0489	0.0481	0.0260	0.0160	0.0164	0.0169
Hampshire	0.0394	0.0751	0.0857	0.0383	0.0195	0.0204	0.0215
Isle of Wight	0.0032	0.0022	0.0048	0.0008	*-0.0004*	*-0.0003*	*-0.0002*
Kent	*-0.0474*	0.0249	0.0491	0.0096	*-0.0025*	*-0.0017*	*-0.0007*
Medway	*-0.0204*	*-0.0032*	0.0030	*-0.0026*	*-0.0037*	*-0.0036*	*-0.0034*
Milton Keynes	*-0.0109*	0.0027	0.0067	0.0008	*-0.0009*	*-0.0008*	*-0.0006*
Oxfordshire	*-0.0285*	0.0029	0.0148	*-0.0002*	*-0.0042*	*-0.0039*	*-0.0035*
Surrey	*-0.0394*	0.0084	0.0301	0.0012	*-0.0067*	*-0.0061*	*-0.0053*
West Sussex	*-0.0518*	*-0.0032*	0.0161	*-0.0045*	*-0.0094*	*-0.0089*	*-0.0084*
SE Region	*-0.1798*	0.1514	0.2827	0.0608	*-0.0083*	*-0.0039*	0.0020

5.4 SCENARIO 3 - RESULTS

5.4.1 Recycling, Composting and Recovery Capacity Gap Calculations

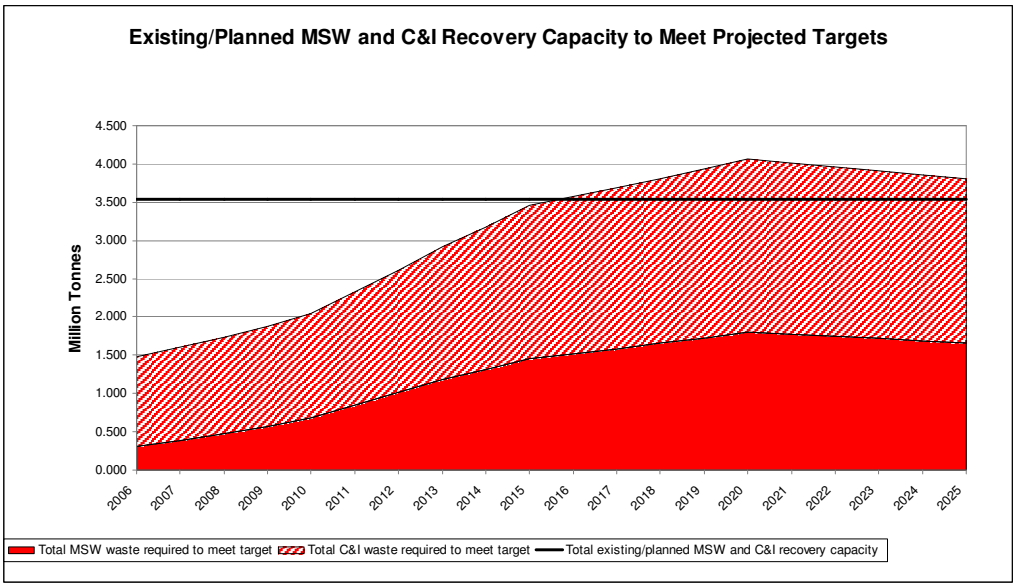
When Scenario 3 for the regional recycling and composting capacity is compared to the forecast arisings, capacity is forecast to be exhausted by 2015/16. When using the 5% transfer recycling assumption, this time horizon is brought forward to 2009/10. It is necessary under this scenario for new recycling and composting capacity to be made available in the South East. The amount of capacity required by 2021 is 1.7 million tonnes per annum, rising to nearly 3 million tonnes by 2025.

Figure 5.13 Total South East Recycling and Composting Capacity vs Forecast MSW and C&I Recycling and Composting Arisings Projections (Scenario 3)



The comparison of recovery capacity against MSW and C&I arisings shows that current capacity becomes insufficient by 2016. Approximately 0.5 million tonnes of recovery capacity would be needed when these arisings reach their peak in 2020.

Figure 5.14 Total South East Recovery Capacity vs Forecast MSW and C&I Recovery Arisings Projections (Scenario 3)



Once again, under this scenario both C&D recycling and recovery capacity is significantly below the level required to meet the targets laid down in the South East Plan. The same caveats apply here as mentioned for the other two scenarios, concerning exempt sites and on-site recycling/re use.

Figure 5.15 Total South East C&D Recycling Capacity vs Forecast C&D Recycling Arisings Projections (Scenario 3)

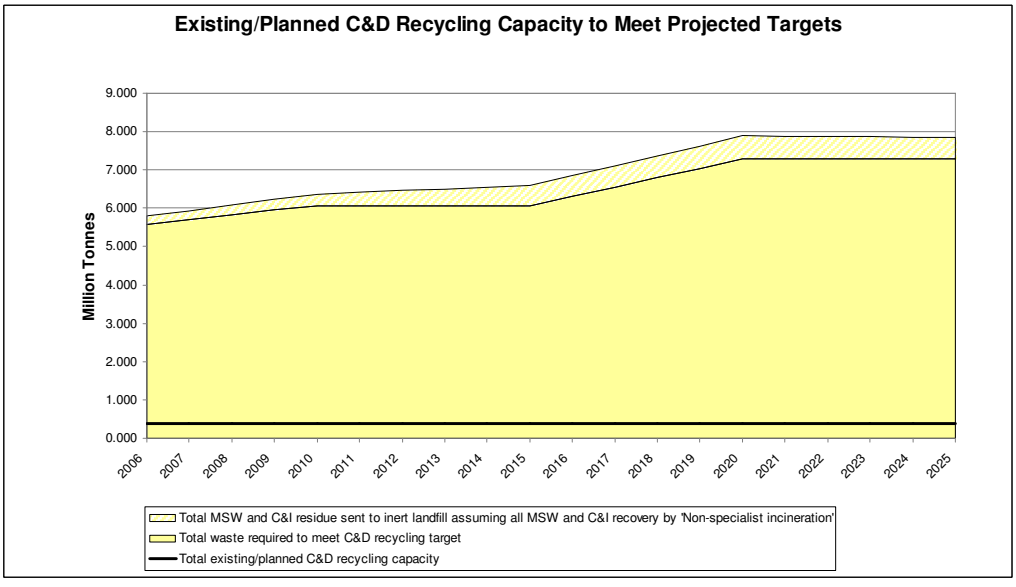
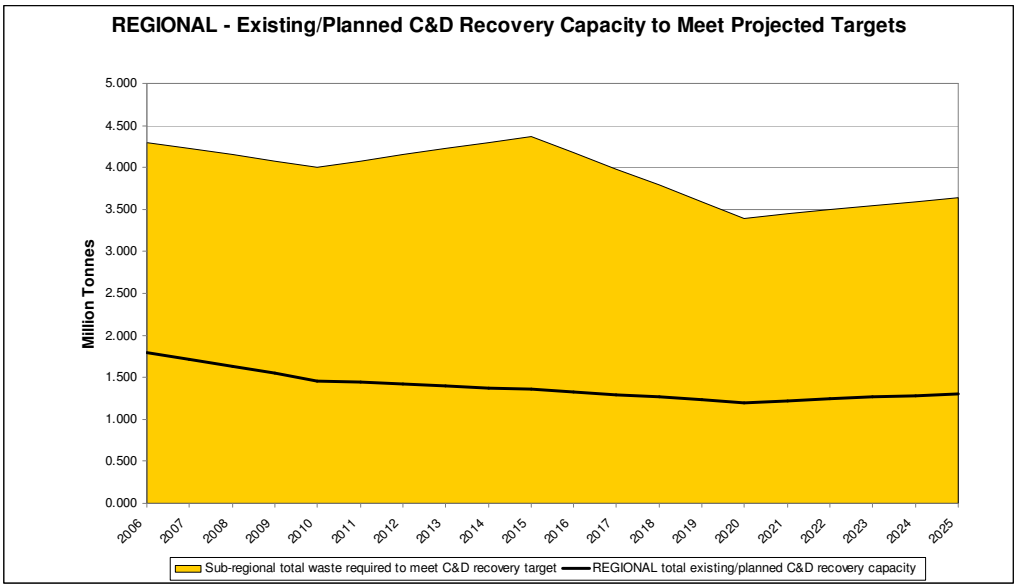


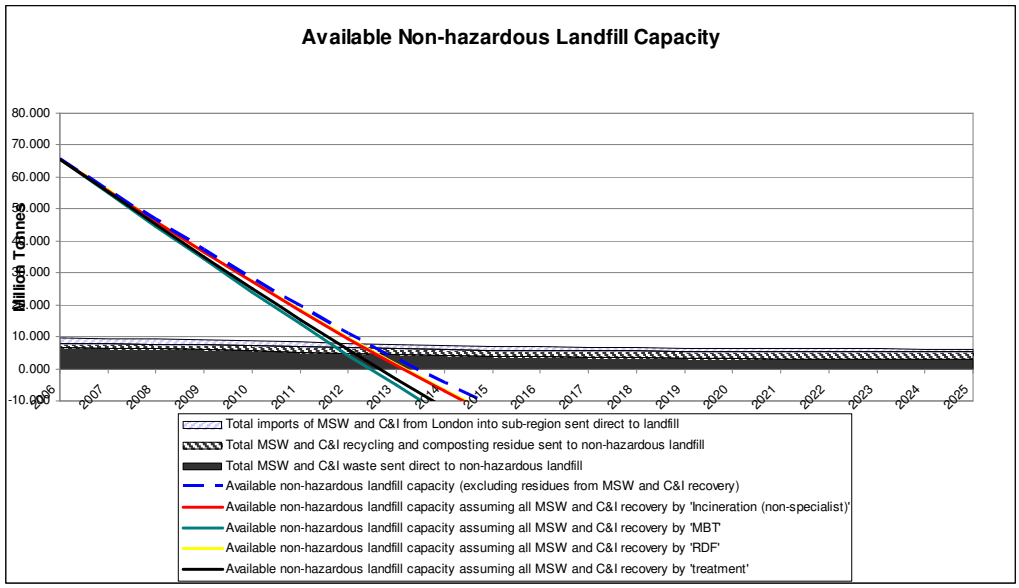
Figure 5.16 Total South East C&D Recovery Capacity vs Forecast C&D Recovery Arisings Projections (Scenario 3)



5.4.2 *Landfill Capacity Gap Calculations*

Landfill capacity gap calculations for Scenario 3 give a similar result to those for Scenario 1, as no extrapolations for landfill capacity were made. The figures below show the results for Scenario 3. Under the best case (no treatment residues), scenario voidspace is available until 2013, after which further void is required. A further 51million tonnes worth of capacity is required by 2021. The scenarios including treatment residues show a point of exhaustion between 2013 and 2014, the worst case scenario showing a further 76 million tonnes of capacity is required by 2021.

Figure 5.17 MSW and C&I Wastes to Landfill vs Non Hazardous Landfill Voidspace in the South East of England (Scenario 3)



As with Scenario 1, inert landfill space is forecast to be sufficient to deal with the forecast C&D arisings up to and beyond 2025, including the landfilling of residues from incinerator bottom ash.

Figure 5.18 C&D Wastes to Landfill vs Inert Landfill Voidspace in the South East of England (Scenario 3)

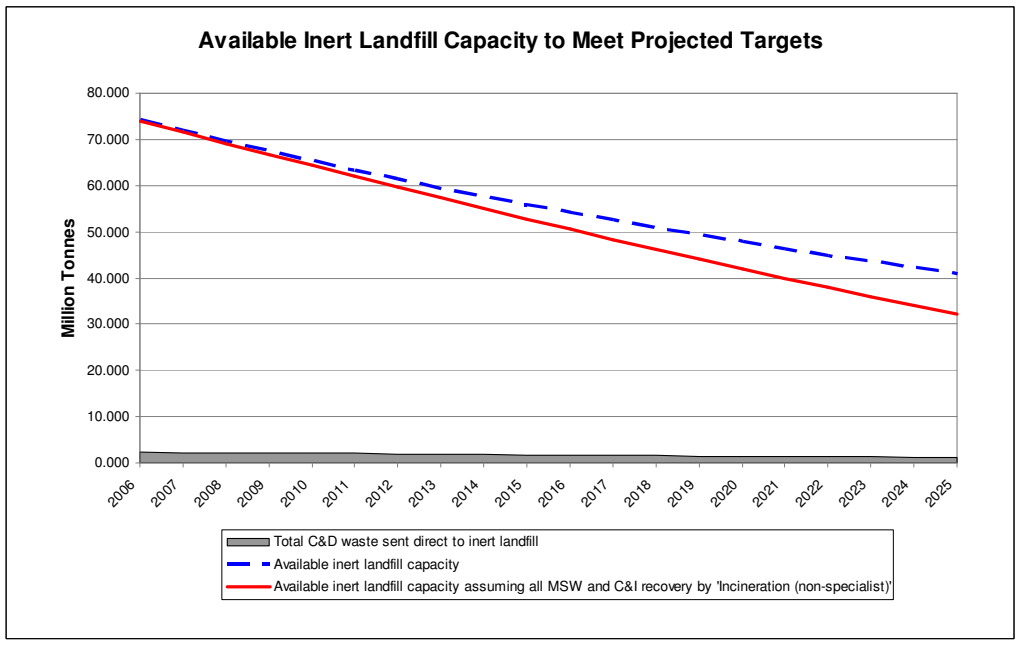


Table 5.3 LATS Shortfall

	2006	2010	2013	2016	2020	2022	2025
Berkshire	*-0.0723*	*-0.0150*	0.0077	*-0.0113*	*-0.0147*	*-0.0142*	*-0.0137*
Buckinghamshire	*-0.0056*	0.0077	0.0164	0.0028	*-0.0013*	*-0.0011*	*-0.0007*
East Sussex	0.0538	0.0489	0.0481	0.0260	0.0160	0.0164	0.0169
Hampshire	0.0394	0.0751	0.0857	0.0383	0.0195	0.0204	0.0215
Isle of Wight	0.0032	0.0022	0.0048	0.0008	*-0.0004*	*-0.0003*	*-0.0002*
Kent	*-0.0474*	0.0249	0.0491	0.0096	*-0.0025*	*-0.0017*	*-0.0007*
Medway	*-0.0204*	*-0.0032*	0.0030	*-0.0026*	*-0.0037*	*-0.0036*	*-0.0034*
Milton Keynes	*-0.0109*	0.0027	0.0067	0.0008	*-0.0009*	*-0.0008*	*-0.0006*
Oxfordshire	*-0.0285*	0.0029	0.0148	*-0.0002*	*-0.0042*	*-0.0039*	*-0.0035*
Surrey	*-0.0394*	0.0084	0.0301	0.0012	*-0.0067*	*-0.0061*	*-0.0053*
West Sussex	*-0.0518*	*-0.0032*	0.0161	*-0.0045*	*-0.0094*	*-0.0089*	*-0.0084*
SE Region	*-0.1798*	0.1514	0.2827	0.0608	*-0.0083*	*-0.0039*	0.0020

5.5 SCENARIO COMPARISONS

Scenario 3 is the 'worst case scenario' in terms of total capacity. There is less capacity in this scenario than the other two scenarios. For recycling, it sees the recycling and composting capacity in the Region become insufficient to deal with the forecast arisings by 2016 and recovery capacity is also insufficient by 2016. The tonnage required in new facilities for recycling and composting by 2021 is 1.7 million tonnes per annum, and for recovery it peaks at 0.5 million tonnes in 2020.

By comparison, Scenario 1 is the 'best case scenario' in terms of capacity, as it includes all sites that were surveyed and extrapolates for those non-landfill facilities with no data. This provides an estimate of 2023/24 as the date when recycling and composting capacity will be insufficient for the needs of the Region. Recycling and composting capacity required is estimated to be 0.4 million tonnes by 2025 and current recovery capacity is stated to be sufficient beyond the year 2025.

Scenario 2 falls between these two others in terms of total capacity. However, for recycling and composting it is the worst case scenario in which 1.6 million extra tonnes per annum of recycling and composting capacity is required by 2025, with the current level forecast to be insufficient by 2020. Just under 1 million extra tonnes per annum of recovery capacity will be required in 2020, when capacity requirement peaks, and the current level will become insufficient by 2013/14.

C&D recycling capacity in all scenarios appears to be insufficient to deal with both current and future arisings of C&D wastes requiring this type of facility. The nature of the market for C&D waste dictates its final disposal point, and therefore there maybe movements of C&D waste to other regions for recycling if the cheapest option is across authority/regional borders.

However, the largest contributor to this apparent mismatch in capacity is the amount of on site recycling/reuse of C&D wastes. It is recorded as arisings, however, as it never moves anywhere, it is not recorded as wastes to be managed and therefore a much higher arisings figure is presented than that which needs to be managed in facilities for which capacity is recorded.

The same can be said for recovery capacity for C&D wastes. All scenarios point to the same negative conclusions. However, it is likely that much of this extra capacity will not be necessary for the same reasons as explained for C&D recycling above.

The landfill capacity gaps are similar to the recycling and composting calculations, as there are clear 'best' and 'worst case scenarios'. Scenario 1 is again the 'best case' as it shows all sites surveyed. Scenario 3 is very similar as Scenario 1, as this scenario takes away those site extrapolations and no extrapolations were made for landfill capacity. As a result, Scenario 2 is the 'worst case' as it only looks at those sites currently operational.

All three scenarios show that non-hazardous landfill capacity is forecast to be exhausted between 2012 and 2014, depending on what treatment option is chosen. The amount of voidspace required by 2021 to handle the forecast arisings is between 51 and 80 million tonnes. Scenario 2 paints a slightly more negative picture when current voidspace is predicted to be exhausted slightly earlier in 2012, depending on treatment scenarios. The amount of extra voidspace required is between 54 and 80 million tonnes worth of space.

Inert landfill was assessed separately. For Scenarios 1 and 3, similar results were found due to there being no extrapolated landfill data. The amount of inert landfill recorded was sufficient to deal with the C&D waste in the South East throughout the forecast period, including residues from MSW and C&I incineration. Scenario 2 predicts that surplus amounts of inert landfill space will also remain throughout the period, with between 36 and 43 tonnes of capacity remaining in 2021. This translates to 18-21.5 million cubic metres of capacity remaining.

6 MONITORING CAPACITY

ERM have provided SEERA with the model used in this study for the purposes of updating information when this becomes available, most probably on an annual basis in line with the monitoring requirements of PPS 10.

The model consists of a set of databases, one for each WPA.

The information contained in the database relates to the sites in each WPA area. In the case of landfill, it is important that any new estimates/records of voidspace are updated/ included whenever new information is made available.

Non-landfill sites need to be monitored and any changes in use/planning status need to be recorded, as does any expansion/reduction in capacity. New sites should be recorded in the database and their data will then be included in the calculations.

These databases are fed into a model that produces the tables and figures found in the annexes to this document.

6.1 HOW TO UPDATE THE CAPACITY DATABASE

The capacity database is made up of the survey sheets that were sent to each WPA. These sheets will need updating by deleting sites, changing their details/status or capacity and adding new sites.

6.2 HOW TO UPDATE THE CAPACITY AND NEED MODEL

We have provided here a brief description of how to update the capacity and need model for the SE Region.

The MS Excel model is designed so that it will update the results automatically. The user simply needs to type in any data changes relating to:

- waste arisings;
- waste import and exports;
- waste diversion targets and LATS allowance; and
- waste treatment capacity.

The model is dealing with a complex waste management system and, as such, contains a significant number of calculations and formulae to generate the results accurately.

The model contains a single Excel sheet for each sub-region and one for the SE Region as a whole. New data can be entered into the model where the text is highlighted in blue. The data is structured into 15 different fields within the model, as follows:

1. arisings and growth rates;
2. inter-regional movements;
3. managed waste used to generate results;
4. targets;
5. waste stream tonnages to meet targets;
6. total tonnages to meet targets;
7. existing and planned capacity;
8. residue rates;
9. total residues;
10. residue from recycling sent to non-hazardous landfill;
11. residue from recovery sent to non-hazardous landfill;
12. C&D reused on landfill;
13. residue from recycling sent to hazardous landfill;
14. residue from recovery sent to hazardous landfill; and
15. hazardous waste residue from recovery and recycling sent to hazardous landfill.

There are several fields where data can be added to the model by the user which are shown in the following figures. The following fields should be modified by the user:

1. arisings and growth rates;
2. inter-regional movements;
4. targets; and
7. existing and planned capacity.

Figure 6.1 *Arisings: Illustration for Buckinghamshire of which Data to Change when Updating the Model in Blue Text*

DATA_01: ARISINGS AND GROWTH RATES OF MSW, C&I AND HAZARDOUS WASTE (Million Tonnes)		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	Arisings of MSW in baseline year																					
	(1) Forecast regional level growth rate of MSW - per year (%)	3.0%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%
	(1) Forecast regional level growth rate of MSW - cumulative (%)	109%	112%	115%	118%	121%	124%	126%	129%	131%	134%	136%	139%	141%	143%	145%	147%	149%	151%	154%	156%	158%
	Total arisings of MSW using regional growth forecasts	0.297	0.304	0.312	0.320	0.328	0.336	0.343	0.350	0.357	0.364	0.371	0.377	0.382	0.388	0.394	0.400	0.406	0.412	0.418	0.424	0.431
	(1) Forecast sub-regional growth rate of MSW - per year (%)	3.0%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%
	(1) Forecast sub-regional level growth rate of MSW - cumulative (%)	109%	112%	115%	118%	121%	124%	126%	129%	131%	134%	136%	139%	141%	143%	145%	147%	149%	151%	154%	156%	158%
	Total arisings of MSW using sub-regional growth forecasts	0.297	0.304	0.312	0.320	0.328	0.336	0.343	0.350	0.357	0.364	0.371	0.377	0.382	0.388	0.394	0.400	0.406	0.412	0.418	0.424	0.431
c&i	Arisings of C&I in baseline year																					
	(1) Forecast regional level growth rate of C&I - per year (%)	3.3%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.0%	1.0%	1.0%	1.0%	1.0%
	(1) Forecast regional level growth rate of C&I - cumulative (%)	117%	120%	123%	126%	130%	133%	136%	138%	141%	144%	147%	149%	151%	153%	156%	158%	160%	161%	163%	164%	166%
	Total arisings of C&I using regional growth forecasts	0.900	0.922	0.945	0.969	0.993	1.018	1.038	1.059	1.080	1.102	1.124	1.141	1.158	1.175	1.193	1.210	1.223	1.235	1.247	1.260	1.272
	(1) Forecast sub-regional level growth rate of C&I - per year (%)	3.3%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.0%	1.0%	1.0%	1.0%	1.0%
	(1) Forecast sub-regional level growth rate of C&I - cumulative (%)	117%	120%	123%	126%	130%	133%	136%	138%	141%	144%	147%	149%	151%	153%	156%	158%	160%	161%	163%	164%	166%
	Total arisings of C&I using sub-regional growth forecasts	0.900	0.922	0.945	0.969	0.993	1.018	1.038	1.059	1.080	1.102	1.124	1.141	1.158	1.175	1.193	1.210	1.223	1.235	1.247	1.260	1.272
hazardous	Arisings of hazardous waste in baseline year																					
	(2) Forecast regional level growth rate of hazardous waste - per year (%)	3.3%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.0%	1.0%	1.0%	1.0%	1.0%
	Forecast regional level growth rate of hazardous waste - cumulative (%)	107%	109%	112%	115%	118%	121%	123%	126%	128%	131%	133%	135%	137%	139%	141%	144%	145%	146%	148%	149%	151%
	Total arisings of hazardous waste	0.011	0.012	0.012	0.012	0.013	0.013	0.013	0.013	0.014	0.014	0.014	0.014	0.015	0.015	0.015	0.015	0.016	0.016	0.016	0.016	0.016
	(2) Forecast sub-regional level growth rate of hazardous waste - per year (%)	3.3%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.0%	1.0%	1.0%	1.0%	1.0%
	Forecast sub regional level growth rate of hazardous waste - cumulative (%)	107%	109%	112%	115%	118%	121%	123%	126%	128%	131%	133%	135%	137%	139%	141%	144%	145%	146%	148%	149%	151%
	Total arisings of hazardous waste	0.011	0.012	0.012	0.012	0.013	0.013	0.013	0.013	0.014	0.014	0.014	0.014	0.015	0.015	0.015	0.015	0.016	0.016	0.016	0.016	0.016
c&d	Total managed C&D in baseline year																					
	(3) Forecast regional-level growth rate of managed C&D - per year (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Forecast regional-level growth rate of managed C&D - cumulative (%)	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
	(3) Total managed of C&D for the sub-region	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711

Figure 6.2 *Inter-regional Movements: Illustration for Buckinghamshire of which Data to Change when Updating the Model in Blue Text*

DATA_02: INTER REGIONAL MOVEMENTS OF MSW and C&I (Million Tonnes)		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw and c&i	Regional level imports of MSW and C&I waste into the SE region from London	1.76	1.716	1.672	1.628	1.584	1.54	1.454	1.368	1.282	1.196	1.11	1.064	1.018	0.972	0.926	0.88	0.86	0.84	0.82	0.8	0.78
	Proportion of regional MSW and C&I imports that go to the sub-region (%)	16.8%	16.8%	16.8%	16.8%	16.8%	16.8%	16.8%	16.8%	16.8%	16.8%	16.8%	16.8%	16.8%	16.8%	16.8%	16.8%	16.8%	16.8%	16.8%	16.8%	16.8%
	(1) Total imports of MSW and C&I from London into sub-region sent direct to landfill	0.296	0.288	0.281	0.274	0.266	0.259	0.244	0.230	0.215	0.201	0.186	0.179	0.171	0.163	0.156	0.148	0.144	0.141	0.138	0.134	0.131
msw	Proportion of total MSW and C&I imports that are MSW (%) - REGIONAL GROWTH FORECAST	25%	25%	25%	25%	25%	25%	25%	25%	25%	25%	25%	25%	25%	25%	25%	25%	25%	25%	25%	25%	25%
	Total imports of MSW into the sub-region from London - REGIONAL GROWTH FORECAST	0.073	0.072	0.070	0.068	0.066	0.064	0.061	0.057	0.053	0.050	0.046	0.044	0.042	0.041	0.039	0.037	0.036	0.035	0.035	0.034	0.033
	Proportion of total MSW and C&I imports that are MSW (%) - SUB-REGIONAL GROWTH FORECAST	25%	25%	25%	25%	25%	25%	25%	25%	25%	25%	25%	25%	25%	25%	25%	25%	25%	25%	25%	25%	25%
	Total imports of MSW into the sub-region from London - SUB-REGIONAL GROWTH FORECAST	0.073	0.072	0.070	0.068	0.066	0.064	0.061	0.057	0.053	0.050	0.046	0.044	0.042	0.041	0.039	0.037	0.036	0.035	0.035	0.034	0.033
c&i	Proportion of total MSW and C&I imports that are C&I (%) - REGIONAL GROWTH FORECAST	75%	75%	75%	75%	75%	75%	75%	75%	75%	75%	75%	75%	75%	75%	75%	75%	75%	75%	75%	75%	75%
	Total imports of C&I into the sub-region from London - REGIONAL GROWTH FORECAST	0.222	0.217	0.211	0.206	0.200	0.194	0.184	0.173	0.162	0.151	0.140	0.134	0.129	0.123	0.117	0.111	0.108	0.106	0.103	0.101	0.098
	Proportion of total MSW and C&I imports that are C&I (%) - SUB-REGIONAL GROWTH FORECAST	75%	75%	75%	75%	75%	75%	75%	75%	75%	75%	75%	75%	75%	75%	75%	75%	75%	75%	75%	75%	75%
	Total imports of C&I into the sub-region from London - SUB-REGIONAL GROWTH FORECAST	0.222	0.217	0.211	0.206	0.200	0.194	0.184	0.173	0.162	0.151	0.140	0.134	0.129	0.123	0.117	0.111	0.108	0.106	0.103	0.101	0.098

Figure 6.3 *Targets: Illustration for Buckinghamshire of which Data to Change when Updating the Model in Blue Text*

DATA_04: TARGETS (% or Million Tonnes)		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	(1) landfill (Mt)	0.137	0.133	0.128	0.121	0.112	0.102	0.091	0.079	0.068	0.065	0.062	0.059	0.056	0.053	0.050	0.048	0.048	0.048	0.048	0.048	0.048
	recovered (%)	5	6.4	7.8	9.2	10.6	12	14.4	16.8	19.2	21.6	24	24.8	25.6	26.4	27.2	28	27.2	26.4	25.6	24.8	24
	recycled and composted (%)	30	32.0	34.0	36.0	38.0	40	42.0	44.0	46.0	48.0	50	51.0	52.0	53.0	54.0	55	56.0	57.0	58.0	59.0	60
c&i	recovered (%)	14	14.2	14.4	14.6	14.8	15	16.0	17.0	18.0	19.0	20	20.2	20.4	20.6	20.8	21	20.6	20.2	19.8	19.4	19
	recycled and composted (%)	40	42.0	44.0	46.0	48.0	50	51.0	52.0	53.0	54.0	55	56.0	57.0	58.0	59.0	60	61.0	62.0	63.0	64.0	65
c&d	recovered (%)	36	35.4	34.8	34.2	33.6	33	33.6	34.2	34.8	35.4	36	34.4	32.8	31.2	29.6	28	28.4	28.8	29.2	29.6	30
	recycled (%)	45	46.0	47.0	48.0	49.0	50	50.0	50.0	50.0	50.0	50	52.0	54.0	56.0	58.0	60	60.0	60.0	60.0	60.0	60
hazardous	landfill (%)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	recovered (%)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	recycled (%)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Figure 6.4 Capacity: Illustration for Buckinghamshire of which Data to Change when Updating the Model in Blue Text

DATA_07: EXISTING/PLANNED CAPACITY FOR RECYCLING, RECOVERY AND LANDFILLING AND TOTAL WASTE TONNAGES TO EACH DISPOSAL ROUTE (Million Tonnes)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
MSW and C&I recovery																					
MSW and C&I incineration (non-specialist)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
MSW and C&I treatment	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186
Total existing/planned MSW and C&I recovery capacity	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186
Total MSW waste required to meet target	0.015	0.019	0.024	0.029	0.035	0.042	0.052	0.063	0.073	0.082	0.090	0.094	0.098	0.103	0.107	0.112	0.110	0.109	0.107	0.105	0.103
Total C&I waste required to meet target	0.126	0.131	0.136	0.141	0.147	0.153	0.166	0.180	0.194	0.209	0.225	0.230	0.236	0.242	0.248	0.254	0.252	0.249	0.247	0.244	0.242
Surplus/deficit capacity	0.046	0.036	0.026	0.016	0.004	-0.008	-0.032	-0.056	-0.081	-0.105	-0.128	-0.138	-0.148	-0.158	-0.169	-0.180	-0.176	-0.172	-0.168	-0.163	-0.159
MSW and C&I recycling and composting																					
MSW and C&I recycling	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137
MSW and C&I transfer	0.404	0.404	0.404	0.404	0.404	0.404	0.404	0.404	0.404	0.404	0.404	0.404	0.404	0.404	0.404	0.404	0.404	0.404	0.404	0.404	0.404
Total existing/planned composting capacity	0.263	0.263	0.263	0.263	0.263	0.263	0.263	0.263	0.263	0.263	0.263	0.263	0.263	0.263	0.263	0.263	0.263	0.263	0.263	0.263	0.263
(1) Total existing/planned MSW and C&I recycling and composting capacity (Baseline: 20% of transfer capacity delivers recycling)	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480	0.480
(2) Total existing/planned MSW and C&I recycling and composting capacity (Sensitivity: 5% of transfer capacity delivers recycling)	0.419	0.419	0.419	0.419	0.419	0.419	0.419	0.419	0.419	0.419	0.419	0.419	0.419	0.419	0.419	0.419	0.419	0.419	0.419	0.419	0.419
Total MSW waste required to meet recycling and composting target	0.089	0.097	0.106	0.115	0.126	0.140	0.152	0.164	0.176	0.182	0.188	0.194	0.200	0.206	0.213	0.220	0.227	0.235	0.242	0.250	0.258
Total C&I waste required to meet recycling and composting target	0.360	0.387	0.416	0.446	0.477	0.509	0.529	0.551	0.572	0.595	0.618	0.639	0.660	0.681	0.704	0.726	0.746	0.766	0.786	0.806	0.827
Surplus/deficit capacity (Baseline: 20% of transfer capacity delivers recycling)	0.031	-0.005	-0.042	-0.081	-0.123	-0.169	-0.201	-0.234	-0.268	-0.296	-0.326	-0.352	-0.380	-0.408	-0.436	-0.466	-0.493	-0.520	-0.548	-0.576	-0.605
Surplus/deficit capacity (Sensitivity: 5% of transfer capacity delivers recycling)	-0.029	-0.065	-0.102	-0.141	-0.183	-0.230	-0.262	-0.295	-0.329	-0.357	-0.386	-0.413	-0.440	-0.468	-0.497	-0.527	-0.554	-0.581	-0.609	-0.637	-0.666
C&D recycling																					
Total existing/planned C&D recycling capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total waste required to meet C&D recycling target	0.320	0.327	0.334	0.341	0.348	0.356	0.356	0.356	0.356	0.356	0.356	0.370	0.384	0.398	0.412	0.427	0.427	0.427	0.427	0.427	0.427
Surplus/deficit capacity	-0.320	-0.327	-0.334	-0.341	-0.348	-0.356	-0.356	-0.356	-0.356	-0.356	-0.356	-0.370	-0.384	-0.398	-0.412	-0.427	-0.427	-0.427	-0.427	-0.427	-0.427
C&D recovery																					
(3) REGIONAL total existing/planned C&D recovery capacity	1.877	1.794	1.710	1.627	1.544	1.460	1.439	1.418	1.398	1.377	1.356	1.325	1.293	1.262	1.231	1.199	1.220	1.241	1.262	1.283	1.304
Sub-regional total waste required to meet C&D recovery target	0.256	0.252	0.247	0.243	0.239	0.235	0.239	0.243	0.247	0.252	0.256	0.245	0.233	0.222	0.211	0.199	0.202	0.205	0.208	0.211	0.213
Surplus/deficit capacity	1.621	1.542	1.463	1.384	1.305	1.225	1.200	1.175	1.150	1.125	1.100	1.080	1.060	1.040	1.020	1.000	1.018	1.036	1.054	1.072	1.090
Hazardous waste recycling																					
Total existing/planned hazardous waste recycling capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total hazardous waste to be recycled	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Surplus/deficit capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hazardous waste recovery																					
Total existing/planned hazardous waste recovery capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total hazardous waste to be recovered	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Surplus/deficit capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Non-hazardous landfill																					
Available non-hazardous landfill capacity (excluding residues from MSW and C&I recovery)		10.500	9.515	8.547	7.599	6.672	5.770	4.907	4.083	3.299	2.548	1.831	1.131	0.447	-0.220	-0.869	-1.499	-2.125	-2.747	-3.365	-3.979
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'Incineration (non-specialist)'		10.500	9.492	8.501	7.527	6.572	5.641	4.745	3.885	3.061	2.266	1.502	0.753	0.019	-0.699	-1.402	-2.087	-2.768	-3.443	-4.114	-4.780
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'MBT'		10.500	9.426	8.364	7.315	6.280	5.264	4.272	3.305	2.363	1.440	0.537	-0.355	-1.236	-2.106	-2.965	-3.811	-4.651	-5.484	-6.311	-7.131
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'RDF'		10.500	9.497	8.510	7.541	6.592	5.667	4.778	3.925	3.108	2.323	1.568	0.829	0.105	-0.603	-1.295	-1.969	-2.639	-3.304	-3.964	-4.620
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'treatment'		10.500	9.447	8.408	7.382	6.373	5.384	4.422	3.489	2.585	1.703	0.844	-0.002	-0.837	-1.658	-2.467	-3.263	-4.052	-4.835	-5.612	-6.383
Total MSW and C&I waste sent direct to non-hazardous landfill		0.591	0.575	0.557	0.536	0.510	0.481	0.451	0.421	0.398	0.374	0.360	0.345	0.330	0.315	0.298	0.293	0.288	0.283	0.278	0.272
Inert landfill																					
Available inert landfill capacity		13.026	12.893	12.764	12.637	12.513	12.393	12.276	12.164	12.055	11.952	11.852	11.755	11.661	11.570	11.482	11.397	11.314	11.235	11.158	11.084
Available inert landfill capacity assuming all MSW and C&I recovery by 'Incineration (non-specialist)'		13.026	12.871	12.717	12.565	12.414	12.264	12.114	11.966	11.817	11.670	11.523	11.378	11.234	11.091	10.949	10.809	10.672	10.539	10.409	10.283
Total C&D waste sent direct to inert landfill (excludes residues from MSW and C&I recovery)	0.135	0.132	0.129	0.127	0.124	0.121	0.117	0.112	0.108	0.104	0.100	0.097	0.094	0.091	0.088	0.085	0.082	0.080	0.077	0.074	0.071
Hazardous landfill																					
Available hazardous landfill capacity		0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total hazardous waste sent direct to hazardous landfill	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
Other																					
Metal/ELV facility	0.071	0.071	0.071	0.071	0.071	0.071	0.071	0.071	0.071	0.071	0.071	0.071	0.071	0.071	0.071	0.071	0.071	0.071	0.071	0.071	0.071
Ignored	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050
Closed	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

This report concludes that, following examination of a number of scenarios regarding necessary assumptions in forecasting the capacity needs of the South East of England, an expansion of current recycling and composting capacity will be necessary in the short term. A worst case estimate of when this capacity will be required is 2015/16, with a further 1.7 million tonnes per annum of capacity required by 2021. When considering the worst case scenario for MSW and C&I recovery, 2013 is the date estimated for the exhaustion of the current capacity, with 0.5 million tonnes per annum of capacity required by 2021.

Also necessary in the short term would be an increase in non-hazardous landfill capacity. This is forecast to be exhausted in the worst case scenario by 2012. Under this scenario, a further 80 million tonnes worth of landfill space would be required by 2021. Inert landfill voidspace is forecast to remain until the end of the planning period, with all scenarios predicting voidspace being sufficient up to 2021/22 and beyond.

The area with the most uncertainty regarding the need for further capacity is the C&D waste sector. From the modelling results, it appears that the amount of capacity for the recovery and recycling of C&D wastes is significantly less than the current demand. With an increasing demand, this capacity gap gets greater. However, due to the nature of these types of sites and C&D wastes, it is possible that this is simply an apparent gap; it either does not exist at all, or is not as great as the model predicts. A significant proportion of C&D waste is managed on site and at exempt sites, which do not appear in the model, and thus further capacity might not be required. Further work into C&D wastes, their disposal routes and management types is needed. Data on wastes managed on site and at exempt sites is vital to a more accurate result for this sector.

The following recommendations are made to SEERA following this work. ERM sees these as extra pieces of work that would increase the reliability and robustness of the data to be used in future modelling:

- conduct a more detailed sensitivity study on the effects of residue rates in order to meet LATS allowance;
- gather and utilise more up to date arisings data for all sectors, especially for C&I data and C&D data;
- surveying of hazardous waste facilities as a separate facility type to non-hazardous; and
- further investigation into the status of C&D reuse/recycling facilities and the impact these have on the capacity gap calculation

Annex A

WPA Survey

A1 QUESTIONNAIRE SENT TO WPAS

Box 1.1 Survey Update Instructions

Introduction

SEERA has commissioned ERM to undertake a regional waste capacity survey for the South East of England.

The data contained in this Excel file has been extracted from information provided by the Environment Agency on licensed waste sites.

Each WPA in the South East of England region has been contacted to check the data contained in the waste site database for their area and, where data held by planning authorities may differ from data held by the Environment Agency, to make amendments accordingly and fill in gaps where possible.

There are also some additional questions on arisings, assumptions and capacity, which we would be very grateful if you could complete.

Update Instructions

1. Please check the Waste Site Database for your area, which currently includes Environment Agency data on licensed sites.

2. Where gaps are filled and/or information on missing / new sites is added, please track changes or highlight these in another colour so that they can be easily identified.

3. All columns, but particularly those headed in red text should be checked and information updated/added where appropriate.

4. Please add extra rows at the bottom for those licensed sites that may be missing from the database according to your records, and for sites that are not licensed (e.g. because they have exemptions or other permits/licenses). Sites that currently have planning permission but are not licensed should be included with as much detail as possible.

5. Where more than one treatment activity is ongoing at a particular site, please add a row to the database to record information relating to this type of capacity. This is particularly relevant for columns V to AA and applies, for example where a landfill site may also have composting capacity.

6. Columns S - U require information on permissions and authorisations. Where more than one is held, please give details of both.

7. A sheet is provided asking some additional questions relating to assumptions about waste densities and overall estimates of capacity.

8. If you have any queries please contact:

Philip Short 0207 465 7205 philip.short@erm.com
Peter Garrett 01865 384856 peter.garrett@erm.com

9. There is a tab with a guidance note on the types of information that is expected. PLEASE READ THIS and fill in the site information accordingly.

10. Please return the updated Excel file by Friday 30th June to the following email address:
philip.short@erm.com

11. A workshop will be organised prior to the end date for returning the information to go through any problems with the form/ information gathering.

Figure 1.1 Additoinal Questions

Additional Questions

Q1 Do you have any standard assumptions which you use when planning for waste facilities/capacities?
eg. density of waste to convert tonnes to volume (1m3 = 1 tonne or other conversion factor?),
standard assumptions on how much waste is used in landfill engineering.

Yes/No	*If yes, please provide details if possible*

Q2 Do you have an estimate of the total landfill capacity in your area at the start of 2006?
(i.e. Capacity of sites with planning permission)

Yes/No	*If yes, please provide details if possible, stating whether information provided is in m3 or tonnes*		
	Non-hazardous	**Inert**	**Hazardous**

Q3 Do you have an estimate of the potential further landfill capacity in your area?
(i.e. capacity beyond any additional sites you may have added to the database)

Yes/No	*If yes, please provide details if possible, stating whether information provided is in m3 or tonnes*		
	Non-hazardous	**Inert**	**Hazardous**

Q4 Do you have an estimate of the total treatment capacity in your area at the start of 2006?
(i.e. Capacity of sites with planning permission)

Yes/No	*If yes, please provide details if possible, stating whether information provided is in m3 or tonnes*		
	Non-hazardous	**Inert**	**Hazardous**

Q5 Do you have an estimate of the potential further treatment capacity in your area?
(i.e. capacity beyond any additional sites you may have added to the database)

Yes/No	*If yes, please provide details if possible, stating whether information provided is in m3 or tonnes*		
	Non-hazardous	**Inert**	**Hazardous**

Figure 1.2 Guidance Note

INFORMATION REQUIRED

This questionnaire is designed to provide sets of data from the WPAs that are consistent and that will enable quantative analysis to take place that will be informative and sufficiently accurate to be fit for purpose given the requirements of PPS 10.

Landfill Data
When providing landfill capacity, total remaining voidspace should be quoted. This should be the remaining void to be filled with waste, including the engineering surcharge to allow for settlement, the amount allowed for engineering works and void taken up by cover and restoration. If this is not the case then it should be stated. Where a landfill contains a stable non-reactive hazardous waste cell, this should be highlighted and the capacity of the cell recorded as a separate entry.

Non Landfill Data
These data are ideally provided in one of two forms, with a clear indication of which is quoted. Providing both would be helpful (columns V-Z). These are licensed throughput (or capacity) and permitted throughput taking account of planning constraints. Licensed throughput may give an overestimate of the capacity of the site; it may never be able to manage that amount of waste. Permitted throughput taking account of planning constraints such as hours of operation and vehicle movements etc will provide a more realistic figure for the maximum capacity of the site. Actual throughput may be lower than either figure, and if this is also available, it would be helpful. However, there may be commercial reasons why actual throughput is less than licensed and permitted capacity that should not influence the provision of future waste management infrastructure. If the maximum operational throughput is known to be lower than licensed and permitted capacity - this figure would also be helpful. Where neither of the desired forms are available, EA site banding data will be used to assign a capacity. Any planning conditions that limit capacity should be made clear.

Definitions
Landfill - the total capacity of the void to be filled in cubic metres (m3), including engineering surcharge and making no allowance for cover or restoration material. Where the void is still to be created under a mineral extraction permission the total void space figure should reflect the anticipated void created.

Non-landfill - the maximum annual operational throughput in tonnes (or litres if liquid waste). If not available the licensed capacity including any conditions where they exist.

Site Classification
All sites need to be classified in column O with one of the folowing classifications:

List of ERM site classifications
Non Haz Landfill
Haz Landfill
Inert Landfill
Recycling
Metal/ELV Facility
Treatment
Composting
Transfer
Incineration

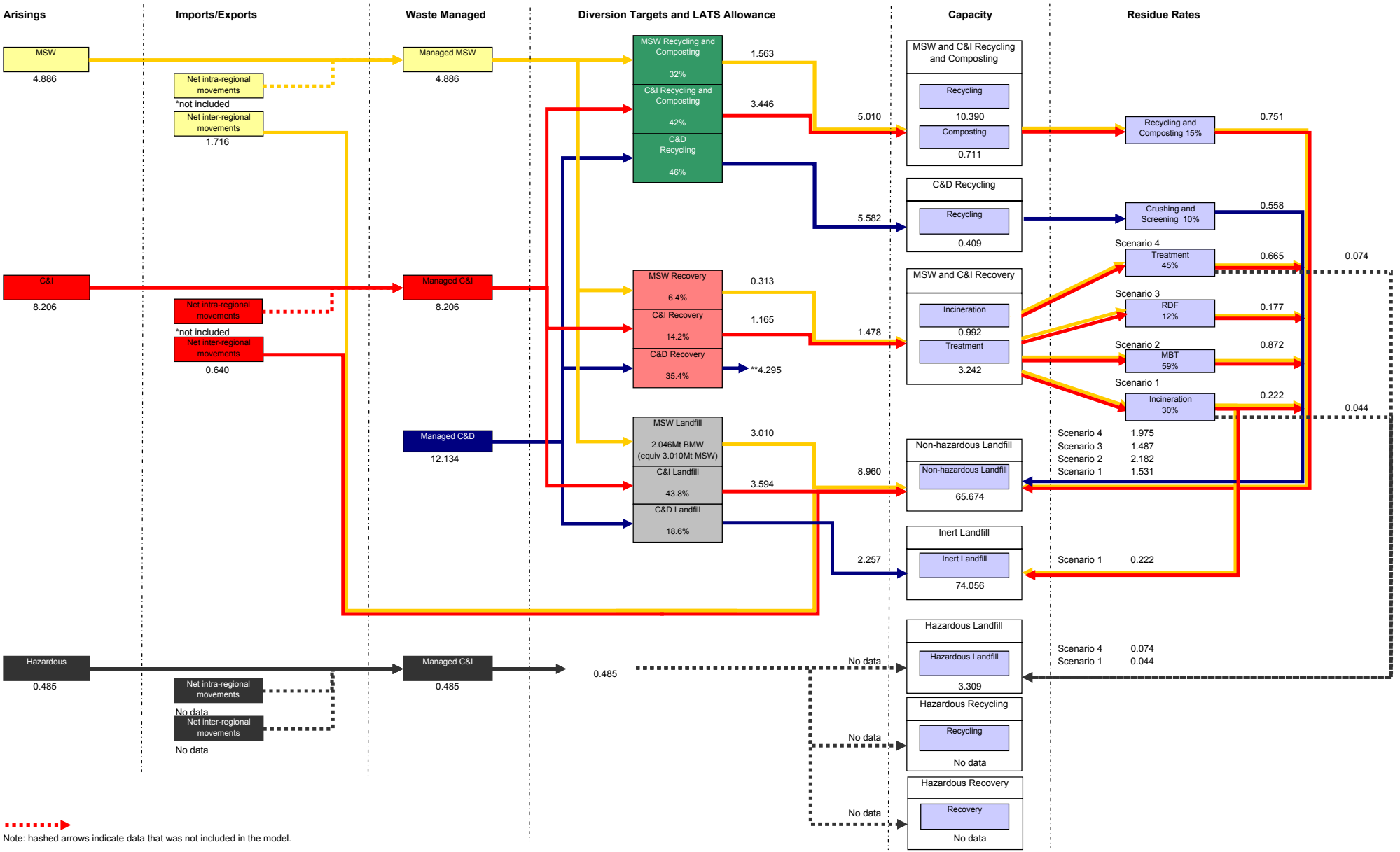
The form that followed these in the survey had a list of the sites in each area. This was to be updated and have any additional information added by the relevant WPAs.

Annex B

Model Scenarios

Scenario 1

SEERA Needs and Capacity Model Structure - Example data for SE Region in 2006



Note: hashed arrows indicate data that was not included in the model.

* Intra-regional movements have been excluded for MSW and C&I waste due to self-sufficiency requirements under PPS10

** It has been assumed in the model that C&D reuse as an engineering material has been accounted for in the landfill capacity figures.

SE Region

SUMMARY DATA AND RESULTS FOR SE REGION

MANAGED WASTE USED TO GENERATE RESULTS (Million Tonnes)	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	4.886	5.008	5.133	5.261	5.393	5.501	5.611	5.723	5.837	5.954	6.043	6.134	6.226	6.319	6.414	6.510	6.608	6.707	6.808	6.910
msw - imports from london that are sent direct to non-hazardous landfill	0.703	0.685	0.667	0.649	0.631	0.596	0.560	0.525	0.490	0.455	0.436	0.417	0.398	0.379	0.360	0.353	0.346	0.339	0.331	0.324
c&i	8.206	8.411	8.621	8.837	9.058	9.239	9.423	9.612	9.804	10.000	10.150	10.302	10.457	10.614	10.773	10.881	10.990	11.100	11.211	11.323
c&i - imports from london that are sent direct to non-hazardous landfill	1.011	0.985	0.960	0.934	0.908	0.857	0.806	0.756	0.705	0.654	0.627	0.600	0.573	0.546	0.519	0.506	0.493	0.481	0.468	0.456
c&d	12.134	12.134	12.134	12.134	12.134	12.134	12.134	12.134	12.134	12.134	12.134	12.134	12.134	12.134	12.134	12.134	12.134	12.134	12.134	12.134
hazardous	0.485	0.497	0.510	0.522	0.535	0.546	0.557	0.568	0.579	0.591	0.600	0.609	0.618	0.627	0.637	0.643	0.650	0.656	0.663	0.669

WASTE STREAM TONNAGES TO MEET TARGETS (Million Tonnes)		2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	LATS shortfall (how much extra is landfilled above LATS target)	-0.180	-0.142	-0.073	*0.024*	*0.151*	*0.201*	*0.245*	*0.283*	*0.181*	*0.073*	*0.061*	*0.047*	*0.030*	*0.012*	-0.008	-0.006	-0.004	-0.002	*0.000*	*0.002*
	Recycling and composting target	1.563	1.703	1.848	2.018	2.274	2.460	2.646	2.832	2.927	3.026	3.123	3.221	3.320	3.421	3.528	3.646	3.767	3.890	4.017	4.147
	Recovery target	0.313	0.391	0.472	0.563	0.682	0.843	1.010	1.182	1.317	1.453	1.519	1.586	1.654	1.723	1.796	1.771	1.745	1.717	1.688	1.659
	Non-hazardous landfill	3.010	2.914	2.813	2.680	2.437	2.197	1.954	1.709	1.593	1.475	1.402	1.327	1.252	1.176	1.090	1.094	1.097	1.100	1.103	1.104
c&i	Recycling and composting target	3.446	3.701	3.966	4.242	4.529	4.712	4.900	5.094	5.294	5.500	5.684	5.872	6.065	6.262	6.464	6.637	6.814	6.993	7.175	7.360
	Recovery target	1.165	1.211	1.259	1.308	1.359	1.478	1.602	1.730	1.863	2.000	2.050	2.102	2.154	2.208	2.262	2.241	2.220	2.198	2.175	2.151
	Non-hazardous landfill	3.594	3.499	3.397	3.287	3.170	3.049	2.921	2.787	2.647	2.500	2.416	2.328	2.238	2.144	2.047	2.002	1.956	1.909	1.861	1.812
c&d	Recycling target	5.582	5.703	5.824	5.946	6.067	6.067	6.067	6.067	6.067	6.067	6.310	6.552	6.795	7.038	7.280	7.280	7.280	7.280	7.280	7.280
	Recovery target	4.295	4.223	4.150	4.077	4.004	4.077	4.150	4.223	4.295	4.368	4.174	3.980	3.786	3.592	3.397	3.446	3.495	3.543	3.592	3.640
	Inert landfill	2.257	2.208	2.160	2.111	2.063	1.990	1.917	1.844	1.772	1.699	1.650	1.602	1.553	1.505	1.456	1.408	1.359	1.310	1.262	1.213
hazardous	Hazardous waste	0.485	0.497	0.510	0.522	0.535	0.546	0.557	0.568	0.579	0.591	0.600	0.609	0.618	0.627	0.637	0.643	0.650	0.656	0.663	0.669

Note: If there is a LATS shortfall, denoted by a positive number, (ie insufficient allowance to landfill non-diverted waste) then the model assumes that this extra waste is recycled/composted and recovered at the same ratio as the regional targets for recycling/composting and recovery for that year.

EXISTING/PLANNED CAPACITY FOR RECYCLING, RECOVERY AND LANDFILLING AND TOTAL WASTE TONNAGES TO EACH DISPOSAL ROUTE (Million Tonnes)	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
MSW and C&I recovery																				
Total existing/planned MSW and C&I recovery capacity	4.234	4.234	4.234	4.234	4.234	4.234	4.234	4.234	4.234	4.234	4.234	4.234	4.234	4.234	4.234	4.234	4.234	4.234	4.234	4.234
Surplus/deficit capacity	2.756	2.632	2.503	2.363	2.193	1.912	1.621	1.321	1.054	0.781	0.665	0.546	0.426	0.303	0.175	0.221	0.269	0.319	0.370	0.423
MSW and C&I recycling and composting																				
Total existing/planned MSW and C&I recycling and composting capacity (Baseline: 20% of transfer capacity delivers recycling)	11.101	11.101	11.101	11.101	11.101	11.101	11.101	11.101	11.101	11.101	11.101	11.101	11.101	11.101	11.101	11.101	11.101	11.101	11.101	11.101
Total existing/planned MSW and C&I recycling and composting capacity (Sensitivity: 5% of transfer capacity delivers recycling)	9.009	9.009	9.009	9.009	9.009	9.009	9.009	9.009	9.009	9.009	9.009	9.009	9.009	9.009	9.009	9.009	9.009	9.009	9.009	9.009
Surplus/deficit capacity (Baseline: 20% of transfer capacity delivers recycling)	6.091	5.698	5.288	4.841	4.299	3.930	3.555	3.175	2.880	2.575	2.294	2.008	1.716	1.419	1.110	0.818	0.521	0.218	-0.090	-0.406
Surplus/deficit capacity (Sensitivity: 5% of transfer capacity delivers recycling)	4.000	3.606	3.196	2.749	2.207	1.838	1.463	1.083	0.788	0.483	0.202	-0.084	-0.376	-0.673	-0.982	-1.274	-1.571	-1.874	-2.182	-2.498
C&D recycling																				
Total existing/planned C&D recycling capacity	0.409	0.409	0.409	0.409	0.409	0.409	0.409	0.409	0.409	0.409	0.409	0.409	0.409	0.409	0.409	0.409	0.409	0.409	0.409	0.409
Surplus/deficit capacity	-5.173	-5.294	-5.415	-5.537	-5.658	-5.658	-5.658	-5.658	-5.658	-5.658	-5.901	-6.143	-6.386	-6.629	-6.871	-6.871	-6.871	-6.871	-6.871	-6.871
C&D recovery																				
REGIONAL total existing/planned C&D recovery capacity	1.794	1.710	1.627	1.544	1.460	1.439	1.418	1.398	1.377	1.356	1.325	1.293	1.262	1.231	1.199	1.220	1.241	1.262	1.283	1.304
Surplus/deficit capacity	-2.502	-2.512	-2.523	-2.533	-2.544	-2.638	-2.731	-2.825	-2.919	-3.012	-2.849	-2.687	-2.524	-2.361	-2.198	-2.226	-2.253	-2.281	-2.309	-2.336
Hazardous waste recycling																				
Total existing/planned hazardous waste recycling capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Surplus/deficit capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hazardous waste recovery																				
Total existing/planned hazardous waste recovery capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Surplus/deficit capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Non-hazardous landfill																				
Available non-hazardous landfill capacity (excluding residues from MSW and C&I recovery)	65.674	56.047	46.582	37.292	28.209	19.436	11.055	3.074	-4.499	-11.774	-18.743	-25.576	-32.268	-38.816	-45.217	-51.460	-57.686	-63.893	-70.082	-76.251
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'Incineration (non-specialist)'	65.618	55.769	46.064	36.514	27.150	18.071	9.342	0.969	-7.040	-14.792	-22.280	-29.648	-36.893	-44.012	-51.003	-57.855	-64.682	-71.484	-78.260	-85.009
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'MBT'	65.453	54.953	44.544	34.232	24.045	14.068	4.318	-5.205	-14.495	-23.647	-32.653	-41.592	-50.459	-59.254	-67.974	-76.612	-85.205	-93.751	-102.249	-110.698
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'RDF'	65.629	55.824	46.168	36.670	27.362	18.344	9.685	1.390	-6.532	-14.189	-21.573	-28.833	-35.968	-42.973	-49.846	-56.576	-63.283	-69.966	-76.624	-83.258
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'treatment'	65.505	55.213	45.027	34.958	25.033	15.342	5.916	-3.240	-12.123	-20.829	-29.353	-37.791	-46.142	-54.404	-62.574	-70.644	-78.675	-86.666	-94.616	-102.524
Inert landfill																				
Available inert landfill capacity (excluding residues from MSW and C&I recovery)	74.056	71.799	69.591	67.431	65.320	63.257	61.267	59.350	57.506	55.734	54.035	52.385	50.783	49.230	47.726	46.270	44.862	43.503	42.193	40.931
Available inert landfill capacity assuming all MSW and C&I recovery by 'Incineration (non-specialist)'	74.000	71.521	69.072	66.653	64.261	61.892	59.554	57.245	54.964	52.715	50.499	48.313	46.159	44.034	41.940	39.875	37.866	35.912	34.015	32.173
Hazardous landfill																				
Available hazardous landfill capacity	3.3085	3.3085	3.3085	3.3085	3.3085	3.3085	3.3085	3.3085	3.3085	3.3085	3.3085	3.3085	3.3085	3.3085	3.3085	3.3085	3.3085	3.3085	3.3085	3.3085
Note: The model does not contain data for the management of hazardous waste.																				

DATA_01: ARISINGS AND GROWTH RATES OF MSW, C&I AND HAZARDOUS WASTE (Million Tonnes)		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	Arisings of MSW in baseline year																					
	(1) Forecast regional level growth rate of MSW - per year (%)	3.0%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%
	(1) Forecast regional level growth rate of MSW - cumulative (%)																					
	Total arisings of MSW using regional growth forecasts	4.766	4.886	5.008	5.133	5.261	5.393	5.501	5.611	5.723	5.837	5.954	6.043	6.134	6.226	6.319	6.414	6.510	6.608	6.707	6.808	6.910
	(1) Forecast sub-regional growth rate of MSW - per year (%)	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%
	(1) Forecast sub-regional level growth rate of MSW - cumulative (%)																					
	Total arisings of MSW using sub-regional growth forecasts	4.747	4.862	4.976	5.088	5.202	5.312	5.409	5.499	5.591	5.685	5.779	5.857	5.935	6.015	6.085	6.162	6.240	6.320	6.400	6.482	6.565
c&i	Arisings of C&I in baseline year																					
	(1) Forecast regional level growth rate of C&I - per year (%)	3.3%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.0%	1.0%	1.0%	1.0%	1.0%
	(1) Forecast regional level growth rate of C&I - cumulative (%)																					
	Total arisings of C&I using regional growth forecasts	8.006	8.206	8.411	8.621	8.837	9.058	9.239	9.423	9.612	9.804	10.000	10.150	10.302	10.457	10.614	10.773	10.881	10.990	11.100	11.211	11.323
	(1) Forecast sub-regional level growth rate of C&I - per year (%)	3.3%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.0%	1.0%	1.0%	1.0%	1.0%
	(1) Forecast sub-regional level growth rate of C&I - cumulative (%)																					
	Total arisings of C&I using sub-regional growth forecasts	7.903	8.080	8.256	8.437	8.622	8.806	8.961	9.118	9.279	9.443	9.598	9.719	9.842	9.967	10.093	10.214	10.297	10.380	10.464	10.550	10.636
hazardous	Arisings of hazardous waste in baseline year																					
	(2) Forecast regional level growth rate of hazardous waste - per year (%)	3.3%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.0%	1.0%	1.0%	1.0%	1.0%
	Forecast regional level growth rate of hazardous waste - cumulative (%)																					
	Total arisings of hazardous waste	0.473	0.485	0.497	0.510	0.522	0.535	0.546	0.557	0.568	0.579	0.591	0.600	0.609	0.618	0.627	0.637	0.643	0.650	0.656	0.663	0.669
	(2) Forecast sub-regional level growth rate of hazardous waste - per year (%)	3.3%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.0%	1.0%	1.0%	1.0%	1.0%
	Forecast sub regional level growth rate of hazardous waste - cumulative (%)																					
	Total arisings of hazardous waste	0.471	0.481	0.493	0.504	0.516	0.527	0.537	0.547	0.557	0.567	0.578	0.586	0.594	0.602	0.610	0.618	0.624	0.629	0.635	0.641	0.647
c&d	Total managed C&D in baseline year																					
	(3) Forecast regional-level growth rate of managed C&D - per year (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Forecast regional-level growth rate of managed C&D - cumulative (%)																					
	(3) Total managed of C&D for the sub-region	12.134	12.134	12.134	12.134	12.134	12.134	12.134	12.134	12.134	12.134	12.134	12.134	12.134	12.134	12.134	12.134	12.134	12.134	12.134	12.134	12.134

(1) Figures from SEERA updated waste capacity model by ERM in 2005.
(2) Baseline year of hazardous waste arisings is 2003 from EA Hazardous Waste Interrogator. www.environment-agency.gov.uk/apps/wastesurvey2/. ERM has assumed that growth in hazardous waste is equal to C&I waste.
(3) These data represent managed C&D waste in the sub-region, including all intra-regional and inter-regional movements. Growth is assumed to be zero from the orginal MEL study and updated modeted by ERM in 2005.
NOTE: C&D waste is not included in arisings because this was taken from survey data by Symonds 2001 which gave values for managed C&D waste.

SE Region

Figure in blue represent data supplied by each sub-region for the new '2006 SEERA Capacity and Need Model'
Figures in orange represent managed waste that are used by the model to calculate results. These can be adjusted for different scenarios.

DATA_02: INTER REGIONAL MOVEMENTS OF MSW and C&I (Million Tonnes)		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw and c&i	Regional level imports of MSW and C&I waste into the SE region from London	1.76	1.716	1.672	1.628	1.584	1.54	1.454	1.368	1.282	1.196	1.11	1.064	1.018	0.972	0.926	0.88	0.86	0.84	0.82	0.8	0.78
	Proportion of regional MSW and C&I imports that go to the sub-region (%)	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
(1)	Total imports of MSW and C&I from London into sub-region sent direct to landfill	1.760	1.716	1.672	1.628	1.584	1.540	1.454	1.368	1.282	1.196	1.110	1.064	1.018	0.972	0.926	0.880	0.860	0.840	0.820	0.800	0.780
msw	Proportion of total MSW and C&I imports that are MSW (%) - REGIONAL GROWTH FORECAST	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	38%	38%	38%	38%
	Total imports of MSW into the sub-region from London - REGIONAL GROWTH FORECAST	0.657	0.640	0.624	0.608	0.591	0.575	0.543	0.511	0.478	0.446	0.414	0.397	0.380	0.363	0.346	0.328	0.322	0.315	0.309	0.302	0.296
	Proportion of total MSW and C&I imports that are MSW (%) - SUB-REGIONAL GROWTH FORECAST	38%	38%	38%	38%	38%	38%	38%	38%	38%	38%	38%	38%	38%	38%	38%	38%	38%	38%	38%	38%	38%
	Total imports of MSW into the sub-region from London - SUB-REGIONAL GROWTH FORECAST	0.660	0.645	0.629	0.612	0.596	0.579	0.547	0.515	0.482	0.449	0.417	0.400	0.383	0.366	0.348	0.331	0.325	0.318	0.311	0.304	0.298
c&i	Proportion of total MSW and C&I imports that are C&I (%) - REGIONAL GROWTH FORECAST	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	62%	62%	62%	62%
	Total imports of C&I into the sub-region from London - REGIONAL GROWTH FORECAST	1.103	1.076	1.048	1.020	0.993	0.965	0.911	0.857	0.804	0.750	0.696	0.667	0.638	0.609	0.580	0.552	0.538	0.525	0.511	0.498	0.484
	Proportion of total MSW and C&I imports that are C&I (%) - SUB-REGIONAL GROWTH FORECAST	62%	62%	62%	62%	62%	62%	62%	62%	62%	62%	62%	62%	62%	62%	62%	62%	62%	62%	62%	62%	62%
	Total imports of C&I into the sub-region from London - SUB-REGIONAL GROWTH FORECAST	1.100	1.071	1.043	1.016	0.988	0.961	0.907	0.853	0.800	0.747	0.693	0.664	0.635	0.606	0.578	0.549	0.535	0.522	0.509	0.496	0.482

(1) Intra-regional and inter-regional movements have been excluded for MSW and C&I waste due to self-sufficiency requirements under PPS10, except for inter-regional movements from London into the sub-region. Apportionment from Policy W3 in the Plan – downloadable from www.southeast-ra.gov.uk/southeastplan/plan/march_2006/core_document/009_seera_
Note: Only a figure is available for total combined imports of MSW and C&I waste. ERM has assumed that imports of the seperate waste streams of MSW and C&I was split according to tonnage arisings of MSW and C&I in the sub-region.

DATA_03: MANAGED WASTE USED TO GENERATE RESULTS (Million Tonnes)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	4.766	4.886	5.008	5.133	5.261	5.393	5.501	5.611	5.723	5.837	5.954	6.043	6.134	6.226	6.319	6.414	6.510	6.608	6.707	6.808	6.910
msw - imports from london that are sent direct to non-hazardous landfill	0.721	0.703	0.685	0.667	0.649	0.631	0.596	0.560	0.525	0.490	0.455	0.436	0.417	0.398	0.379	0.360	0.353	0.346	0.339	0.331	0.324
c&i	8.006	8.206	8.411	8.621	8.837	9.058	9.239	9.423	9.612	9.804	10.000	10.150	10.302	10.457	10.614	10.773	10.881	10.990	11.100	11.211	11.323
c&i - imports from london that are sent direct to non-hazardous landfill	1.037	1.011	0.985	0.960	0.934	0.908	0.857	0.806	0.756	0.705	0.654	0.627	0.600	0.573	0.546	0.519	0.506	0.493	0.481	0.468	0.456
c&d	12.134	12.134	12.134	12.134	12.134	12.134	12.134	12.134	12.134	12.134	12.134	12.134	12.134	12.134	12.134	12.134	12.134	12.134	12.134	12.134	12.134
hazardous	0.473	0.485	0.497	0.510	0.522	0.535	0.546	0.557	0.568	0.579	0.591	0.600	0.609	0.618	0.627	0.637	0.643	0.650	0.656	0.663	0.669

DATA_04: TARGETS (% or Million Tonnes)		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	(1) landfill (Mt)	2.295	2.226	2.123	1.986	1.815	1.609	1.430	1.251	1.072	1.026	0.980	0.934	0.888	0.842	0.796	0.750	0.750	0.750	0.750	0.750	0.750
	recovered (%)	5	6.4	7.8	9.2	10.6	12	14.4	16.8	19.2	21.6	24	24.8	25.6	26.4	27.2	28	27.2	26.4	25.6	24.8	24
	recycled and composted (%)	30	32.0	34.0	36.0	38.0	40	42.0	44.0	46.0	48.0	50	51.0	52.0	53.0	54.0	55	56.0	57.0	58.0	59.0	60
c&i	recovered (%)	14	14.2	14.4	14.6	14.8	15	16.0	17.0	18.0	19.0	20	20.2	20.4	20.6	20.8	21	20.6	20.2	19.8	19.4	19
	recycled and composted (%)	40	42.0	44.0	46.0	48.0	50	51.0	52.0	53.0	54.0	55	56.0	57.0	58.0	59.0	60	61.0	62.0	63.0	64.0	65
c&d	recovered (%)	36	35.4	34.8	34.2	33.6	33	33.6	34.2	34.8	35.4	36	34.4	32.8	31.2	29.6	28	28.4	28.8	29.2	29.6	30
	recycled (%)	45	46.0	47.0	48.0	49.0	50	50.0	50.0	50.0	50.0	50	52.0	54.0	56.0	58.0	60	60.0	60.0	60.0	60.0	60
hazardous	landfill (%)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	recovered (%)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	recycled (%)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

(1) ERM has assumed that the LATS target allowance remains constant at the 2020 value for the years beyond 2020

DATA_05: WASTE STREAM TONNAGES TO MEET TARGETS (Million Tonnes)

DATA_02 calculates if there is a LATS shortfall or surplus in each year. If there is a LATS shortfall (ie insufficient allowance to landfill non-diverted waste) then the model assumes that this extra waste is recycled/composted and recovered at the same ratio as the regional targets for recycling/composting and recovery for that year. If there is a LATS surplus (ie more can be landfilled than is needed to meet regional diversion targets) then the model assumes that regional diversion targets are met (ie less waste is landfilled than LATS will allow). *'Red italic' text indicates where there is a shortfall.*

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	Total MSW to be recovered and recycled/composted to meet target	1.668	1.876	2.093	2.320	2.557	2.804	3.102	3.411	3.731	4.063	4.406	4.581	4.760	4.943	5.131	5.324	5.417	5.511	5.607	5.705	5.804
	Total MSW not-diverted by targets	3.098	3.010	2.914	2.813	2.704	2.589	2.398	2.199	1.992	1.775	1.548	1.462	1.374	1.283	1.188	1.090	1.094	1.097	1.100	1.103	1.106
	Percentage of MSW that is biodegradable (% by weight)	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68
	Total BMW not-diverted by targets	2.107	2.046	1.982	1.913	1.839	1.760	1.631	1.496	1.354	1.207	1.053	0.994	0.934	0.872	0.808	0.741	0.744	0.746	0.748	0.750	0.752
	LATS shortfall (how much extra is landfilled above LATS target)	-0.188	-0.180	-0.142	-0.073	0.024	0.151	0.201	0.245	0.283	0.181	0.073	0.061	0.047	0.030	0.012	-0.008	-0.006	-0.004	-0.002	0.000	0.002
	Ratio of 'recovered' to 'recycled/composted' for target (%)	14%	17%	19%	20%	22%	23%	26%	28%	29%	31%	32%	33%	33%	33%	33%	34%	33%	32%	31%	30%	29%
	Extra MSW 'recovery' needed due to LATS shortfall	0.000	0.000	0.000	0.000	*0.005*	*0.035*	*0.051*	*0.068*	*0.083*	*0.056*	*0.024*	*0.020*	*0.015*	*0.010*	*0.004*	0.000	0.000	0.000	0.000	*0.000*	*0.001*
	Extra MSW 'recycling/composting' needed due to LATS shortfall	0.000	0.000	0.000	0.000	*0.019*	*0.116*	*0.150*	*0.177*	*0.199*	*0.125*	*0.049*	*0.041*	*0.031*	*0.020*	*0.008*	0.000	0.000	0.000	0.000	*0.000*	*0.001*

The section below in DATA_03 shows the tonnages by waste to meet targets.

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	Recycling and composting target	1.430	1.563	1.703	1.848	2.018	2.274	2.460	2.646	2.832	2.927	3.026	3.123	3.221	3.320	3.421	3.528	3.646	3.767	3.890	4.017	4.147
	Recovery target	0.238	0.313	0.391	0.472	0.563	0.682	0.843	1.010	1.182	1.317	1.453	1.519	1.586	1.654	1.723	1.796	1.771	1.745	1.717	1.688	1.659
	Non-hazardous landfill	3.098	3.010	2.914	2.813	2.680	2.437	2.197	1.954	1.709	1.593	1.475	1.402	1.327	1.252	1.176	1.090	1.094	1.097	1.100	1.103	1.104
	CHECK COUNTER (should be zero)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
c&i	Recycling and composting target	3.202	3.446	3.701	3.966	4.242	4.529	4.712	4.900	5.094	5.294	5.500	5.684	5.872	6.065	6.262	6.464	6.637	6.814	6.993	7.175	7.360
	Recovery target	1.121	1.165	1.211	1.259	1.308	1.359	1.478	1.602	1.730	1.863	2.000	2.050	2.102	2.154	2.208	2.262	2.241	2.220	2.198	2.175	2.151
	Non-hazardous landfill	3.683	3.594	3.499	3.397	3.287	3.170	3.049	2.921	2.787	2.647	2.500	2.416	2.328	2.238	2.144	2.047	2.002	1.956	1.909	1.861	1.812
	CHECK COUNTER (should be zero)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

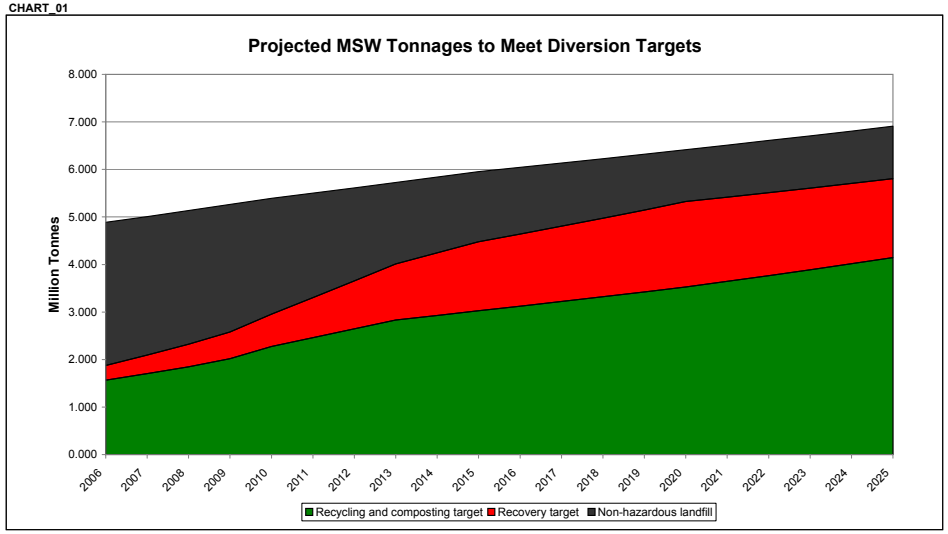
		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
c&d	Recycling target	5.460	5.582	5.703	5.824	5.946	6.067	6.067	6.067	6.067	6.067	6.067	6.310	6.552	6.795	7.038	7.280	7.280	7.280	7.280	7.280	7.280
	Recovery target	4.368	4.295	4.223	4.150	4.077	4.004	4.077	4.150	4.223	4.295	4.368	4.174	3.980	3.786	3.592	3.397	3.446	3.495	3.543	3.592	3.640
	Inert landfill	2.305	2.257	2.208	2.160	2.111	2.063	1.990	1.917	1.844	1.772	1.699	1.650	1.602	1.553	1.505	1.456	1.408	1.359	1.310	1.262	1.213
	CHECK COUNTER (should be zero)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
hazardous	Hazardous waste	0.473	0.485	0.497	0.510	0.522	0.535	0.546	0.557	0.568	0.579	0.591	0.600	0.609	0.618	0.627	0.637	0.643	0.650	0.656	0.663	0.669

DATA_06: TOTAL WASTE TONNAGES TO MEET TARGETS (Million Tonnes)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
MSW and C&I recycling and composting target	4.632	5.010	5.403	5.814	6.260	6.802	7.172	7.546	7.926	8.221	8.526	8.807	9.093	9.385	9.683	9.992	10.283	10.580	10.883	11.191	11.507
C&D recycling target	5.460	5.582	5.703	5.824	5.946	6.067	6.067	6.067	6.067	6.067	6.067	6.310	6.552	6.795	7.038	7.280	7.280	7.280	7.280	7.280	7.280
MSW and C&I recovery target	1.359	1.478	1.602	1.731	1.871	2.041	2.322	2.612	2.912	3.180	3.453	3.569	3.687	3.808	3.931	4.058	4.012	3.964	3.915	3.863	3.810
C&D recovery target	4.368	4.295	4.223	4.150	4.077	4.004	4.077	4.150	4.223	4.295	4.368	4.174	3.980	3.786	3.592	3.397	3.446	3.495	3.543	3.592	3.640
Non-hazardous landfill	6.781	6.604	6.413	6.210	5.967	5.607	5.246	4.876	4.496	4.241	3.975	3.817	3.656	3.490	3.320	3.137	3.096	3.053	3.009	2.964	2.915
Inert landfill	2.305	2.257	2.208	2.160	2.111	2.063	1.990	1.917	1.844	1.772	1.699	1.650	1.602	1.553	1.505	1.456	1.408	1.359	1.310	1.262	1.213
Hazardous waste	0.473	0.485	0.497	0.510	0.522	0.535	0.546	0.557	0.568	0.579	0.591	0.600	0.609	0.618	0.627	0.637	0.643	0.650	0.656	0.663	0.669

SE Region

CHART_01



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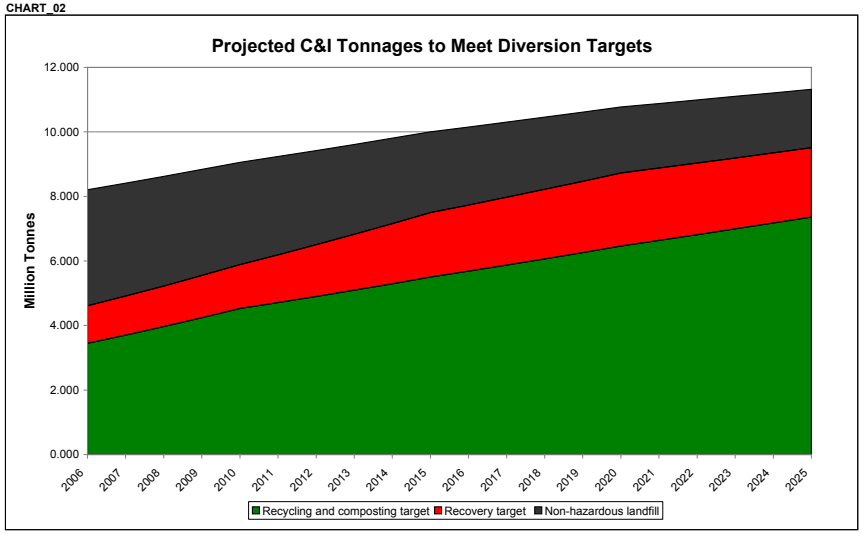

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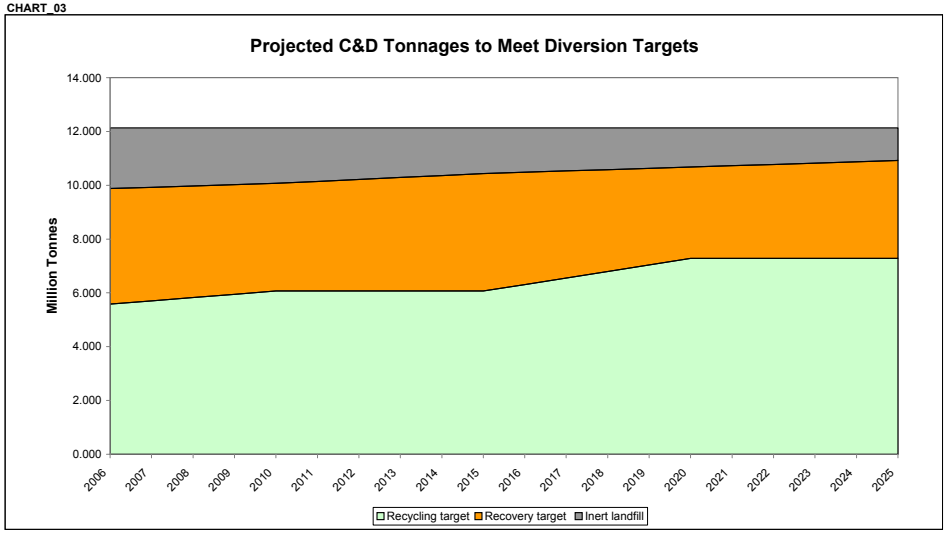

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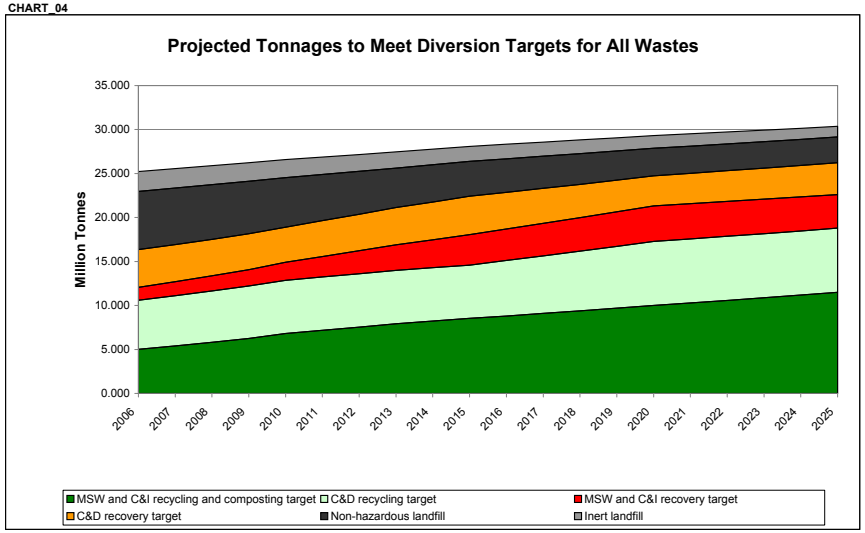
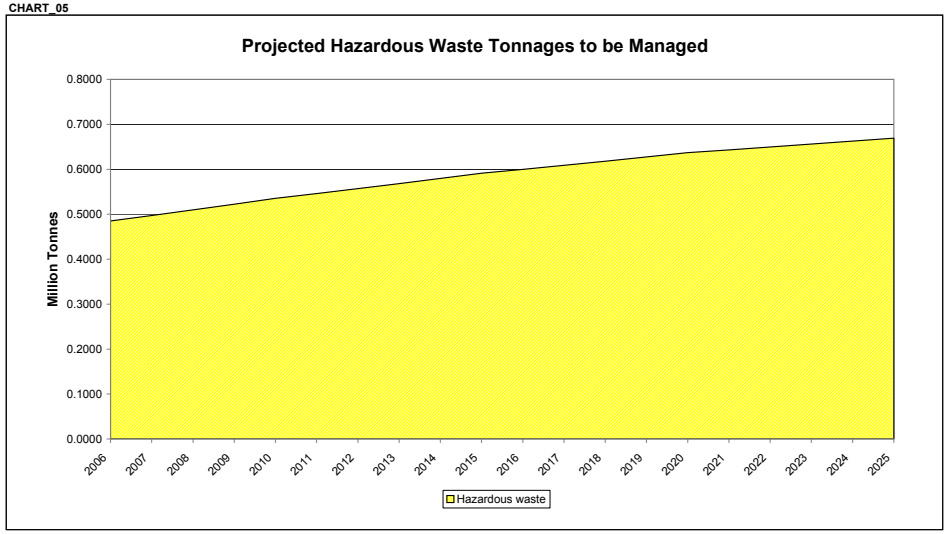


SE Region

CHART_05



DATA_07: EXISTING/PLANNED CAPACITY FOR RECYCLING, RECOVERY AND LANDFILLING AND TOTAL WASTE TONNAGES TO EACH DISPOSAL ROUTE (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
MSW and C&I recovery																					
MSW and C&I incineration (non-specialist)	0.992	0.992	0.992	0.992	0.992	0.992	0.992	0.992	0.992	0.992	0.992	0.992	0.992	0.992	0.992	0.992	0.992	0.992	0.992	0.992	0.992
MSW and C&I treatment	3.242	3.242	3.242	3.242	3.242	3.242	3.242	3.242	3.242	3.242	3.242	3.242	3.242	3.242	3.242	3.242	3.242	3.242	3.242	3.242	3.242
Total existing/planned MSW and C&I recovery capacity	4.234	4.234	4.234	4.234	4.234	4.234	4.234	4.234	4.234	4.234	4.234	4.234	4.234	4.234	4.234	4.234	4.234	4.234	4.234	4.234	4.234
Total MSW waste required to meet target	0.238	0.313	0.391	0.472	0.563	0.682	0.843	1.010	1.182	1.317	1.453	1.519	1.586	1.654	1.723	1.796	1.771	1.745	1.717	1.688	1.659
Total C&I waste required to meet target	1.121	1.165	1.211	1.259	1.308	1.359	1.478	1.602	1.730	1.863	2.000	2.050	2.102	2.154	2.208	2.262	2.241	2.220	2.198	2.175	2.151
Surplus/deficit capacity	2.875	2.756	2.632	2.503	2.363	2.193	1.912	1.621	1.321	1.054	0.781	0.665	0.546	0.426	0.303	0.175	0.221	0.269	0.319	0.370	0.423
MSW and C&I recycling and composting																					
MSW and C&I recycling	7.601	7.601	7.601	7.601	7.601	7.601	7.601	7.601	7.601	7.601	7.601	7.601	7.601	7.601	7.601	7.601	7.601	7.601	7.601	7.601	7.601
MSW and C&I transfer	13.946	13.946	13.946	13.946	13.946	13.946	13.946	13.946	13.946	13.946	13.946	13.946	13.946	13.946	13.946	13.946	13.946	13.946	13.946	13.946	13.946
Total existing/planned composting capacity	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711
(1) Total existing/planned MSW and C&I recycling and composting capacity (Baseline: 20% of transfer capacity delivers recycling)	11.101	11.101	11.101	11.101	11.101	11.101	11.101	11.101	11.101	11.101	11.101	11.101	11.101	11.101	11.101	11.101	11.101	11.101	11.101	11.101	11.101
(2) Total existing/planned MSW and C&I recycling and composting capacity (Sensitivity: 5% of transfer capacity delivers recycling)	9.009	9.009	9.009	9.009	9.009	9.009	9.009	9.009	9.009	9.009	9.009	9.009	9.009	9.009	9.009	9.009	9.009	9.009	9.009	9.009	9.009
Total MSW waste required to meet recycling and composting target	1.430	1.563	1.703	1.848	2.018	2.274	2.460	2.646	2.832	2.927	3.026	3.123	3.221	3.320	3.421	3.528	3.646	3.767	3.890	4.017	4.147
Total C&I waste required to meet recycling and composting target	3.202	3.446	3.701	3.966	4.242	4.529	4.712	4.900	5.094	5.294	5.500	5.684	5.872	6.065	6.262	6.464	6.637	6.814	6.993	7.175	7.360
Surplus/deficit capacity (Baseline: 20% of transfer capacity delivers recycling)	6.469	6.091	5.698	5.288	4.841	4.299	3.930	3.555	3.175	2.880	2.575	2.294	2.008	1.716	1.419	1.110	0.818	0.521	0.218	-0.090	-0.406
Surplus/deficit capacity (Sensitivity: 5% of transfer capacity delivers recycling)	4.377	4.000	3.606	3.196	2.749	2.207	1.838	1.463	1.083	0.788	0.483	0.202	-0.084	-0.376	-0.673	-0.982	-1.274	-1.571	-1.874	-2.182	-2.498
C&D recycling																					
Total existing/planned C&D recycling capacity	0.409	0.409	0.409	0.409	0.409	0.409	0.409	0.409	0.409	0.409	0.409	0.409	0.409	0.409	0.409	0.409	0.409	0.409	0.409	0.409	0.409
Total waste required to meet C&D recycling target	5.460	5.582	5.703	5.824	5.946	6.067	6.067	6.067	6.067	6.067	6.067	6.310	6.552	6.795	7.038	7.280	7.280	7.280	7.280	7.280	7.280
Surplus/deficit capacity	-5.051	-5.173	-5.294	-5.415	-5.537	-5.658	-5.658	-5.658	-5.658	-5.658	-5.658	-5.901	-6.143	-6.386	-6.629	-6.871	-6.871	-6.871	-6.871	-6.871	-6.871
C&D recovery																					
(3) REGIONAL total existing/planned C&D recovery capacity	1.877	1.794	1.710	1.627	1.544	1.460	1.439	1.418	1.398	1.377	1.356	1.325	1.293	1.262	1.231	1.199	1.220	1.241	1.262	1.283	1.304
Sub-regional total waste required to meet C&D recovery target	4.368	4.295	4.223	4.150	4.077	4.004	4.077	4.150	4.223	4.295	4.368	4.174	3.980	3.786	3.592	3.397	3.446	3.495	3.543	3.592	3.640
Surplus/deficit capacity	-2.491	-2.502	-2.512	-2.523	-2.533	-2.544	-2.638	-2.731	-2.825	-2.919	-3.012	-2.849	-2.687	-2.524	-2.361	-2.198	-2.226	-2.253	-2.281	-2.309	-2.336
Hazardous waste recycling																					
Total existing/planned hazardous waste recycling capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total hazardous waste to be recycled	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Surplus/deficit capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hazardous waste recovery																					
Total existing/planned hazardous waste recovery capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total hazardous waste to be recovered	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Surplus/deficit capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Non-hazardous landfill																					
Available non-hazardous landfill capacity (excluding residues from MSW and C&I recovery)		65.674	56.047	46.582	37.292	28.209	19.436	11.055	3.074	-4.499	-11.774	-18.743	-25.576	-32.268	-38.816	-45.217	-51.460	-57.686	-63.893	-70.082	-76.251
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'Incineration (non-specialist)'		65.618	55.769	46.064	36.514	27.150	18.071	9.342	0.969	-7.040	-14.792	-22.280	-29.648	-36.893	-44.012	-51.003	-57.855	-64.682	-71.484	-78.260	-85.009
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'MBT'		65.453	54.953	44.544	34.232	24.045	14.068	4.318	-5.205	-14.495	-23.647	-32.653	-41.592	-50.459	-59.254	-67.974	-76.612	-85.205	-93.751	-102.249	-110.698
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'RDF'		65.629	55.824	46.168	36.670	27.362	18.344	9.685	1.390	-6.532	-14.189	-21.573	-28.833	-35.968	-42.973	-49.846	-56.576	-63.283	-69.966	-76.624	-83.258
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'treatment'		65.505	55.213	45.027	34.958	25.033	15.342	5.916	-3.240	-12.123	-20.829	-29.353	-37.791	-46.142	-54.404	-62.574	-70.644	-78.675	-86.666	-94.616	-102.524
Total MSW and C&I waste sent direct to non-hazardous landfill		6.604	6.413	6.210	5.967	5.607	5.246	4.876	4.496	4.241	3.975	3.817	3.656	3.490	3.320	3.137	3.096	3.053	3.009	2.964	2.915
Inert landfill																					
Available inert landfill capacity (excluding residues from MSW and C&I recovery)		74.056	71.799	69.591	67.431	65.320	63.257	61.267	59.350	57.506	55.734	54.035	52.385	50.783	49.230	47.726	46.270	44.862	43.503	42.193	40.931
Available inert landfill capacity assuming all MSW and C&I recovery by 'Incineration (non-specialist)'		74.000	71.521	69.072	66.653	64.261	61.892	59.554	57.245	54.964	52.715	50.499	48.313	46.159	44.034	41.940	39.875	37.866	35.912	34.015	32.173
Total C&D waste sent direct to inert landfill (excludes residues from MSW and C&I recovery)	2.305	2.257	2.208	2.160	2.111	2.063	1.990	1.917	1.844	1.772	1.699	1.650	1.602	1.553	1.505	1.456	1.408	1.359	1.310	1.262	1.213
Hazardous landfill																					
Available hazardous landfill capacity		3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309
Total hazardous waste sent direct to hazardous landfill		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Other																					
Metal/ELV facility	4.117	4.118	4.118	4.118	4.118	4.118	4.118	4.118	4.118	4.118	4.118	4.118	4.118	4.118	4.118	4.118	4.118	4.118	4.118	4.118	4.118
Ignored	8.142	7.168	7.168	7.168	7.168	7.168	7.168	7.168	7.168	7.168	7.168	7.168	7.168	7.168	7.168	7.168	7.168	7.168	7.168	7.168	7.168
Closed	1.807	1.804	1.804	1.804	1.804	1.804	1.804	1.804	1.804	1.804	1.804	1.804	1.804	1.804	1.804	1.804	1.804	1.804	1.804	1.804	1.804

(1) ERM has assumed that 20% of the total "transfer' capacity will deliver recycling capacity
(2) ERM has assumed that 5% of the total "transfer' capacity will deliver recycling capacity
(3) Data for C&D recovery for landfill cover for the SE Region were sourced from the original MEL model, which sourced the data from Symonds (2001)
Note: The capacity model developed by ERM for this study does not include the capacity provided in the 'Others' group in its calculations because these are not relevant to the management of MSW, C&I and C&D. These data are included for the purposes of completeness.

SE Region

DATA_08: RESIDUE RATES (%)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Recovery residues (% by weight)																					
MSW and C&I incineration (non-specialist) - bottom ash	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
MSW and C&I incineration (non-specialist) - fly ash	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
MSW and C&I to MBT	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59
MSW and C&I to RDF	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
MSW and C&I treatment - non-hazardous	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45
MSW and C&I treatment - hazardous	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Hazardous waste recovery	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Recycling residues (% by weight)																					
MSW and C&I recycling	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
MSW and C&I transfer	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
MSW and C&I composting	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
C&D recycling	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Hazardous waste recycling	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Other																					
Metal/ELV facility	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Ignored	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Closed	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Note: All residues are calculated on the amount of waste arising not on the maount of capacity available. This is complaince with the self-sufficiency requirements of PPS10.

DATA_09: TOTAL RESIDUE (Million Tonnes)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Recovery residues (of waste managed):																					
MSW and C&I incineration (non-specialist) - bottom ash	0.408	0.443	0.481	0.519	0.561	0.612	0.696	0.784	0.874	0.954	1.036	1.071	1.106	1.142	1.179	1.217	1.204	1.189	1.174	1.159	1.143
MSW and C&I incineration (non-specialist) - fly ash	0.041	0.044	0.048	0.052	0.056	0.061	0.070	0.078	0.087	0.095	0.104	0.107	0.111	0.114	0.118	0.122	0.120	0.119	0.117	0.116	0.114
MSW and C&I to MBT	0.802	0.872	0.945	1.021	1.104	1.204	1.370	1.541	1.718	1.876	2.037	2.106	2.176	2.247	2.319	2.394	2.367	2.339	2.310	2.279	2.248
MSW and C&I to RDF	0.163	0.177	0.192	0.208	0.224	0.245	0.279	0.313	0.349	0.382	0.414	0.428	0.442	0.457	0.472	0.487	0.481	0.476	0.470	0.464	0.457
MSW and C&I treatment - non-hazardous	0.612	0.665	0.721	0.779	0.842	0.918	1.045	1.176	1.310	1.431	1.554	1.606	1.659	1.714	1.769	1.826	1.806	1.784	1.762	1.738	1.715
MSW and C&I treatment - hazardous	0.068	0.074	0.080	0.087	0.094	0.102	0.116	0.131	0.146	0.159	0.173	0.178	0.184	0.190	0.197	0.203	0.201	0.198	0.196	0.193	0.191
Hazardous waste recovery	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Recycling residues (of waste managed):																					
MSW and C&I recycling and composting	0.695	0.751	0.811	0.872	0.939	1.020	1.076	1.132	1.189	1.233	1.279	1.321	1.364	1.408	1.452	1.499	1.542	1.587	1.632	1.679	1.726
C&D recycling	0.546	0.558	0.570	0.582	0.595	0.607	0.607	0.607	0.607	0.607	0.607	0.631	0.655	0.679	0.704	0.728	0.728	0.728	0.728	0.728	0.728
Hazardous waste recycling	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Note: All residues are calculated on the amount of waste arising not on the maount of capacity available. This is complaince with the self-sufficiency requirements of PPS10.

DATA_10: TOTAL MSW AND C&I RESIDUE FROM RECYCLING SENT TO NON-HAZARDOUS LANDFILL (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Total MSW and C&I recycling and composting residue sent to non-hazardous landfill	1.241	1.310	1.381	1.454	1.534	1.627	1.682	1.739	1.796	1.840	1.886	1.952	2.019	2.087	2.156	2.227	2.270	2.315	2.360	2.407	2.454

DATA_11: TOTAL MSW AND C&I RESIDUE FROM RECOVERY SENT TO NON-HAZARDOUS LANDFILL AND C&D RECYCLING (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
SCENARIO 1 - Assumes all recovery is by 'Non-specialist incineration' (based on total recovery capacity)																					
(1) Total MSW and C&I residue sent to non-hazardous landfill assuming all MSW and C&I recovery by 'Non-specialist incineration'	0.204	0.222	0.240	0.260	0.281	0.306	0.348	0.392	0.437	0.477	0.518	0.535	0.553	0.571	0.590	0.609	0.602	0.595	0.587	0.579	0.572
(1) Total MSW and C&I residue sent to inert landfill assuming all MSW and C&I recovery by 'Non-specialist incineration'	0.204	0.222	0.240	0.260	0.281	0.306	0.348	0.392	0.437	0.477	0.518	0.535	0.553	0.571	0.590	0.609	0.602	0.595	0.587	0.579	0.572
SCENARIO 2 - Assumes all recovery is by 'MBT' (based on total recovery capacity)																					
Total MSW and C&I residue sent to non-hazardous landfill	0.802	0.872	0.945	1.021	1.104	1.204	1.370	1.541	1.718	1.876	2.037	2.106	2.176	2.247	2.319	2.394	2.367	2.339	2.310	2.279	2.248
SCENARIO 3 - Assumes all recovery is by 'RDF' (based on total recovery capacity)																					
Total MSW and C&I residue sent to non-hazardous landfill	0.163	0.177	0.192	0.208	0.224	0.245	0.279	0.313	0.349	0.382	0.414	0.428	0.442	0.457	0.472	0.487	0.481	0.476	0.470	0.464	0.457
SCENARIO 4 - Assumes all recovery is by 'treatment' (based on total recovery capacity)																					
(2) Total MSW and C&I residue sent to non-hazardous landfill	0.612	0.665	0.721	0.779	0.842	0.918	1.045	1.176	1.310	1.431	1.554	1.606	1.659	1.714	1.769	1.826	1.806	1.784	1.762	1.738	1.715

(1) It was assumed that 50% of residue from 'non-specialist incineration' is sent to non-hazardous landfill and 50% is sent to inert landfill. In the original model assumptions developed MEL 50% was assumed to go to C&D recycling, rather than to inert landfi

DATA_12: TONNAGES OF C&D REUSED ON NON-HAZARDOUS AND INERT LANDFILL (Million Tonnes)

(1) C&D reused on landfill sites	39 %
(1) C&D reused on exempt sites	61 %
(1) C&D reused on landfill sites sent to 'non-haz landfill'	30 %
(1) C&D reused on landfill sites sent to 'inert landfill'	70 %

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
c&d	Total C&D reused on non-hazardous landfill	0.508	0.500	0.491	0.483	0.474	0.466	0.474	0.483	0.491	0.500	0.508	0.486	0.463	0.441	0.418	0.395	0.401	0.407	0.412	0.418	0.424
	Total reused C&D on inert landfill	1.186	1.166	1.147	1.127	1.107	1.087	1.107	1.127	1.147	1.166	1.186	1.133	1.081	1.028	0.975	0.923	0.936	0.949	0.962	0.975	0.988

(1) C&D reuse rates based on original model assumptions developed MEL
NOTE: C&D reuse on inert and non-hazardous landfill is not included within the charts because it has been assumed that data supplied by each sub-region has accounted for C&D reuse as an engineering material.

DATA_13: TOTAL MSW AND C&I RESIDUE FROM RECYCLING SENT TO HAZARDOUS LANDFILL (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Total MSW and C&I recycling and composting residue sent to hazardous landfill	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

DATA_14: TOTAL MSW AND C&I RESIDUE FROM RECOVERY SENT TO HAZARDOUS LANDFILL (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
SCENARIO 1 - Assumes all recovery is by 'Non-specialist incineration' (based on total recovery capacity)																					
Total MSW and C&I residue sent to hazardous landfill assuming all MSW and C&I recovery by 'Non-specialist incineration'	0.041	0.044	0.048	0.052	0.056	0.061	0.070	0.078	0.087	0.095	0.104	0.107	0.111	0.114	0.118	0.122	0.120	0.119	0.117	0.116	0.114
SCENARIO 2 - Assumes all recovery is by 'MBT' (based on total recovery capacity)																					
Total MSW and C&I residue sent to hazardous landfill	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SCENARIO 3 - Assumes all recovery is by 'RDF' (based on total recovery capacity)																					
Total MSW and C&I residue sent to hazardous landfill	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SCENARIO 4 - Assumes all recovery is by 'treatment' (based on total recovery capacity)																					
Total MSW and C&I residue sent to hazardous landfill	0.068	0.074	0.080	0.087	0.094	0.102	0.116	0.131	0.146	0.159	0.173	0.178	0.184	0.190	0.197	0.203	0.201	0.198	0.196	0.193	0.191

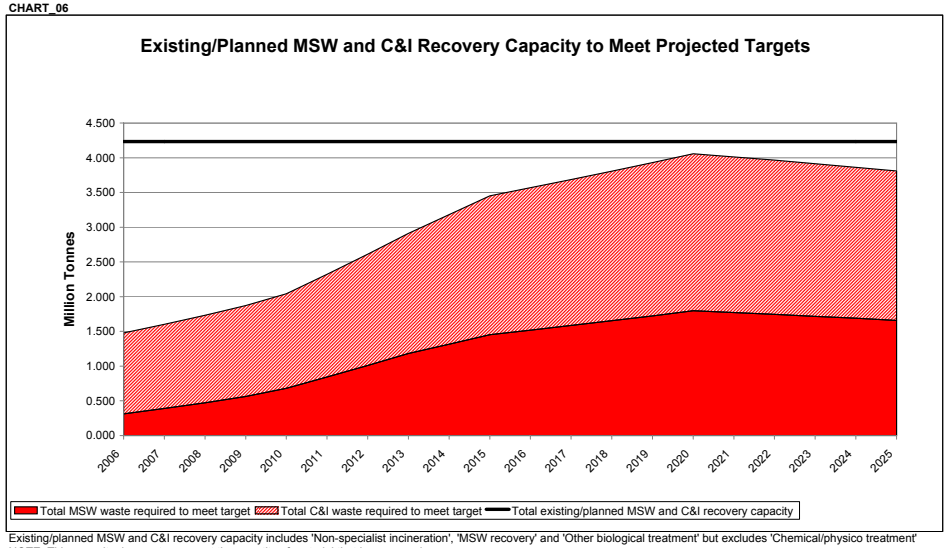
NOTE: This element of the model is redundant. There is currently no hazardous waste capacity figures to generate a chart of managed waste versus available capacity.

DATA_15: TOTAL HAZARDOUS WASTE RESIDUE FROM RECOVERY AND RECYCLING SENT TO HAZARDOUS LANDFILL (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Total hazardous waste recycling and recovery residue sent to hazardous landfill	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

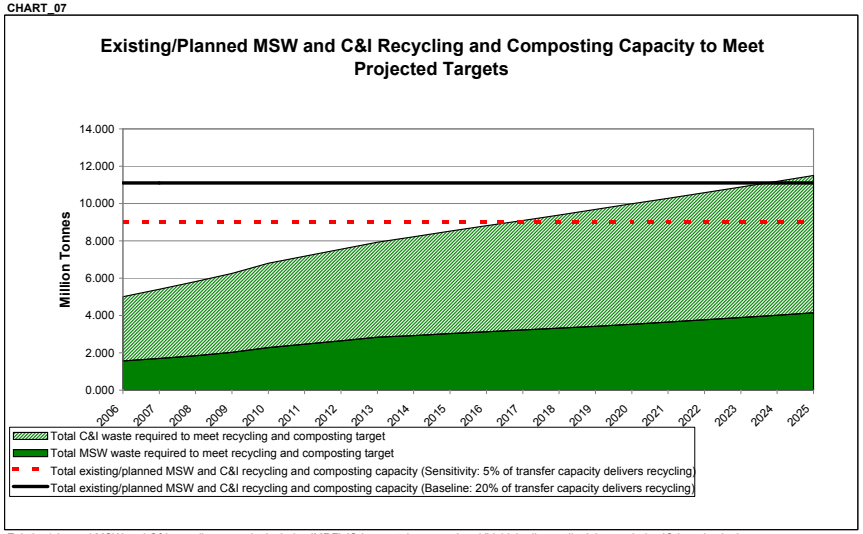
SE Region

CHART_06



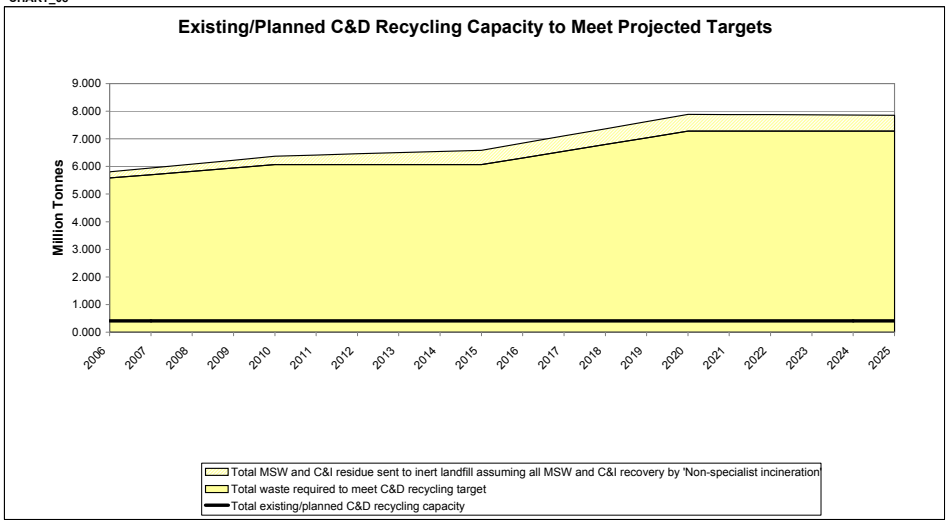
Existing/planned MSW and C&I recovery capacity includes 'Non-specialist incineration', 'MSW recovery' and 'Other biological treatment' but excludes 'Chemical/physico treatment'
NOTE: This capacity does not represent the quantity of material that is recovered.
NOTE: The original MEL model assumes that 'MSW recovery' capacity is incineration - but this is not made explicit.

CHART_07



Existing/planned MSW and C&I recycling capacity includes 'MRF', 'Other metal recovery' and 'Vehicle dismantling', but excludes 'Other physical treatment' (because this category includes CA sites)
NOTE: This capacity does not represent the quantity of material that is recycled and composted.

CHART_08



SE Region

CHART_09

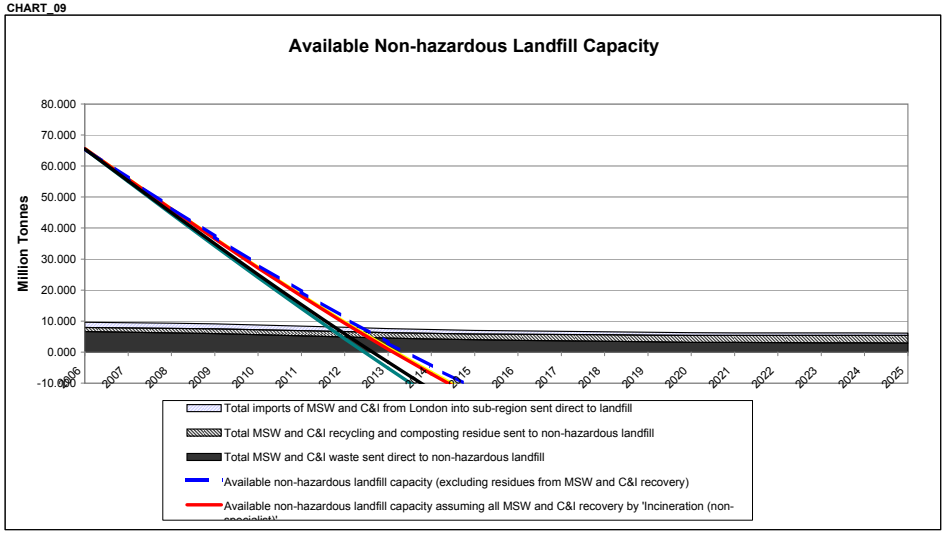


CHART_10

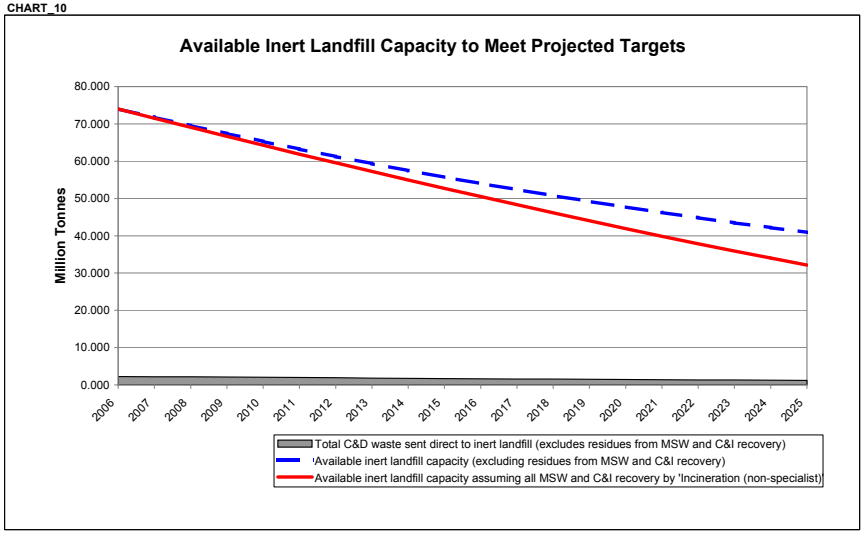
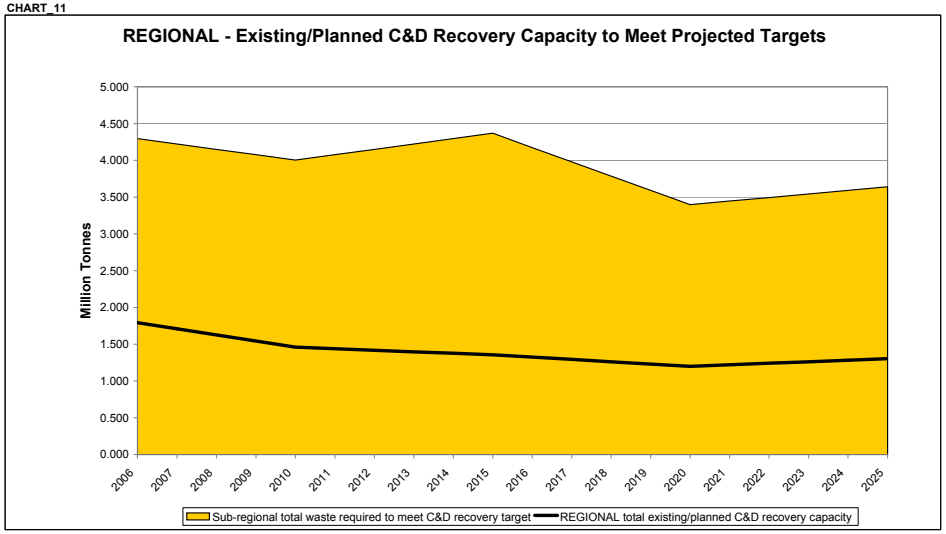


CHART_11



Berkshire

SUMMARY DATA AND RESULTS FOR BERKSHIRE

MANAGED WASTE USED TO GENERATE RESULTS (Million Tonnes)	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	0.475	0.487	0.499	0.512	0.525	0.535	0.546	0.557	0.568	0.579	0.588	0.597	0.606	0.615	0.624	0.633	0.643	0.652	0.662	0.672
msw - imports from london that are sent direct to non-hazardous landfill	0.055	0.054	0.052	0.051	0.049	0.047	0.044	0.041	0.038	0.036	0.034	0.033	0.031	0.030	0.028	0.028	0.027	0.027	0.026	0.025
c&i	0.784	0.804	0.824	0.844	0.865	0.883	0.900	0.918	0.937	0.956	0.970	0.984	0.999	1.014	1.029	1.040	1.050	1.061	1.071	1.082
c&i - imports from london that are sent direct to non-hazardous landfill	0.091	0.088	0.086	0.084	0.082	0.077	0.072	0.068	0.063	0.059	0.056	0.054	0.051	0.049	0.047	0.045	0.044	0.043	0.042	0.041
c&d	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801
hazardous	0.039	0.040	0.041	0.042	0.043	0.044	0.045	0.046	0.047	0.048	0.048	0.049	0.050	0.051	0.051	0.052	0.052	0.053	0.053	0.054

WASTE STREAM TONNAGES TO MEET TARGETS (Million Tonnes)		2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	LATS shortfall (how much extra is landfilled above LATS target)	-0.072	-0.064	-0.052	-0.036	-0.015	-0.007	*0.001*	*0.008*	-0.001	-0.011	-0.011	-0.012	-0.013	-0.014	-0.015	-0.014	-0.014	-0.014	-0.014	-0.014
	Recycling and composting target	0.152	0.166	0.180	0.194	0.210	0.225	0.241	0.261	0.273	0.290	0.300	0.310	0.321	0.332	0.343	0.355	0.366	0.378	0.391	0.403
	Recovery target	0.030	0.038	0.046	0.054	0.063	0.077	0.092	0.109	0.123	0.139	0.146	0.153	0.160	0.167	0.175	0.172	0.170	0.167	0.164	0.161
	Non-hazardous landfill	0.293	0.283	0.274	0.263	0.252	0.233	0.213	0.186	0.173	0.151	0.142	0.134	0.125	0.116	0.106	0.106	0.107	0.107	0.107	0.108
c&i	Recycling and composting target	0.329	0.354	0.379	0.405	0.433	0.450	0.468	0.487	0.506	0.526	0.543	0.561	0.580	0.598	0.618	0.634	0.651	0.668	0.686	0.703
	Recovery target	0.111	0.116	0.120	0.125	0.130	0.141	0.153	0.165	0.178	0.191	0.196	0.201	0.206	0.211	0.216	0.214	0.212	0.210	0.208	0.206
	Non-hazardous landfill	0.343	0.334	0.325	0.314	0.303	0.291	0.279	0.266	0.253	0.239	0.231	0.222	0.214	0.205	0.196	0.191	0.187	0.182	0.178	0.173
c&d	Recycling target	0.829	0.847	0.865	0.883	0.901	0.901	0.901	0.901	0.901	0.901	0.937	0.973	1.009	1.045	1.081	1.081	1.081	1.081	1.081	1.081
	Recovery target	0.638	0.627	0.616	0.605	0.594	0.605	0.616	0.627	0.638	0.649	0.620	0.591	0.562	0.533	0.504	0.512	0.519	0.526	0.533	0.540
	Inert landfill	0.335	0.328	0.321	0.313	0.306	0.295	0.285	0.274	0.263	0.252	0.245	0.238	0.231	0.223	0.216	0.209	0.202	0.195	0.187	0.180
hazardous	Hazardous waste	0.039	0.040	0.041	0.042	0.043	0.044	0.045	0.046	0.047	0.048	0.048	0.049	0.050	0.051	0.051	0.052	0.052	0.053	0.053	0.054

Note: If there is a LATS shortfall, denoted by a positive number, (ie insufficient allowance to landfill non-diverted waste) then the model assumes that this extra waste is recycled/composted and recovered at the same ratio as the regional targets for recycling/composting and recovery for that year.

EXISTING/PLANNED CAPACITY FOR RECYCLING, RECOVERY AND LANDFILLING AND TOTAL WASTE TONNAGES TO EACH DISPOSAL ROUTE (Million Tonnes)	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
MSW and C&I recovery																				
Total existing/planned MSW and C&I recovery capacity	0.360	0.360	0.360	0.360	0.360	0.360	0.360	0.360	0.360	0.360	0.360	0.360	0.360	0.360	0.360	0.360	0.360	0.360	0.360	0.360
Surplus/deficit capacity	0.218	0.206	0.194	0.181	0.167	0.141	0.115	0.085	0.059	0.030	0.018	0.006	-0.006	-0.018	-0.031	-0.027	-0.022	-0.017	-0.012	-0.007
MSW and C&I recycling and composting																				
Total existing/planned MSW and C&I recycling and composting capacity (Baseline: 20% of transfer capacity delivers recycling)	0.840	0.840	0.840	0.840	0.840	0.840	0.840	0.840	0.840	0.840	0.840	0.840	0.840	0.840	0.840	0.840	0.840	0.840	0.840	0.840
Total existing/planned MSW and C&I recycling and composting capacity (Sensitivity: 5% of transfer capacity delivers recycling)	0.687	0.687	0.687	0.687	0.687	0.687	0.687	0.687	0.687	0.687	0.687	0.687	0.687	0.687	0.687	0.687	0.687	0.687	0.687	0.687
Surplus/deficit capacity (Baseline: 20% of transfer capacity delivers recycling)	0.359	0.321	0.281	0.240	0.198	0.165	0.131	0.092	0.062	0.025	-0.003	-0.031	-0.060	-0.090	-0.121	-0.149	-0.177	-0.206	-0.236	-0.266
Surplus/deficit capacity (Sensitivity: 5% of transfer capacity delivers recycling)	0.206	0.168	0.128	0.087	0.044	0.012	-0.022	-0.061	-0.091	-0.128	-0.156	-0.184	-0.213	-0.243	-0.274	-0.302	-0.330	-0.360	-0.389	-0.419
C&D recycling																				
Total existing/planned C&D recycling capacity	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064
Surplus/deficit capacity	-0.764	-0.782	-0.800	-0.818	-0.836	-0.836	-0.836	-0.836	-0.836	-0.836	-0.872	-0.908	-0.944	-0.980	-1.016	-1.016	-1.016	-1.016	-1.016	-1.016
C&D recovery																				
REGIONAL total existing/planned C&D recovery capacity	1.794	1.710	1.627	1.544	1.460	1.439	1.418	1.398	1.377	1.356	1.325	1.293	1.262	1.231	1.199	1.220	1.241	1.262	1.283	1.304
Surplus/deficit capacity	1.156	1.083	1.011	0.938	0.866	0.834	0.802	0.771	0.739	0.707	0.705	0.702	0.700	0.697	0.695	0.709	0.722	0.736	0.750	0.763
Hazardous waste recycling																				
Total existing/planned hazardous waste recycling capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Surplus/deficit capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hazardous waste recovery																				
Total existing/planned hazardous waste recovery capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Surplus/deficit capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Non-hazardous landfill																				
Available non-hazardous landfill capacity (excluding residues from MSW and C&I recovery)	0.055	-0.882	-1.805	-2.711	-3.601	-4.473	-5.313	-6.118	-6.882	-7.616	-8.312	-8.996	-9.666	-10.323	-10.967	-11.595	-12.222	-12.848	-13.472	-14.095
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'Incineration (non-specialist)'	0.055	-0.903	-1.849	-2.781	-3.698	-4.599	-5.471	-6.313	-7.117	-7.897	-8.642	-9.377	-10.101	-10.813	-11.513	-12.200	-12.885	-13.568	-14.249	-14.927
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'MBT'	0.055	-0.966	-1.979	-2.984	-3.980	-4.965	-5.934	-6.883	-7.809	-8.720	-9.611	-10.496	-11.376	-12.249	-13.115	-13.974	-14.829	-15.680	-16.527	-17.369
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'RDF'	0.055	-0.899	-1.840	-2.767	-3.678	-4.574	-5.439	-6.274	-7.070	-7.840	-8.576	-9.301	-10.014	-10.715	-11.403	-12.079	-12.753	-13.424	-14.094	-14.761
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'treatment'	0.055	-0.946	-1.938	-2.919	-3.890	-4.849	-5.786	-6.702	-7.589	-8.458	-9.303	-10.140	-10.970	-11.792	-12.605	-13.410	-14.211	-15.008	-15.802	-16.592
Inert landfill																				
Available inert landfill capacity	0.181	-0.154	-0.481	-0.802	-1.116	-1.422	-1.717	-2.002	-2.276	-2.539	-2.791	-3.036	-3.274	-3.504	-3.728	-3.944	-4.153	-4.355	-4.549	-4.737
Available inert landfill capacity assuming all MSW and C&I recovery by 'Incineration (non-specialist)'	0.181	-0.175	-0.526	-0.871	-1.212	-1.547	-1.875	-2.196	-2.511	-2.820	-3.121	-3.418	-3.708	-3.994	-4.274	-4.549	-4.816	-5.075	-5.326	-5.569
Hazardous landfill																				
Available hazardous landfill capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Note: The model does not contain data for the management of hazardous waste.																				

DATA_01: ARISINGS AND GROWTH RATES OF MSW, C&I AND HAZARDOUS WASTE (Million Tonnes)		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	Arisings of MSW in baseline year																					
	(1) Forecast regional level growth rate of MSW - per year (%)	3.0%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%
	(1) Forecast regional level growth rate of MSW - cumulative (%)	106%	109%	111%	114%	117%	120%	122%	125%	127%	130%	133%	135%	137%	139%	141%	143%	145%	147%	149%	152%	154%
	Total arisings of MSW using regional growth forecasts	0.464	0.475	0.487	0.499	0.512	0.525	0.535	0.546	0.557	0.568	0.579	0.588	0.597	0.606	0.615	0.624	0.633	0.643	0.652	0.662	0.672
	(1) Forecast sub-regional growth rate of MSW - per year (%)	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%
	(1) Forecast sub-regional level growth rate of MSW - cumulative (%)	104%	106%	108%	110%	113%	115%	117%	120%	122%	124%	127%	129%	131%	133%	135%	137%	139%	141%	143%	145%	147%
	Total arisings of MSW using sub-regional growth forecasts	0.455	0.464	0.473	0.482	0.492	0.502	0.512	0.522	0.533	0.543	0.554	0.563	0.571	0.580	0.588	0.597	0.606	0.615	0.624	0.634	0.643
c&i	Arisings of C&I in baseline year																					
	(1) Forecast regional level growth rate of C&I - per year (%)	3.3%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.0%	1.0%	1.0%	1.0%	1.0%
	(1) Forecast regional level growth rate of C&I - cumulative (%)	117%	120%	123%	126%	130%	133%	136%	138%	141%	144%	147%	149%	151%	153%	156%	158%	160%	161%	163%	164%	166%
	Total arisings of C&I using regional growth forecasts	0.765	0.784	0.804	0.824	0.844	0.865	0.883	0.900	0.918	0.937	0.956	0.970	0.984	0.999	1.014	1.029	1.040	1.050	1.061	1.071	1.082
	(1) Forecast sub-regional level growth rate of C&I - per year (%)	3.3%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.0%	1.0%	1.0%	1.0%	1.0%
	(1) Forecast sub-regional level growth rate of C&I - cumulative (%)	117%	120%	123%	126%	130%	133%	136%	138%	141%	144%	147%	149%	151%	153%	156%	158%	160%	161%	163%	164%	166%
	Total arisings of C&I using sub-regional growth forecasts	0.765	0.784	0.804	0.824	0.844	0.865	0.883	0.900	0.918	0.937	0.956	0.970	0.984	0.999	1.014	1.029	1.040	1.050	1.061	1.071	1.082
hazardous	Arisings of hazardous waste in baseline year																					
	(2) Forecast regional level growth rate of hazardous waste - per year (%)	3.3%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.0%	1.0%	1.0%	1.0%	1.0%
	Forecast regional level growth rate of hazardous waste - cumulative (%)	107%	109%	112%	115%	118%	121%	123%	126%	128%	131%	133%	135%	137%	139%	141%	144%	145%	146%	148%	149%	151%
	Total arisings of hazardous waste	0.038	0.039	0.040	0.041	0.042	0.043	0.044	0.045	0.046	0.047	0.048	0.048	0.049	0.050	0.051	0.051	0.052	0.052	0.053	0.053	0.054
	(2) Forecast sub-regional level growth rate of hazardous waste - per year (%)	3.3%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.0%	1.0%	1.0%	1.0%	1.0%
	Forecast sub regional level growth rate of hazardous waste - cumulative (%)	107%	109%	112%	115%	118%	121%	123%	126%	128%	131%	133%	135%	137%	139%	141%	144%	145%	146%	148%	149%	151%
	Total arisings of hazardous waste	0.038	0.039	0.040	0.041	0.042	0.043	0.044	0.045	0.046	0.047	0.048	0.048	0.049	0.050	0.051	0.051	0.052	0.052	0.053	0.053	0.054
c&d	Total managed C&D in baseline year																					
	(3) Forecast regional-level growth rate of managed C&D - per year (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Forecast regional-level growth rate of managed C&D - cumulative (%)	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
	(3) Total managed of C&D for the sub-region	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801

(1) Figures from SEERA updated waste capacity model by ERM in 2005.
(2) Baseline year of hazardous waste arisings is 2003 from EA Hazardous Waste Interrogator. www.environment-agency.gov.uk/apps/wastesurvey2/. ERM has assumed that growth in hazardous waste is equal to C&I waste.
(3) These data represent managed C&D waste in the sub-region, including all intra-regional and inter-regional movements. Growth is assumed to be zero from the orginal MEL study and updated modeted by ERM in 2005.
NOTE: C&D waste is not included in arisings because this was taken from survey data by Symonds 2001 which gave values for managed C&D waste.

Berkshire

Figures in blue represent data supplied by each sub-region for the new '2006 SEERA Capacity and Need Model'
Figures in orange represent managed waste that are used by the model to calculate results. These can be adjusted for different scenarios.

DATA_02: INTER REGIONAL MOVEMENTS OF MSW and C&I (Million Tonnes)		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw and c&i	Regional level imports of MSW and C&I waste into the SE region from London	1.76	1.716	1.672	1.628	1.584	1.54	1.454	1.368	1.282	1.196	1.11	1.064	1.018	0.972	0.926	0.88	0.86	0.84	0.82	0.8	0.78
	Proportion of regional MSW and C&I imports that go to the sub-region (%)	8.5%	8.5%	8.5%	8.5%	8.5%	8.5%	8.5%	8.5%	8.5%	8.5%	8.5%	8.5%	8.5%	8.5%	8.5%	8.5%	8.5%	8.5%	8.5%	8.5%	8.5%
	(1) Total imports of MSW and C&I from London into sub-region sent direct to landfill	0.150	0.146	0.142	0.138	0.135	0.131	0.124	0.116	0.109	0.102	0.094	0.090	0.087	0.083	0.079	0.075	0.073	0.071	0.070	0.068	0.066
msw	Proportion of total MSW and C&I imports that are MSW (%) - REGIONAL GROWTH FORECAST	38%	38%	38%	38%	38%	38%	38%	38%	38%	38%	38%	38%	38%	38%	38%	38%	38%	38%	38%	38%	38%
	Total imports of MSW into the sub-region from London - REGIONAL GROWTH FORECAST	0.056	0.055	0.054	0.052	0.051	0.049	0.047	0.044	0.041	0.038	0.036	0.034	0.033	0.031	0.030	0.028	0.028	0.027	0.027	0.026	0.025
	Proportion of total MSW and C&I imports that are MSW (%) - SUB-REGIONAL GROWTH FORECAST	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%
	Total imports of MSW into the sub-region from London - SUB-REGIONAL GROWTH FORECAST	0.056	0.054	0.053	0.051	0.050	0.048	0.045	0.043	0.040	0.037	0.035	0.033	0.032	0.030	0.029	0.027	0.027	0.026	0.026	0.025	0.025
c&i	Proportion of total MSW and C&I imports that are C&I (%) - REGIONAL GROWTH FORECAST	62%	62%	62%	62%	62%	62%	62%	62%	62%	62%	62%	62%	62%	62%	62%	62%	62%	62%	62%	62%	62%
	Total imports of C&I into the sub-region from London - REGIONAL GROWTH FORECAST	0.093	0.091	0.088	0.086	0.084	0.082	0.077	0.072	0.068	0.063	0.059	0.056	0.054	0.051	0.049	0.047	0.045	0.044	0.043	0.042	0.041
	Proportion of total MSW and C&I imports that are C&I (%) - SUB-REGIONAL GROWTH FORECAST	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%
	Total imports of C&I into the sub-region from London - SUB-REGIONAL GROWTH FORECAST	0.094	0.092	0.089	0.087	0.085	0.083	0.078	0.074	0.069	0.064	0.060	0.057	0.055	0.052	0.050	0.047	0.046	0.045	0.044	0.043	0.042

(1) Intra-regional and inter-regional movements have been excluded for MSW and C&I waste due to self-sufficiency requirements under PPS10, except for inter-regional movements from London into the sub-region. Apportionment from Policy W3 in the Plan – downloa
Note: Only a figure is available for total combined imports of MSW and C&I waste. ERM has assumed that imports of the seperate waste streams of MSW and C&I was split according to tonnage arisings of MSW and C&I in the sub-region.

DATA_03: MANAGED WASTE USED TO GENERATE RESULTS (Million Tonnes)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	0.464	0.475	0.487	0.499	0.512	0.525	0.535	0.546	0.557	0.568	0.579	0.588	0.597	0.606	0.615	0.624	0.633	0.643	0.652	0.662	0.672
msw - imports from london that are sent direct to non-hazardous landfill	0.056	0.055	0.054	0.052	0.051	0.049	0.047	0.044	0.041	0.038	0.036	0.034	0.033	0.031	0.030	0.028	0.028	0.027	0.027	0.026	0.025
c&i	0.765	0.784	0.804	0.824	0.844	0.865	0.883	0.900	0.918	0.937	0.956	0.970	0.984	0.999	1.014	1.029	1.040	1.050	1.061	1.071	1.082
c&i - imports from london that are sent direct to non-hazardous landfill	0.093	0.091	0.088	0.086	0.084	0.082	0.077	0.072	0.068	0.063	0.059	0.056	0.054	0.051	0.049	0.047	0.045	0.044	0.043	0.042	0.041
c&d	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801
hazardous	0.038	0.039	0.040	0.041	0.042	0.043	0.044	0.045	0.046	0.047	0.048	0.048	0.049	0.050	0.051	0.051	0.052	0.052	0.053	0.053	0.054

DATA_04: TARGETS (% or Million Tonnes)		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	(1) landfill (Mt)	0.281	0.271	0.257	0.238	0.215	0.186	0.165	0.145	0.124	0.119	0.113	0.108	0.103	0.097	0.092	0.087	0.087	0.087	0.087	0.087	0.087
	recovered (%)	5	6.4	7.8	9.2	10.6	12	14.4	16.8	19.2	21.6	24	24.8	25.6	26.4	27.2	28	27.2	26.4	25.6	24.8	24
	recycled and composted (%)	30	32.0	34.0	36.0	38.0	40	42.0	44.0	46.0	48.0	50	51.0	52.0	53.0	54.0	55	56.0	57.0	58.0	59.0	60
c&i	recovered (%)	14	14.2	14.4	14.6	14.8	15	16.0	17.0	18.0	19.0	20	20.2	20.4	20.6	20.8	21	20.6	20.2	19.8	19.4	19
	recycled and composted (%)	40	42.0	44.0	46.0	48.0	50	51.0	52.0	53.0	54.0	55	56.0	57.0	58.0	59.0	60	61.0	62.0	63.0	64.0	65
c&d	recovered (%)	36	35.4	34.8	34.2	33.6	33	33.6	34.2	34.8	35.4	36	34.4	32.8	31.2	29.6	28	28.4	28.8	29.2	29.6	30
	recycled (%)	45	46.0	47.0	48.0	49.0	50	50.0	50.0	50.0	50.0	50	52.0	54.0	56.0	58.0	60	60.0	60.0	60.0	60.0	60
hazardous	landfill (%)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	recovered (%)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	recycled (%)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

(1) ERM has assumed that the LATS target allowance remains constant at the 2020 value for the years beyond 2020

DATA_05: WASTE STREAM TONNAGES TO MEET TARGETS (Million Tonnes)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025

This first section of DATA_03 calculates if there is a LATS shortfall or suplus in each year. If there is a LATS shortfall (ie insufficient allowance to landfill non-diverted waste) then the model assumes that this extra waste is recycled/composted and r

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	Total MSW to be recovered and recycled/composted to meet target	0.162	0.182	0.204	0.226	0.249	0.273	0.302	0.332	0.363	0.395	0.429	0.446	0.463	0.481	0.499	0.518	0.527	0.536	0.545	0.555	0.565
	Total MSW not-diverted by targets	0.301	0.293	0.283	0.274	0.263	0.252	0.233	0.214	0.194	0.173	0.151	0.142	0.134	0.125	0.116	0.106	0.106	0.107	0.107	0.107	0.108
	Percentage of MSW that is biodegradable (% by weight)	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68
	Total BMW not-diverted by targets	0.205	0.199	0.193	0.186	0.179	0.171	0.159	0.145	0.132	0.117	0.102	0.097	0.091	0.085	0.079	0.072	0.072	0.073	0.073	0.073	0.073
	LATS shortfall (how much extra is landfilled above LATS target)	-0.076	-0.072	-0.064	-0.052	-0.036	-0.015	-0.007	0.001	0.008	-0.001	-0.011	-0.011	-0.012	-0.013	-0.014	-0.015	-0.014	-0.014	-0.014	-0.014	-0.014
	Ratio of 'recovered' to 'recycled/composted' for target (%)	14%	17%	19%	20%	22%	23%	26%	28%	29%	31%	32%	33%	33%	33%	33%	34%	33%	32%	31%	30%	29%
	Extra MSW 'recovery' needed due to LATS shortfall	0.000	0.000	0.000	0.000	0.000	0.000	0.000	*0.000*	*0.002*	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Extra MSW 'recycling/composting' needed due to LATS shortfall	0.000	0.000	0.000	0.000	0.000	0.000	0.000	*0.001*	*0.005*	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

The section below in DATA_03 shows the tonnages by waste to meet targets.

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	Recycling and composting target	0.139	0.152	0.166	0.180	0.194	0.210	0.225	0.241	0.261	0.273	0.290	0.300	0.310	0.321	0.332	0.343	0.355	0.366	0.378	0.391	0.403
	Recovery target	0.023	0.030	0.038	0.046	0.054	0.063	0.077	0.092	0.109	0.123	0.139	0.146	0.153	0.160	0.167	0.175	0.172	0.170	0.167	0.164	0.161
	Non-hazardous landfill	0.301	0.293	0.283	0.274	0.263	0.252	0.233	0.213	0.186	0.173	0.151	0.142	0.134	0.125	0.116	0.106	0.106	0.107	0.107	0.107	0.108
	CHECK COUNTER (should be zero)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
c&i	Recycling and composting target	0.306	0.329	0.354	0.379	0.405	0.433	0.450	0.468	0.487	0.506	0.526	0.543	0.561	0.580	0.598	0.618	0.634	0.651	0.668	0.686	0.703
	Recovery target	0.107	0.111	0.116	0.120	0.125	0.130	0.141	0.153	0.165	0.178	0.191	0.196	0.201	0.206	0.211	0.216	0.214	0.212	0.210	0.208	0.206
	Non-hazardous landfill	0.352	0.343	0.334	0.325	0.314	0.303	0.291	0.279	0.266	0.253	0.239	0.231	0.222	0.214	0.205	0.196	0.191	0.187	0.182	0.178	0.173
	CHECK COUNTER (should be zero)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
c&d	Recycling target	0.811	0.829	0.847	0.865	0.883	0.901	0.901	0.901	0.901	0.901	0.901	0.937	0.973	1.009	1.045	1.081	1.081	1.081	1.081	1.081	1.081
	Recovery target	0.649	0.638	0.627	0.616	0.605	0.594	0.605	0.616	0.627	0.638	0.649	0.620	0.591	0.562	0.533	0.504	0.512	0.519	0.526	0.533	0.540
	Inert landfill	0.342	0.335	0.328	0.321	0.313	0.306	0.295	0.285	0.274	0.263	0.252	0.245	0.238	0.231	0.223	0.216	0.209	0.202	0.195	0.187	0.180
	CHECK COUNTER (should be zero)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
hazardous	Hazardous waste	0.038	0.039	0.040	0.041	0.042	0.043	0.044	0.045	0.046	0.047	0.048	0.048	0.049	0.050	0.051	0.051	0.052	0.052	0.053	0.053	0.054

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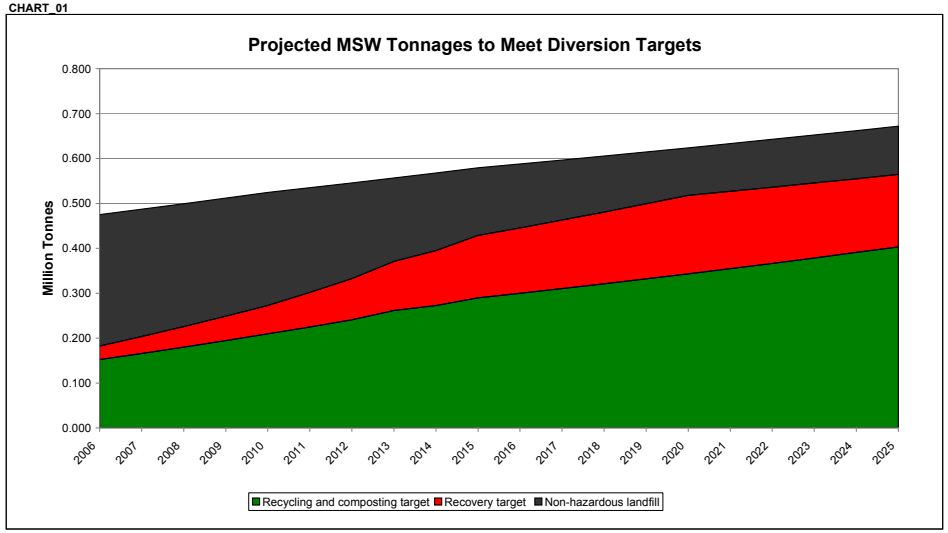
DATA_06: TOTAL WASTE TONNAGES TO MEET TARGETS (Million Tonnes)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
MSW and C&I recycling and composting target	0.445	0.481	0.519	0.559	0.600	0.643	0.675	0.709	0.748	0.778	0.815	0.843	0.871	0.901	0.930	0.961	0.989	1.017	1.047	1.076	1.107
C&D recycling target	0.811	0.829	0.847	0.865	0.883	0.901	0.901	0.901	0.901	0.901	0.901	0.937	0.973	1.009	1.045	1.081	1.081	1.081	1.081	1.081	1.081
MSW and C&I recovery target	0.130	0.142	0.154	0.166	0.179	0.193	0.218	0.245	0.274	0.301	0.330	0.342	0.354	0.366	0.378	0.391	0.386	0.382	0.377	0.372	0.367
C&D recovery target	0.649	0.638	0.627	0.616	0.605	0.594	0.605	0.616	0.627	0.638	0.649	0.620	0.591	0.562	0.533	0.504	0.512	0.519	0.526	0.533	0.540
Non-hazardous landfill	0.653	0.636	0.618	0.598	0.577	0.555	0.525	0.492	0.452	0.426	0.389	0.373	0.356	0.339	0.320	0.302	0.298	0.294	0.289	0.285	0.281
Inert landfill	0.342	0.335	0.328	0.321	0.313	0.306	0.295	0.285	0.274	0.263	0.252	0.245	0.238	0.231	0.223	0.216	0.209	0.202	0.195	0.187	0.180
Hazardous waste	0.038	0.039	0.040	0.041	0.042	0.043	0.044	0.045	0.046	0.047	0.048	0.048	0.049	0.050	0.051	0.051	0.052	0.052	0.053	0.053	0.054

CHART_01



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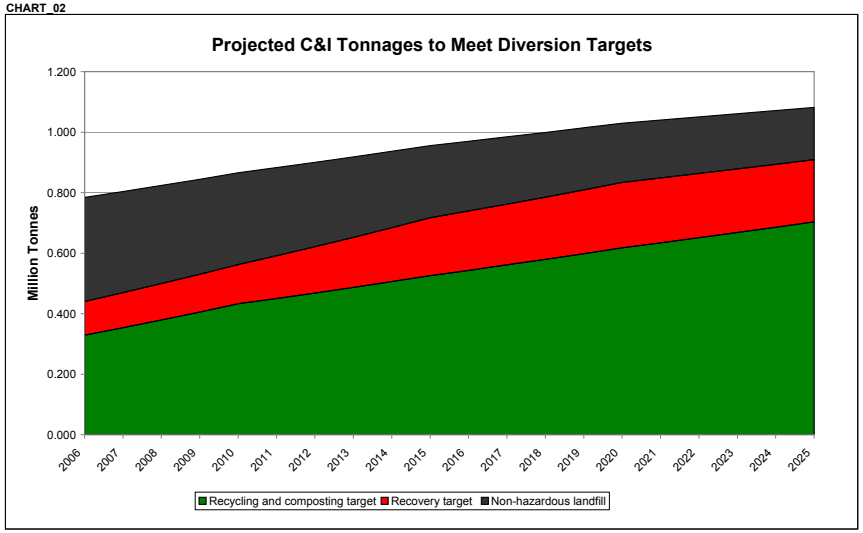

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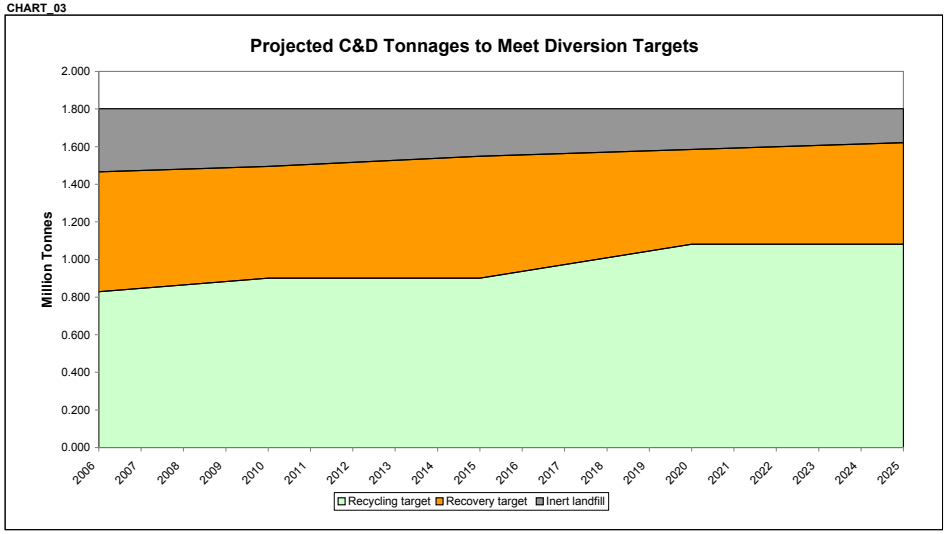

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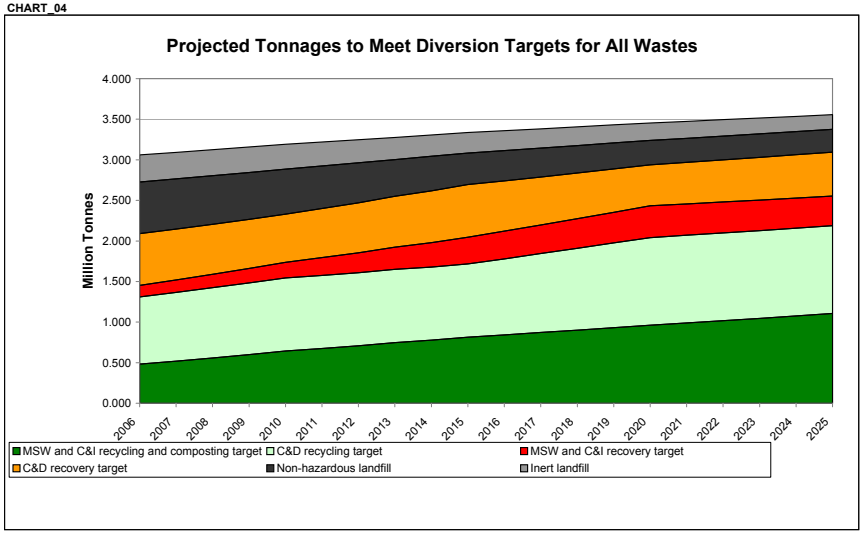
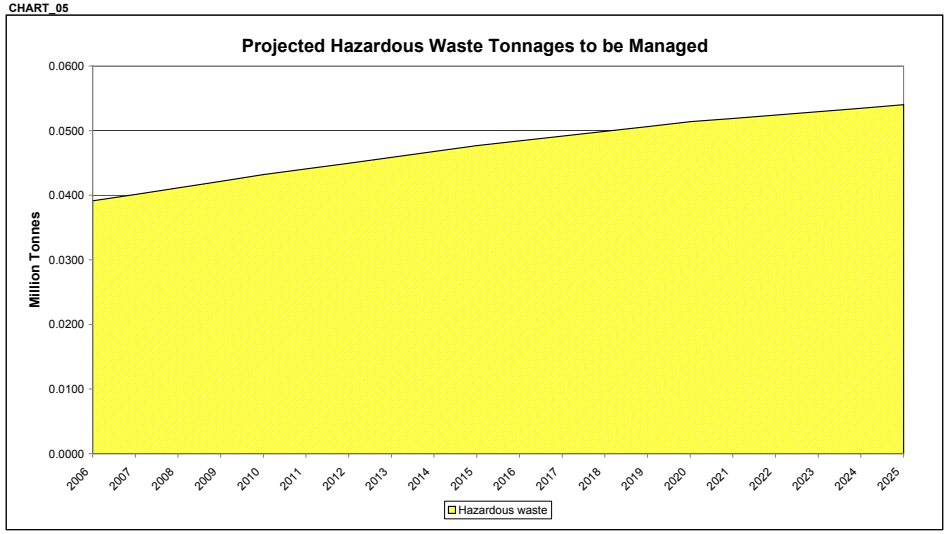


Berkshire

CHART_05



DATA_07: EXISTING/PLANNED CAPACITY FOR RECYCLING, RECOVERY AND LANDFILLING AND TOTAL WASTE TONNAGES TO EACH DISPOSAL ROUTE (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
MSW and C&I recovery																					
MSW and C&I incineration (non-specialist)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
MSW and C&I treatment	0.360	0.360	0.360	0.360	0.360	0.360	0.360	0.360	0.360	0.360	0.360	0.360	0.360	0.360	0.360	0.360	0.360	0.360	0.360	0.360	0.360
Total existing/planned MSW and C&I recovery capacity	0.360	0.360	0.360	0.360	0.360	0.360	0.360	0.360	0.360	0.360	0.360	0.360	0.360	0.360	0.360	0.360	0.360	0.360	0.360	0.360	0.360
Total MSW waste required to meet target	0.023	0.030	0.038	0.046	0.054	0.063	0.077	0.092	0.109	0.123	0.139	0.146	0.153	0.160	0.167	0.175	0.172	0.170	0.167	0.164	0.161
Total C&I waste required to meet target	0.107	0.111	0.116	0.120	0.125	0.130	0.141	0.153	0.165	0.178	0.191	0.196	0.201	0.206	0.211	0.216	0.214	0.212	0.210	0.208	0.206
Surplus/deficit capacity	0.229	0.218	0.206	0.194	0.181	0.167	0.141	0.115	0.085	0.059	0.030	0.018	0.006	-0.006	-0.018	-0.031	-0.027	-0.022	-0.017	-0.012	-0.007
MSW and C&I recycling and composting																					
MSW and C&I recycling	0.601	0.601	0.601	0.601	0.601	0.601	0.601	0.601	0.601	0.601	0.601	0.601	0.601	0.601	0.601	0.601	0.601	0.601	0.601	0.601	0.601
MSW and C&I transfer	1.021	1.021	1.021	1.021	1.021	1.021	1.021	1.021	1.021	1.021	1.021	1.021	1.021	1.021	1.021	1.021	1.021	1.021	1.021	1.021	1.021
Total existing/planned composting capacity	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035
(1) Total existing/planned MSW and C&I recycling and composting capacity (Baseline: 20% of transfer capacity delivers recycling)	0.840	0.840	0.840	0.840	0.840	0.840	0.840	0.840	0.840	0.840	0.840	0.840	0.840	0.840	0.840	0.840	0.840	0.840	0.840	0.840	0.840
(2) Total existing/planned MSW and C&I recycling and composting capacity (Sensitivity: 5% of transfer capacity delivers recycling)	0.687	0.687	0.687	0.687	0.687	0.687	0.687	0.687	0.687	0.687	0.687	0.687	0.687	0.687	0.687	0.687	0.687	0.687	0.687	0.687	0.687
Total MSW waste required to meet recycling and composting target	0.139	0.152	0.166	0.180	0.194	0.210	0.225	0.241	0.261	0.273	0.290	0.300	0.310	0.321	0.332	0.343	0.355	0.366	0.378	0.391	0.403
Total C&I waste required to meet recycling and composting target	0.306	0.329	0.354	0.379	0.405	0.433	0.450	0.468	0.487	0.506	0.526	0.543	0.561	0.580	0.598	0.618	0.634	0.651	0.668	0.686	0.703
Surplus/deficit capacity (Baseline: 20% of transfer capacity delivers recycling)	0.395	0.359	0.321	0.281	0.240	0.198	0.165	0.131	0.092	0.062	0.025	-0.003	-0.031	-0.060	-0.090	-0.121	-0.149	-0.177	-0.206	-0.236	-0.266
Surplus/deficit capacity (Sensitivity: 5% of transfer capacity delivers recycling)	0.242	0.206	0.168	0.128	0.087	0.044	0.012	-0.022	-0.061	-0.091	-0.128	-0.156	-0.184	-0.213	-0.243	-0.274	-0.302	-0.330	-0.360	-0.389	-0.419
C&D recycling																					
Total existing/planned C&D recycling capacity	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064
Total waste required to meet C&D recycling target	0.811	0.829	0.847	0.865	0.883	0.901	0.901	0.901	0.901	0.901	0.901	0.937	0.973	1.009	1.045	1.081	1.081	1.081	1.081	1.081	1.081
Surplus/deficit capacity	-0.746	-0.764	-0.782	-0.800	-0.818	-0.836	-0.836	-0.836	-0.836	-0.836	-0.836	-0.872	-0.908	-0.944	-0.980	-1.016	-1.016	-1.016	-1.016	-1.016	-1.016
C&D recovery																					
(3) REGIONAL total existing/planned C&D recovery capacity	1.877	1.794	1.710	1.627	1.544	1.460	1.439	1.418	1.398	1.377	1.356	1.325	1.293	1.262	1.231	1.199	1.220	1.241	1.262	1.283	1.304
Sub-regional total waste required to meet C&D recovery target	0.649	0.638	0.627	0.616	0.605	0.594	0.605	0.616	0.627	0.638	0.649	0.620	0.591	0.562	0.533	0.504	0.512	0.519	0.526	0.533	0.540
Surplus/deficit capacity	1.229	1.156	1.083	1.011	0.938	0.866	0.834	0.802	0.771	0.739	0.707	0.705	0.702	0.700	0.697	0.695	0.709	0.722	0.736	0.750	0.763
Hazardous waste recycling																					
Total existing/planned hazardous waste recycling capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total hazardous waste to be recycled	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Surplus/deficit capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hazardous waste recovery																					
Total existing/planned hazardous waste recovery capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total hazardous waste to be recovered	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Surplus/deficit capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Non-hazardous landfill																					
Available non-hazardous landfill capacity (excluding residues from MSW and C&I recovery)		0.055	-0.882	-1.805	-2.711	-3.601	-4.473	-5.313	-6.118	-6.882	-7.616	-8.312	-8.996	-9.666	-10.323	-10.967	-11.595	-12.222	-12.848	-13.472	-14.095
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'Incineration (non-specialist)'		0.055	-0.903	-1.849	-2.781	-3.698	-4.599	-5.471	-6.313	-7.117	-7.897	-8.642	-9.377	-10.101	-10.813	-11.513	-12.200	-12.885	-13.568	-14.249	-14.927
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'MBT'		0.055	-0.966	-1.979	-2.984	-3.980	-4.965	-5.934	-6.883	-7.809	-8.720	-9.611	-10.496	-11.376	-12.249	-13.115	-13.974	-14.829	-15.680	-16.527	-17.369
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'RDF'		0.055	-0.899	-1.840	-2.767	-3.678	-4.574	-5.439	-6.274	-7.070	-7.840	-8.576	-9.301	-10.014	-10.715	-11.403	-12.079	-12.753	-13.424	-14.094	-14.761
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'treatment'		0.055	-0.946	-1.938	-2.919	-3.890	-4.849	-5.786	-6.702	-7.589	-8.458	-9.303	-10.140	-10.970	-11.792	-12.605	-13.410	-14.211	-15.008	-15.802	-16.592
Total MSW and C&I waste sent direct to non-hazardous landfill		0.636	0.618	0.598	0.577	0.555	0.525	0.492	0.452	0.426	0.389	0.373	0.356	0.339	0.320	0.302	0.298	0.294	0.289	0.285	0.281
Inert landfill																					
Available inert landfill capacity		0.181	-0.154	-0.481	-0.802	-1.116	-1.422	-1.717	-2.002	-2.276	-2.539	-2.791	-3.036	-3.274	-3.504	-3.728	-3.944	-4.153	-4.355	-4.549	-4.737
Available inert landfill capacity assuming all MSW and C&I recovery by 'Incineration (non-specialist)'		0.181	-0.175	-0.526	-0.871	-1.212	-1.547	-1.875	-2.196	-2.511	-2.820	-3.121	-3.418	-3.708	-3.994	-4.274	-4.549	-4.816	-5.075	-5.326	-5.569
Total C&D waste sent direct to inert landfill (excludes residues from MSW and C&I recovery)	0.342	0.335	0.328	0.321	0.313	0.306	0.295	0.285	0.274	0.263	0.252	0.245	0.238	0.231	0.223	0.216	0.209	0.202	0.195	0.187	0.180
Hazardous landfill																					
Available hazardous landfill capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total hazardous waste sent direct to hazardous landfill	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Other																					
Metal/ELV facility	0.182	0.182	0.182	0.182	0.182	0.182	0.182	0.182	0.182	0.182	0.182	0.182	0.182	0.182	0.182	0.182	0.182	0.182	0.182	0.182	0.182
Ignored	1.525	1.525	1.525	1.525	1.525	1.525	1.525	1.525	1.525	1.525	1.525	1.525	1.525	1.525	1.525	1.525	1.525	1.525	1.525	1.525	1.525
Closed	0.640	0.640	0.640	0.640	0.640	0.640	0.640	0.640	0.640	0.640	0.640	0.640	0.640	0.640	0.640	0.640	0.640	0.640	0.640	0.640	0.640

(1) ERM has assumed that 20% of the total "transfer' capacity will deliver recycling capacity
(2) ERM has assumed that 5% of the total "transfer' capacity will deliver recycling capacity
(3) Data for C&D recovery for landfill cover for the SE Region were sourced from the original MEL model, which sourced the data from Symonds (2001)
Landfill capacity data for 2005 were adapted from *Table R* in the ERM data template for each sub-region

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Berkshire

DATA_08: RESIDUE RATES (%)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Recovery residues (% by weight)																					
MSW and C&I incineration (non-specialist) - bottom ash	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
MSW and C&I incineration (non-specialist) - fly ash	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
MSW and C&I to MBT	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59
MSW and C&I to RDF	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
MSW and C&I treatment - non-hazardous	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45
MSW and C&I treatment - hazardous	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Hazardous waste recovery	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Recycling residues (% by weight)																					
MSW and C&I recycling	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
MSW and C&I transfer	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
MSW and C&I composting	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
C&D recycling	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Hazardous waste recycling	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Other																					
Metal/ELV facility	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Ignored	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Closed	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Note: All residues are calculated on the amount of waste arising not on the maount of capacity available. This is complaince with the self-sufficiency requirements of PPS10.

DATA_09: TOTAL RESIDUE (Million Tonnes)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Recovery residues (of waste managed):																					
MSW and C&I incineration (non-specialist) - bottom ash	0.039	0.043	0.046	0.050	0.054	0.058	0.065	0.073	0.082	0.090	0.099	0.103	0.106	0.110	0.113	0.117	0.116	0.115	0.113	0.112	0.110
MSW and C&I incineration (non-specialist) - fly ash	0.004	0.004	0.005	0.005	0.005	0.006	0.007	0.007	0.008	0.009	0.010	0.010	0.011	0.011	0.011	0.012	0.012	0.011	0.011	0.011	0.011
MSW and C&I to MBT	0.077	0.084	0.091	0.098	0.106	0.114	0.129	0.145	0.162	0.177	0.195	0.202	0.209	0.216	0.223	0.231	0.228	0.225	0.222	0.220	0.216
MSW and C&I to RDF	0.016	0.017	0.018	0.020	0.022	0.023	0.026	0.029	0.033	0.036	0.040	0.041	0.042	0.044	0.045	0.047	0.046	0.046	0.045	0.045	0.044
MSW and C&I treatment - non-hazardous	0.059	0.064	0.069	0.075	0.081	0.087	0.098	0.110	0.124	0.135	0.149	0.154	0.159	0.165	0.170	0.176	0.174	0.172	0.170	0.167	0.165
MSW and C&I treatment - hazardous	0.007	0.007	0.008	0.008	0.009	0.010	0.011	0.012	0.014	0.015	0.017	0.017	0.018	0.018	0.019	0.020	0.019	0.019	0.019	0.019	0.018
Hazardous waste recovery	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Recycling residues (of waste managed):																					
MSW and C&I recycling and composting	0.067	0.072	0.078	0.084	0.090	0.096	0.101	0.106	0.112	0.117	0.122	0.126	0.131	0.135	0.140	0.144	0.148	0.153	0.157	0.161	0.166
C&D recycling	0.081	0.083	0.085	0.086	0.088	0.090	0.090	0.090	0.090	0.090	0.090	0.094	0.097	0.101	0.104	0.108	0.108	0.108	0.108	0.108	0.108
Hazardous waste recycling	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Note: All residues are calculated on the amount of waste arising not on the maount of capacity available. This is complaince with the self-sufficiency requirements of PPS10.

DATA_10: TOTAL MSW AND C&I RESIDUE FROM RECYCLING SENT TO NON-HAZARDOUS LANDFILL (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Total MSW and C&I recycling and composting residue sent to non-hazardous landfill	0.148	0.155	0.163	0.170	0.178	0.186	0.191	0.196	0.202	0.207	0.212	0.220	0.228	0.236	0.244	0.252	0.256	0.261	0.265	0.270	0.274

DATA_11: TOTAL MSW AND C&I RESIDUE FROM RECOVERY SENT TO NON-HAZARDOUS LANDFILL AND C&D RECYCLING (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
SCENARIO 1 - Assumes all recovery is by 'Non-specialist incineration' (based on total recovery capacity)																					
(1) Total MSW and C&I residue sent to non-hazardous landfill assuming all MSW and C&I recovery by 'Non-specialist incineration'	0.020	0.021	0.023	0.025	0.027	0.029	0.033	0.037	0.041	0.045	0.050	0.051	0.053	0.055	0.057	0.059	0.058	0.057	0.057	0.056	0.055
(1) Total MSW and C&I residue sent to inert landfill assuming all MSW and C&I recovery by 'Non-specialist incineration'	0.020	0.021	0.023	0.025	0.027	0.029	0.033	0.037	0.041	0.045	0.050	0.051	0.053	0.055	0.057	0.059	0.058	0.057	0.057	0.056	0.055
SCENARIO 2 - Assumes all recovery is by 'MBT' (based on total recovery capacity)																					
Total MSW and C&I residue sent to non-hazardous landfill	0.077	0.084	0.091	0.098	0.106	0.114	0.129	0.145	0.162	0.177	0.195	0.202	0.209	0.216	0.223	0.231	0.228	0.225	0.222	0.220	0.216
SCENARIO 3 - Assumes all recovery is by 'RDF' (based on total recovery capacity)																					
Total MSW and C&I residue sent to non-hazardous landfill	0.016	0.017	0.018	0.020	0.022	0.023	0.026	0.029	0.033	0.036	0.040	0.041	0.042	0.044	0.045	0.047	0.046	0.046	0.045	0.045	0.044
SCENARIO 4 - Assumes all recovery is by 'treatment' (based on total recovery capacity)																					
(2) Total MSW and C&I residue sent to non-hazardous landfill	0.059	0.064	0.069	0.075	0.081	0.087	0.098	0.110	0.124	0.135	0.149	0.154	0.159	0.165	0.170	0.176	0.174	0.172	0.170	0.167	0.165

(1) It was assumed that 50% of residue from 'non-specialist incineration' is sent to non-hazardous landfill and 50% is sent to inert landfill. In the original model assumptions developed MEL 50% was assumed to go to C&D recycling, rather than to inert landfi

DATA_12: TONNAGES OF C&D REUSED ON NON-HAZARDOUS AND INERT LANDFILL (Million Tonnes)

(1) C&D reused on landfill sites	39	%
(1) C&D reused on exempt sites	61	%
(1) C&D reused on landfill sites sent to 'non-haz landfill'	30	%
(1) C&D reused on landfill sites sent to 'inert landfill'	70	%

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
c&d	Total C&D reused on non-hazardous landfill	0.075	0.074	0.073	0.072	0.070	0.069	0.070	0.072	0.073	0.074	0.075	0.072	0.069	0.065	0.062	0.059	0.060	0.060	0.061	0.062	0.063
	Total reused C&D on inert landfill	0.176	0.173	0.170	0.167	0.164	0.161	0.164	0.167	0.170	0.173	0.176	0.168	0.160	0.153	0.145	0.137	0.139	0.141	0.143	0.145	0.147

(1) C&D reuse rates based on original model assumptions developed MEL
NOTE: C&D reuse on inert and non-hazardous landfill is not included within the charts because it has been assumed that data supplied by each sub-region has accounted for C&D reuse as an engineering material.

DATA_13: TOTAL MSW AND C&I RESIDUE FROM RECYCLING SENT TO HAZARDOUS LANDFILL (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Total MSW and C&I recycling and composting residue sent to hazardous landfill	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

DATA_14: TOTAL MSW AND C&I RESIDUE FROM RECOVERY SENT TO HAZARDOUS LANDFILL (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
SCENARIO 1 - Assumes all recovery is by 'Non-specialist incineration' (based on total recovery capacity)																					
Total MSW and C&I residue sent to hazardous landfill assuming all MSW and C&I recovery by 'Non-specialist incineration'	0.004	0.004	0.005	0.005	0.005	0.006	0.007	0.007	0.008	0.009	0.010	0.010	0.011	0.011	0.011	0.012	0.012	0.011	0.011	0.011	0.011
SCENARIO 2 - Assumes all recovery is by 'MBT' (based on total recovery capacity)																					
Total MSW and C&I residue sent to hazardous landfill	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SCENARIO 3 - Assumes all recovery is by 'RDF' (based on total recovery capacity)																					
Total MSW and C&I residue sent to hazardous landfill	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SCENARIO 4 - Assumes all recovery is by 'treatment' (based on total recovery capacity)																					
Total MSW and C&I residue sent to hazardous landfill	0.007	0.007	0.008	0.008	0.009	0.010	0.011	0.012	0.014	0.015	0.017	0.017	0.018	0.018	0.019	0.020	0.019	0.019	0.019	0.019	0.018

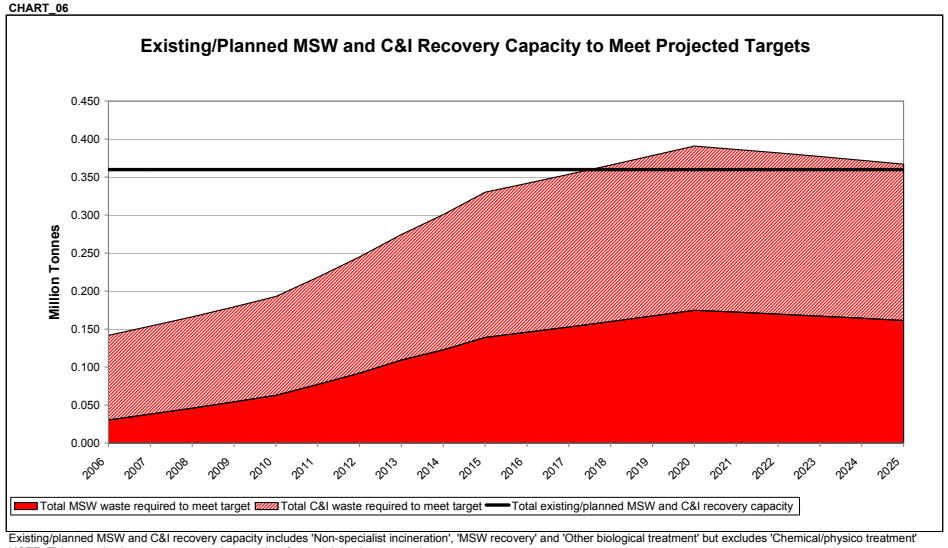
NOTE: This element of the model is redundant. There is currently no hazardous waste capacity figures to generate a chart of managed waste versus available capacity.

DATA_15: TOTAL HAZARDOUS WASTE RESIDUE FROM RECOVERY AND RECYCLING SENT TO HAZARDOUS LANDFILL (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Total hazardous waste recycling and recovery residue sent to hazardous landfill	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

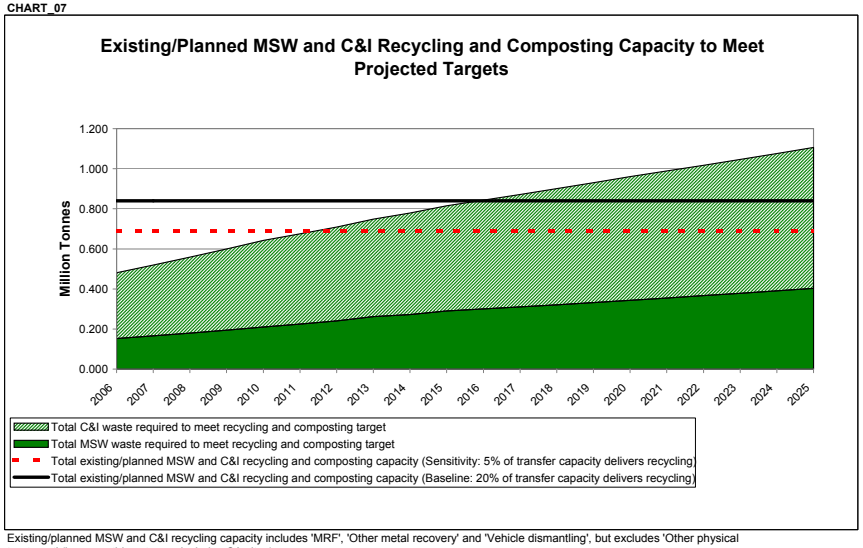
Berkshire

CHART_06



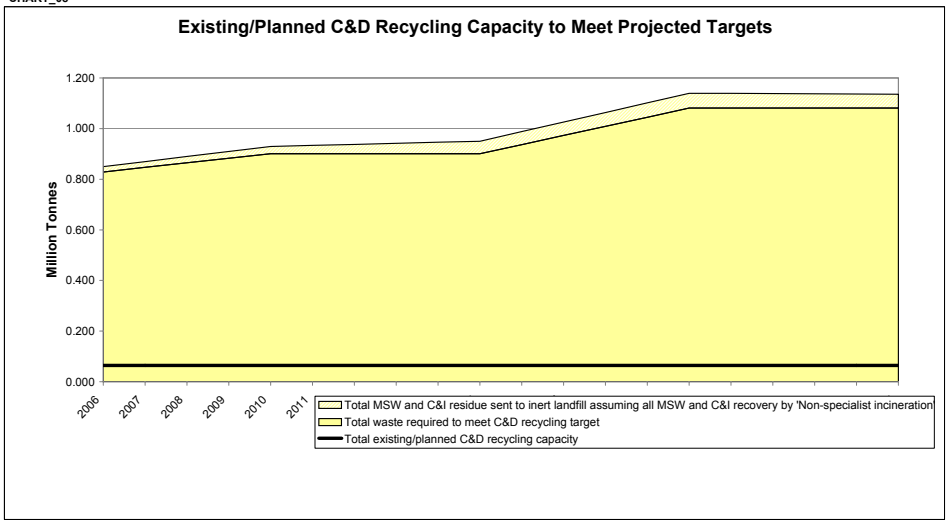
Existing/planned MSW and C&I recovery capacity includes 'Non-specialist incineration', 'MSW recovery' and 'Other biological treatment' but excludes 'Chemical/physico treatment'
NOTE: This capacity does not represent the quantity of material that is recovered.
NOTE: The original MEL model assumes that 'MSW recovery' capacity is incineration - but this is not made explicit.

CHART_07



Existing/planned MSW and C&I recycling capacity includes 'MRF', 'Other metal recovery' and 'Vehicle dismantling', but excludes 'Other physical treatment' (because this category includes CA sites)
NOTE: This capacity does not represent the quantity of material that is recycled and composted.

CHART_08



Berkshire

CHART_09

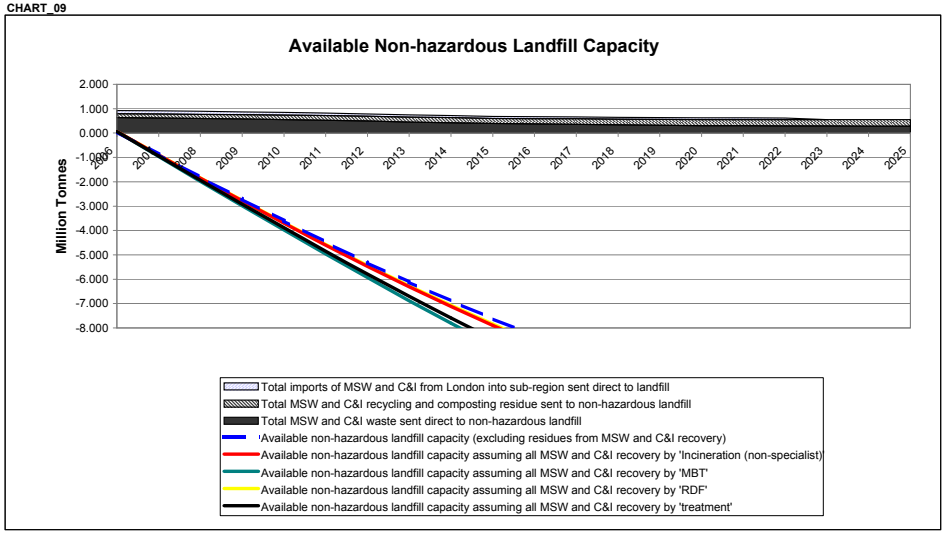
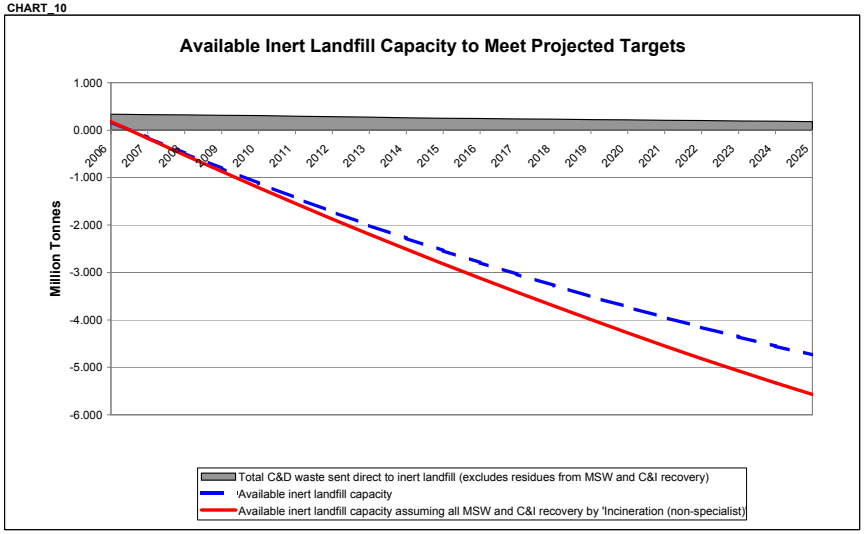


CHART_10



Buckinghamshire

SUMMARY DATA AND RESULTS FOR BUCKINGHAMSHIRE

MANAGED WASTE USED TO GENERATE RESULTS (Million Tonnes)	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	0.304	0.312	0.320	0.328	0.336	0.343	0.350	0.357	0.364	0.371	0.377	0.382	0.388	0.394	0.400	0.406	0.412	0.418	0.424	0.431
msw - imports from london that are sent direct to non-hazardous landfill	0.072	0.070	0.068	0.066	0.064	0.061	0.057	0.053	0.050	0.046	0.044	0.042	0.041	0.039	0.037	0.036	0.035	0.035	0.034	0.033
c&i	0.922	0.945	0.969	0.993	1.018	1.038	1.059	1.080	1.102	1.124	1.141	1.158	1.175	1.193	1.210	1.223	1.235	1.247	1.260	1.272
c&i - imports from london that are sent direct to non-hazardous landfill	0.217	0.211	0.206	0.200	0.194	0.184	0.173	0.162	0.151	0.140	0.134	0.129	0.123	0.117	0.111	0.108	0.106	0.103	0.101	0.098
c&d	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711
hazardous	0.012	0.012	0.012	0.013	0.013	0.013	0.013	0.014	0.014	0.014	0.014	0.015	0.015	0.015	0.015	0.016	0.016	0.016	0.016	0.016

WASTE STREAM TONNAGES TO MEET TARGETS (Million Tonnes)		2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	LATS shortfall (how much extra is landfilled above LATS target)	-0.006	-0.004	-0.002	0.002	0.008	0.011	0.014	0.016	0.010	0.003	0.003	0.002	0.001	0.000	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
	Recycling and composting target	0.097	0.106	0.115	0.126	0.140	0.152	0.164	0.176	0.182	0.188	0.194	0.200	0.206	0.213	0.220	0.227	0.235	0.242	0.250	0.258
	Recovery target	0.019	0.024	0.029	0.035	0.042	0.052	0.063	0.073	0.082	0.090	0.094	0.098	0.103	0.107	0.112	0.110	0.109	0.107	0.105	0.103
	Non-hazardous landfill	0.188	0.182	0.175	0.166	0.154	0.139	0.123	0.108	0.100	0.093	0.088	0.084	0.079	0.074	0.068	0.068	0.068	0.069	0.069	0.069
c&i	Recycling and composting target	0.387	0.416	0.446	0.477	0.509	0.529	0.551	0.572	0.595	0.618	0.639	0.660	0.681	0.704	0.726	0.746	0.766	0.786	0.806	0.827
	Recovery target	0.131	0.136	0.141	0.147	0.153	0.166	0.180	0.194	0.209	0.225	0.230	0.236	0.242	0.248	0.254	0.252	0.249	0.247	0.244	0.242
	Non-hazardous landfill	0.404	0.393	0.382	0.369	0.356	0.343	0.328	0.313	0.297	0.281	0.271	0.262	0.251	0.241	0.230	0.225	0.220	0.215	0.209	0.204
c&d	Recycling target	0.327	0.334	0.341	0.348	0.356	0.356	0.356	0.356	0.356	0.356	0.356	0.370	0.384	0.398	0.412	0.427	0.427	0.427	0.427	0.427
	Recovery target	0.252	0.247	0.243	0.239	0.235	0.239	0.243	0.247	0.252	0.256	0.245	0.233	0.222	0.211	0.199	0.202	0.205	0.208	0.211	0.213
	Inert landfill	0.132	0.129	0.127	0.124	0.121	0.117	0.112	0.108	0.104	0.100	0.097	0.094	0.091	0.088	0.085	0.082	0.080	0.077	0.074	0.071
hazardous	Hazardous waste	0.012	0.012	0.012	0.013	0.013	0.013	0.013	0.014	0.014	0.014	0.014	0.015	0.015	0.015	0.015	0.016	0.016	0.016	0.016	0.016

Note: If there is a LATS shortfall, denoted by a positive number, (ie insufficient allowance to landfill non-diverted waste) then the model assumes that this extra waste is recycled/composted and recovered at the same ratio as the regional targets for recycling/composting and recovery for that year.

EXISTING/PLANNED CAPACITY FOR RECYCLING, RECOVERY AND LANDFILLING AND TOTAL WASTE TONNAGES TO EACH DISPOSAL ROUTE (Million Tonnes)		2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
MSW and C&I recovery																					
	Total existing/planned MSW and C&I recovery capacity	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186
	Surplus/deficit capacity	0.036	0.026	0.016	0.004	-0.008	-0.032	-0.056	-0.081	-0.105	-0.128	-0.138	-0.148	-0.158	-0.169	-0.180	-0.176	-0.172	-0.168	-0.163	-0.159
MSW and C&I recycling and composting																					
	Total existing/planned MSW and C&I recycling and composting capacity (Baseline: 20% of transfer capacity delivers recycling)	0.414	0.414	0.414	0.414	0.414	0.414	0.414	0.414	0.414	0.414	0.414	0.414	0.414	0.414	0.414	0.414	0.414	0.414	0.414	0.414
	Total existing/planned MSW and C&I recycling and composting capacity (Sensitivity: 5% of transfer capacity delivers recycling)	0.354	0.354	0.354	0.354	0.354	0.354	0.354	0.354	0.354	0.354	0.354	0.354	0.354	0.354	0.354	0.354	0.354	0.354	0.354	0.354
	Surplus/deficit capacity (Baseline: 20% of transfer capacity delivers recycling)	-0.071	-0.108	-0.147	-0.189	-0.235	-0.267	-0.300	-0.334	-0.362	-0.392	-0.418	-0.446	-0.474	-0.502	-0.532	-0.559	-0.586	-0.614	-0.642	-0.671
	Surplus/deficit capacity (Sensitivity: 5% of transfer capacity delivers recycling)	-0.131	-0.168	-0.207	-0.249	-0.296	-0.328	-0.361	-0.395	-0.423	-0.452	-0.479	-0.506	-0.534	-0.563	-0.593	-0.620	-0.647	-0.675	-0.703	-0.732
C&D recycling																					
	Total existing/planned C&D recycling capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Surplus/deficit capacity	-0.327	-0.334	-0.341	-0.348	-0.356	-0.356	-0.356	-0.356	-0.356	-0.356	-0.370	-0.384	-0.398	-0.412	-0.427	-0.427	-0.427	-0.427	-0.427	-0.427
C&D recovery																					
	REGIONAL total existing/planned C&D recovery capacity	1.794	1.710	1.627	1.544	1.460	1.439	1.418	1.398	1.377	1.356	1.325	1.293	1.262	1.231	1.199	1.220	1.241	1.262	1.283	1.304
	Surplus/deficit capacity	1.542	1.463	1.384	1.305	1.225	1.200	1.175	1.150	1.125	1.100	1.080	1.060	1.040	1.020	1.000	1.018	1.036	1.054	1.072	1.090
Hazardous waste recycling																					
	Total existing/planned hazardous waste recycling capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Surplus/deficit capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hazardous waste recovery																					
	Total existing/planned hazardous waste recovery capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Surplus/deficit capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Non-hazardous landfill																					
	Available non-hazardous landfill capacity (excluding residues from MSW and C&I recovery)	10.500	9.515	8.547	7.599	6.672	5.770	4.907	4.083	3.299	2.548	1.831	1.131	0.447	-0.220	-0.869	-1.499	-2.125	-2.747	-3.365	-3.979
	Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'Incineration (non-specialist)'	10.500	9.492	8.501	7.527	6.572	5.641	4.745	3.885	3.061	2.266	1.502	0.753	0.019	-0.699	-1.402	-2.087	-2.768	-3.443	-4.114	-4.780
	Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'MBT'	10.500	9.426	8.364	7.315	6.280	5.264	4.272	3.305	2.363	1.440	0.537	-0.355	-1.236	-2.106	-2.965	-3.811	-4.651	-5.484	-6.311	-7.131
	Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'RDF'	10.500	9.497	8.510	7.541	6.592	5.667	4.778	3.925	3.108	2.323	1.568	0.829	0.105	-0.603	-1.295	-1.969	-2.639	-3.304	-3.964	-4.620
	Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'treatment'	10.500	9.447	8.408	7.382	6.373	5.384	4.422	3.489	2.585	1.703	0.844	-0.002	-0.837	-1.658	-2.467	-3.263	-4.052	-4.835	-5.612	-6.383
Inert landfill																					
	Available inert landfill capacity	26.051	25.919	25.789	25.663	25.539	25.418	25.301	25.189	25.081	24.977	24.878	24.781	24.687	24.596	24.508	24.422	24.340	24.260	24.183	24.109
	Available inert landfill capacity assuming all MSW and C&I recovery by 'Incineration (non-specialist)'	26.051	25.896	25.743	25.590	25.439	25.289	25.140	24.991	24.843	24.695	24.549	24.403	24.259	24.116	23.975	23.835	23.698	23.564	23.435	23.308
Hazardous landfill																					
	Available hazardous landfill capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Note: The model does not contain data for the management of hazardous waste.																				

DATA_01: ARISINGS AND GROWTH RATES OF MSW, C&I AND HAZARDOUS WASTE (Million Tonnes)		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	Arisings of MSW in baseline year																					
	(1) Forecast regional level growth rate of MSW - per year (%)	3.0%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%
	(1) Forecast regional level growth rate of MSW - cumulative (%)	109%	112%	115%	118%	121%	124%	126%	129%	131%	134%	136%	139%	141%	143%	145%	147%	149%	151%	154%	156%	158%
	Total arisings of MSW using regional growth forecasts	0.297	0.304	0.312	0.320	0.328	0.336	0.343	0.350	0.357	0.364	0.371	0.377	0.382	0.388	0.394	0.400	0.406	0.412	0.418	0.424	0.431
	(1) Forecast sub-regional growth rate of MSW - per year (%)	3.0%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%
	(1) Forecast sub-regional level growth rate of MSW - cumulative (%)	109%	112%	115%	118%	121%	124%	126%	129%	131%	134%	136%	139%	141%	143%	145%	147%	149%	151%	154%	156%	158%
	Total arisings of MSW using sub-regional growth forecasts	0.297	0.304	0.312	0.320	0.328	0.336	0.343	0.350	0.357	0.364	0.371	0.377	0.382	0.388	0.394	0.400	0.406	0.412	0.418	0.424	0.431
c&i	Arisings of C&I in baseline year																					
	(1) Forecast regional level growth rate of C&I - per year (%)	3.3%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.0%	1.0%	1.0%	1.0%	1.0%
	(1) Forecast regional level growth rate of C&I - cumulative (%)	117%	120%	123%	126%	130%	133%	136%	138%	141%	144%	147%	149%	151%	153%	156%	158%	160%	161%	163%	164%	166%
	Total arisings of C&I using regional growth forecasts	0.900	0.922	0.945	0.969	0.993	1.018	1.038	1.059	1.080	1.102	1.124	1.141	1.158	1.175	1.193	1.210	1.223	1.235	1.247	1.260	1.272
	(1) Forecast sub-regional level growth rate of C&I - per year (%)	3.3%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.0%	1.0%	1.0%	1.0%	1.0%
	(1) Forecast sub-regional level growth rate of C&I - cumulative (%)	117%	120%	123%	126%	130%	133%	136%	138%	141%	144%	147%	149%	151%	153%	156%	158%	160%	161%	163%	164%	166%
	Total arisings of C&I using sub-regional growth forecasts	0.900	0.922	0.945	0.969	0.993	1.018	1.038	1.059	1.080	1.102	1.124	1.141	1.158	1.175	1.193	1.210	1.223	1.235	1.247	1.260	1.272
hazardous	Arisings of hazardous waste in baseline year																					
	(2) Forecast regional level growth rate of hazardous waste - per year (%)	3.3%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.0%	1.0%	1.0%	1.0%	1.0%
	Forecast regional level growth rate of hazardous waste - cumulative (%)	107%	109%	112%	115%	118%	121%	123%	126%	128%	131%	133%	135%	137%	139%	141%	144%	145%	146%	148%	149%	151%
	Total arisings of hazardous waste	0.011	0.012	0.012	0.012	0.013	0.013	0.013	0.013	0.014	0.014	0.014	0.014	0.015	0.015	0.015	0.015	0.016	0.016	0.016	0.016	0.016
	(2) Forecast sub-regional level growth rate of hazardous waste - per year (%)	3.3%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.0%	1.0%	1.0%	1.0%	1.0%
	Forecast sub regional level growth rate of hazardous waste - cumulative (%)	107%	109%	112%	115%	118%	121%	123%	126%	128%	131%	133%	135%	137%	139%	141%	144%	145%	146%	148%	149%	151%
	Total arisings of hazardous waste	0.011	0.012	0.012	0.012	0.013	0.013	0.013	0.013	0.014	0.014	0.014	0.014	0.015	0.015	0.015	0.015	0.016	0.016	0.016	0.016	0.016
c&d	Total managed C&D in baseline year																					
	(3) Forecast regional-level growth rate of managed C&D - per year (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Forecast regional-level growth rate of managed C&D - cumulative (%)	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
	(3) Total managed of C&D for the sub-region	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711

(1) Figures from SEERA updated waste capacity model by ERM in 2005.
(2) Baseline year of hazardous waste arisings is 2003 from EA Hazardous Waste Interrogator. www.environment-agency.gov.uk/apps/wastesurvey2/. ERM has assumed that growth in hazardous waste is equal to C&I waste.
(3) These data represent managed C&D waste in the sub-region, including all intra-regional and inter-regional movements. Growth is assumed to be zero from the orginal MEL study and updated modeted by ERM in 2005.
NOTE: C&D waste is not included in arisings because this was taken from survey data by Symonds 2001 which gave values for managed C&D waste.

Buckinghamshire

Figure in blue represent data supplied by each sub-region for the new '2006 SEERA Capacity and Need Model'
Figures in orange represent managed waste that are used by the model to calculate results. These can be adjusted for different scenarios.

DATA_02: INTER REGIONAL MOVEMENTS OF MSW and C&I (Million Tonnes)		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw and c&i	Regional level imports of MSW and C&I waste into the SE region from London	1.76	1.716	1.672	1.628	1.584	1.54	1.454	1.368	1.282	1.196	1.11	1.064	1.018	0.972	0.926	0.88	0.86	0.84	0.82	0.8	0.78
	Proportion of regional MSW and C&I imports that go to the sub-region (%)	16.8%	16.8%	16.8%	16.8%	16.8%	16.8%	16.8%	16.8%	16.8%	16.8%	16.8%	16.8%	16.8%	16.8%	16.8%	16.8%	16.8%	16.8%	16.8%	16.8%	16.8%
	(1) Total imports of MSW and C&I from London into sub-region sent direct to landfill	0.296	0.288	0.281	0.274	0.266	0.259	0.244	0.230	0.215	0.201	0.186	0.179	0.171	0.163	0.156	0.148	0.144	0.141	0.138	0.134	0.131
msw	Proportion of total MSW and C&I imports that are MSW (%) - REGIONAL GROWTH FORECAST	25%	25%	25%	25%	25%	25%	25%	25%	25%	25%	25%	25%	25%	25%	25%	25%	25%	25%	25%	25%	25%
	Total imports of MSW into the sub-region from London - REGIONAL GROWTH FORECAST	0.073	0.072	0.070	0.068	0.066	0.064	0.061	0.057	0.053	0.050	0.046	0.044	0.042	0.041	0.039	0.037	0.036	0.035	0.035	0.034	0.033
	Proportion of total MSW and C&I imports that are MSW (%) - SUB-REGIONAL GROWTH FORECAST	25%	25%	25%	25%	25%	25%	25%	25%	25%	25%	25%	25%	25%	25%	25%	25%	25%	25%	25%	25%	25%
	Total imports of MSW into the sub-region from London - SUB-REGIONAL GROWTH FORECAST	0.073	0.072	0.070	0.068	0.066	0.064	0.061	0.057	0.053	0.050	0.046	0.044	0.042	0.041	0.039	0.037	0.036	0.035	0.035	0.034	0.033
c&i	Proportion of total MSW and C&I imports that are C&I (%) - REGIONAL GROWTH FORECAST	75%	75%	75%	75%	75%	75%	75%	75%	75%	75%	75%	75%	75%	75%	75%	75%	75%	75%	75%	75%	75%
	Total imports of C&I into the sub-region from London - REGIONAL GROWTH FORECAST	0.222	0.217	0.211	0.206	0.200	0.194	0.184	0.173	0.162	0.151	0.140	0.134	0.129	0.123	0.117	0.111	0.108	0.106	0.103	0.101	0.098
	Proportion of total MSW and C&I imports that are C&I (%) - SUB-REGIONAL GROWTH FORECAST	75%	75%	75%	75%	75%	75%	75%	75%	75%	75%	75%	75%	75%	75%	75%	75%	75%	75%	75%	75%	75%
	Total imports of C&I into the sub-region from London - SUB-REGIONAL GROWTH FORECAST	0.222	0.217	0.211	0.206	0.200	0.194	0.184	0.173	0.162	0.151	0.140	0.134	0.129	0.123	0.117	0.111	0.108	0.106	0.103	0.101	0.098

(1) Intra-regional and inter-regional movements have been excluded for MSW and C&I waste due to self-sufficiency requirements under PPS10, except for inter-regional movements from London into the sub-region. Apportionment from Policy W3 in the Plan – downloadable from http://www.southeast-ra.gov.uk/southeastplan/plan/march_2006/core_document/009_seera_s
Note: Only a figure is available for total combined imports of MSW and C&I waste. ERM has assumed that imports of the seperate waste streams of MSW and C&I was split according to tonnage arisings of MSW and C&I in the sub-region.

DATA_03: MANAGED WASTE USED TO GENERATE RESULTS (Million Tonnes)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	0.297	0.304	0.312	0.320	0.328	0.336	0.343	0.350	0.357	0.364	0.371	0.377	0.382	0.388	0.394	0.400	0.406	0.412	0.418	0.424	0.431
msw - imports from london that are sent direct to non-hazardous landfill	0.073	0.072	0.070	0.068	0.066	0.064	0.061	0.057	0.053	0.050	0.046	0.044	0.042	0.041	0.039	0.037	0.036	0.035	0.035	0.034	0.033
c&i	0.900	0.922	0.945	0.969	0.993	1.018	1.038	1.059	1.080	1.102	1.124	1.141	1.158	1.175	1.193	1.210	1.223	1.235	1.247	1.260	1.272
c&I - imports from london that are sent direct to non-hazardous landfill	0.222	0.217	0.211	0.206	0.200	0.194	0.184	0.173	0.162	0.151	0.140	0.134	0.129	0.123	0.117	0.111	0.108	0.106	0.103	0.101	0.098
c&d	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711
hazardous	0.011	0.012	0.012	0.012	0.013	0.013	0.013	0.013	0.014	0.014	0.014	0.014	0.015	0.015	0.015	0.015	0.016	0.016	0.016	0.016	0.016

DATA_04: TARGETS (% or Million Tonnes)		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	(1) landfill (Mt)	0.137	0.133	0.128	0.121	0.112	0.102	0.091	0.079	0.068	0.065	0.062	0.059	0.056	0.053	0.050	0.048	0.048	0.048	0.048	0.048	0.048
	recovered (%)	5	6.4	7.8	9.2	10.6	12	14.4	16.8	19.2	21.6	24	24.8	25.6	26.4	27.2	28	27.2	26.4	25.6	24.8	24
	recycled and composted (%)	30	32.0	34.0	36.0	38.0	40	42.0	44.0	46.0	48.0	50	51.0	52.0	53.0	54.0	55	56.0	57.0	58.0	59.0	60
c&i	recovered (%)	14	14.2	14.4	14.6	14.8	15	16.0	17.0	18.0	19.0	20	20.2	20.4	20.6	20.8	21	20.6	20.2	19.8	19.4	19
	recycled and composted (%)	40	42.0	44.0	46.0	48.0	50	51.0	52.0	53.0	54.0	55	56.0	57.0	58.0	59.0	60	61.0	62.0	63.0	64.0	65
c&d	recovered (%)	36	35.4	34.8	34.2	33.6	33	33.6	34.2	34.8	35.4	36	34.4	32.8	31.2	29.6	28	28.4	28.8	29.2	29.6	30
	recycled (%)	45	46.0	47.0	48.0	49.0	50	50.0	50.0	50.0	50.0	50	52.0	54.0	56.0	58.0	60	60.0	60.0	60.0	60.0	60
hazardous	landfill (%)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	recovered (%)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	recycled (%)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

(1) ERM has assumed that the LATS target allowance remains constant at the 2020 value for the years beyond 2020

DATA_05: WASTE STREAM TONNAGES TO MEET TARGETS (Million Tonnes)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025

This first section of DATA_03 calculates if there is a LATS shortfall or suplus in each year. If there is a LATS shortfall (ie insufficient allowance to landfill non-diverted waste) then the model assumes that this extra waste is recycled/composted and r

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	Total MSW to be recovered and recycled/composted to meet target	0.104	0.117	0.130	0.145	0.159	0.175	0.193	0.213	0.233	0.253	0.275	0.285	0.297	0.308	0.320	0.332	0.338	0.343	0.349	0.356	0.362
	Total MSW not-diverted by targets	0.193	0.188	0.182	0.175	0.169	0.161	0.149	0.137	0.124	0.111	0.096	0.091	0.086	0.080	0.074	0.068	0.068	0.068	0.069	0.069	0.069
	Percentage of MSW that is biodegradable (% by weight)	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68
	Total BMW not-diverted by targets	0.131	0.128	0.124	0.119	0.115	0.110	0.102	0.093	0.084	0.075	0.066	0.062	0.058	0.054	0.050	0.046	0.046	0.046	0.047	0.047	0.047
	LATS shortfall (how much extra is landfilled above LATS target)	-0.005	-0.006	-0.004	-0.002	0.002	0.008	0.011	0.014	0.016	0.010	0.003	0.003	0.002	0.001	0.000	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
	Ratio of 'recovered' to 'recycled/composted' for target (%)	14%	17%	19%	20%	22%	23%	26%	28%	29%	31%	32%	33%	33%	33%	33%	34%	33%	32%	31%	30%	29%
	Extra MSW 'recovery' needed due to LATS shortfall	0.000	0.000	0.000	0.000	*0.000*	*0.002*	*0.003*	*0.004*	*0.005*	*0.003*	*0.001*	*0.001*	*0.001*	*0.000*	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Extra MSW 'recycling/composting' needed due to LATS shortfall	0.000	0.000	0.000	0.000	*0.002*	*0.006*	*0.008*	*0.010*	*0.012*	*0.007*	*0.002*	*0.002*	*0.001*	*0.001*	0.000	0.000	0.000	0.000	0.000	0.000	0.000

The section below in DATA_03 shows the tonnages by waste to meet targets.

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	Recycling and composting target	0.089	0.097	0.106	0.115	0.126	0.140	0.152	0.164	0.176	0.182	0.188	0.194	0.200	0.206	0.213	0.220	0.227	0.235	0.242	0.250	0.258
	Recovery target	0.015	0.019	0.024	0.029	0.035	0.042	0.052	0.063	0.073	0.082	0.090	0.094	0.098	0.103	0.107	0.112	0.110	0.109	0.107	0.105	0.103
	Non-hazardous landfill	0.193	0.188	0.182	0.175	0.166	0.154	0.139	0.123	0.108	0.100	0.093	0.088	0.084	0.079	0.074	0.068	0.068	0.068	0.069	0.069	0.069
	CHECK COUNTER (should be zero)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
c&i	Recycling and composting target	0.360	0.387	0.416	0.446	0.477	0.509	0.529	0.551	0.572	0.595	0.618	0.639	0.660	0.681	0.704	0.726	0.746	0.766	0.786	0.806	0.827
	Recovery target	0.126	0.131	0.136	0.141	0.147	0.153	0.166	0.180	0.194	0.209	0.225	0.230	0.236	0.242	0.248	0.254	0.252	0.249	0.247	0.244	0.242
	Non-hazardous landfill	0.414	0.404	0.393	0.382	0.369	0.356	0.343	0.328	0.313	0.297	0.281	0.271	0.262	0.251	0.241	0.230	0.225	0.220	0.215	0.209	0.204
	CHECK COUNTER (should be zero)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

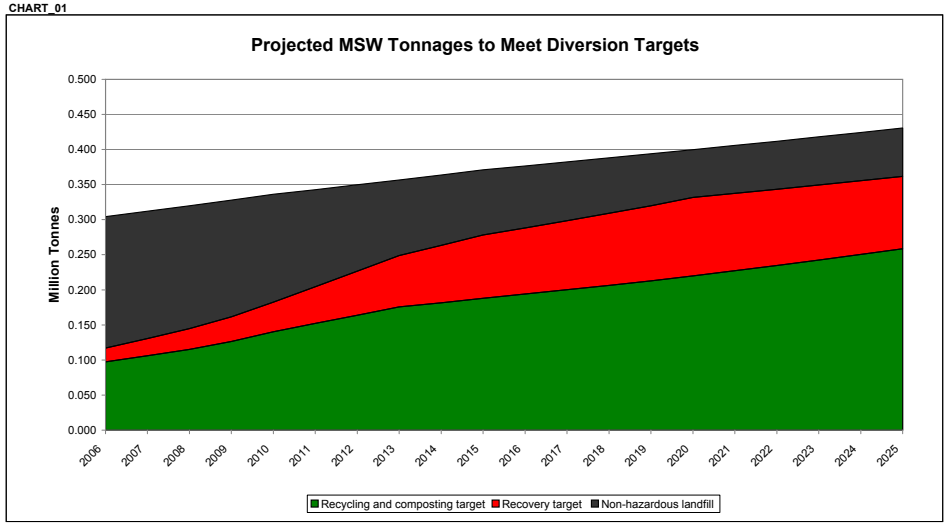
		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
c&d	Recycling target	0.320	0.327	0.334	0.341	0.348	0.356	0.356	0.356	0.356	0.356	0.356	0.370	0.384	0.398	0.412	0.427	0.427	0.427	0.427	0.427	0.427
	Recovery target	0.256	0.252	0.247	0.243	0.239	0.235	0.239	0.243	0.247	0.252	0.256	0.245	0.233	0.222	0.211	0.199	0.202	0.205	0.208	0.211	0.213
	Inert landfill	0.135	0.132	0.129	0.127	0.124	0.121	0.117	0.112	0.108	0.104	0.100	0.097	0.094	0.091	0.088	0.085	0.082	0.080	0.077	0.074	0.071
	CHECK COUNTER (should be zero)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
hazardous	Hazardous waste	0.011	0.012	0.012	0.012	0.013	0.013	0.013	0.013	0.014	0.014	0.014	0.014	0.015	0.015	0.015	0.015	0.016	0.016	0.016	0.016	0.016

DATA_06: TOTAL WASTE TONNAGES TO MEET TARGETS (Million Tonnes)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
MSW and C&I recycling and composting target	0.449	0.485	0.522	0.561	0.603	0.649	0.682	0.714	0.748	0.776	0.806	0.833	0.860	0.888	0.916	0.946	0.973	1.000	1.028	1.056	1.085
C&D recycling target	0.320	0.327	0.334	0.341	0.348	0.356	0.356	0.356	0.356	0.356	0.356	0.370	0.384	0.398	0.412	0.427	0.427	0.427	0.427	0.427	0.427
MSW and C&I recovery target	0.141	0.150	0.160	0.171	0.182	0.195	0.218	0.243	0.268	0.291	0.315	0.325	0.335	0.345	0.355	0.366	0.362	0.358	0.354	0.350	0.345
C&D recovery target	0.256	0.252	0.247	0.243	0.239	0.235	0.239	0.243	0.247	0.252	0.256	0.245	0.233	0.222	0.211	0.199	0.202	0.205	0.208	0.211	0.213
Non-hazardous landfill	0.607	0.591	0.575	0.557	0.536	0.510	0.481	0.451	0.421	0.398	0.374	0.360	0.345	0.330	0.315	0.298	0.293	0.288	0.283	0.278	0.272
Inert landfill	0.135	0.132	0.129	0.127	0.124	0.121	0.117	0.112	0.108	0.104	0.100	0.097	0.094	0.091	0.088	0.085	0.082	0.080	0.077	0.074	0.071
Hazardous waste	0.011	0.012	0.012	0.012	0.013	0.013	0.013	0.013	0.014	0.014	0.014	0.014	0.015	0.015	0.015	0.015	0.016	0.016	0.016	0.016	0.016

Buckinghamshire

CHART_01



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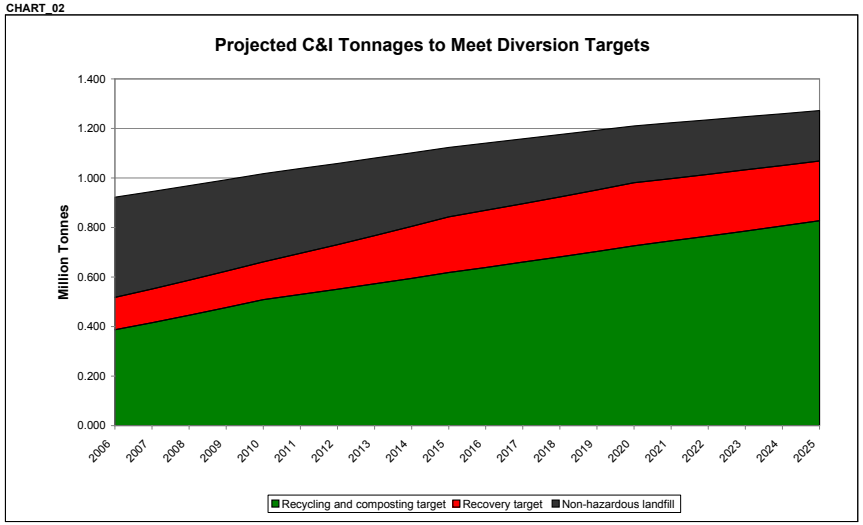

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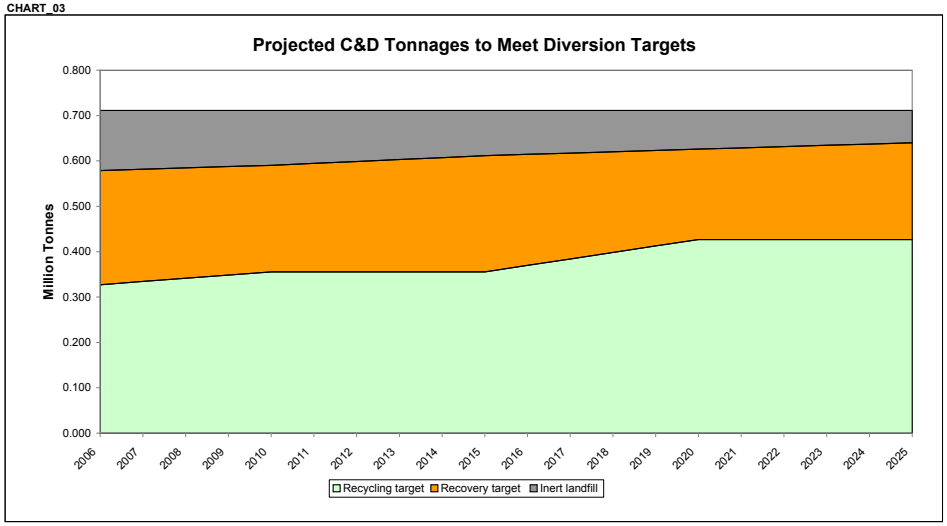

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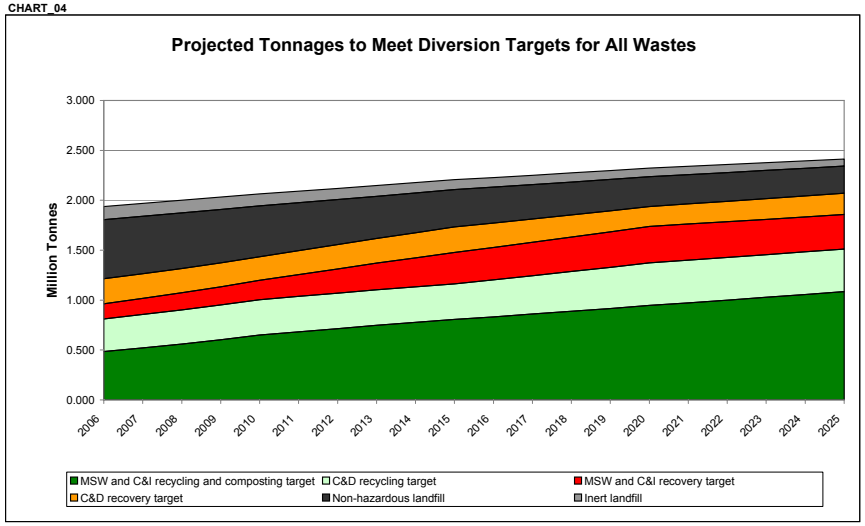
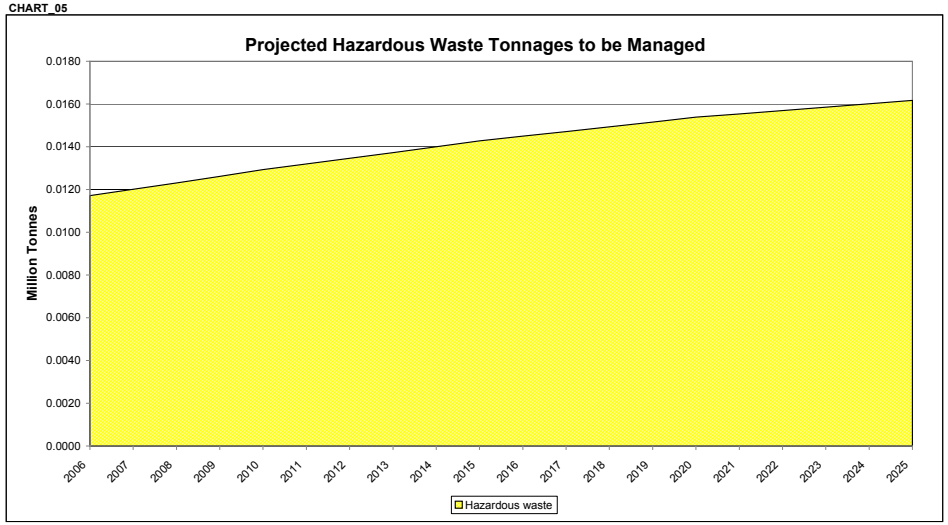


Buckinghamshire

CHART_05



DATA_07: EXISTING/PLANNED CAPACITY FOR RECYCLING, RECOVERY AND LANDFILLING AND TOTAL WASTE TONNAGES TO EACH DISPOSAL ROUTE (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
MSW and C&I recovery																					
MSW and C&I incineration (non-specialist)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
MSW and C&I treatment	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186
Total existing/planned MSW and C&I recovery capacity	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186
Total MSW waste required to meet target	0.015	0.019	0.024	0.029	0.035	0.042	0.052	0.063	0.073	0.082	0.090	0.094	0.098	0.103	0.107	0.112	0.110	0.109	0.107	0.105	0.103
Total C&I waste required to meet target	0.126	0.131	0.136	0.141	0.147	0.153	0.166	0.180	0.194	0.209	0.225	0.230	0.236	0.242	0.248	0.254	0.252	0.249	0.247	0.244	0.242
Surplus/deficit capacity	0.046	0.036	0.026	0.016	0.004	-0.008	-0.032	-0.056	-0.081	-0.105	-0.128	-0.138	-0.148	-0.158	-0.169	-0.180	-0.176	-0.172	-0.168	-0.163	-0.159
MSW and C&I recycling and composting																					
MSW and C&I recycling	0.263	0.263	0.263	0.263	0.263	0.263	0.263	0.263	0.263	0.263	0.263	0.263	0.263	0.263	0.263	0.263	0.263	0.263	0.263	0.263	0.263
MSW and C&I transfer	0.404	0.404	0.404	0.404	0.404	0.404	0.404	0.404	0.404	0.404	0.404	0.404	0.404	0.404	0.404	0.404	0.404	0.404	0.404	0.404	0.404
Total existing/planned composting capacity	0.071	0.071	0.071	0.071	0.071	0.071	0.071	0.071	0.071	0.071	0.071	0.071	0.071	0.071	0.071	0.071	0.071	0.071	0.071	0.071	0.071
(1) Total existing/planned MSW and C&I recycling and composting capacity (Baseline: 20% of transfer capacity delivers recycling)	0.414	0.414	0.414	0.414	0.414	0.414	0.414	0.414	0.414	0.414	0.414	0.414	0.414	0.414	0.414	0.414	0.414	0.414	0.414	0.414	0.414
(2) Total existing/planned MSW and C&I recycling and composting capacity (Sensitivity: 5% of transfer capacity delivers recycling)	0.354	0.354	0.354	0.354	0.354	0.354	0.354	0.354	0.354	0.354	0.354	0.354	0.354	0.354	0.354	0.354	0.354	0.354	0.354	0.354	0.354
Total MSW waste required to meet recycling and composting target	0.089	0.097	0.106	0.115	0.126	0.140	0.152	0.164	0.176	0.182	0.188	0.194	0.200	0.206	0.213	0.220	0.227	0.235	0.242	0.250	0.258
Total C&I waste required to meet recycling and composting target	0.360	0.387	0.416	0.446	0.477	0.509	0.529	0.551	0.572	0.595	0.618	0.639	0.660	0.681	0.704	0.726	0.746	0.766	0.786	0.806	0.827
Surplus/deficit capacity (Baseline: 20% of transfer capacity delivers recycling)	-0.035	-0.071	-0.108	-0.147	-0.189	-0.235	-0.267	-0.300	-0.334	-0.362	-0.392	-0.418	-0.446	-0.474	-0.502	-0.532	-0.559	-0.586	-0.614	-0.642	-0.671
Surplus/deficit capacity (Sensitivity: 5% of transfer capacity delivers recycling)	-0.095	-0.131	-0.168	-0.207	-0.249	-0.296	-0.328	-0.361	-0.395	-0.423	-0.452	-0.479	-0.506	-0.534	-0.563	-0.593	-0.620	-0.647	-0.675	-0.703	-0.732
C&D recycling																					
Total existing/planned C&D recycling capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total waste required to meet C&D recycling target	0.320	0.327	0.334	0.341	0.348	0.356	0.356	0.356	0.356	0.356	0.356	0.370	0.384	0.398	0.412	0.427	0.427	0.427	0.427	0.427	0.427
Surplus/deficit capacity	-0.320	-0.327	-0.334	-0.341	-0.348	-0.356	-0.356	-0.356	-0.356	-0.356	-0.356	-0.370	-0.384	-0.398	-0.412	-0.427	-0.427	-0.427	-0.427	-0.427	-0.427
C&D recovery																					
(3) REGIONAL total existing/planned C&D recovery capacity	1.877	1.794	1.710	1.627	1.544	1.460	1.439	1.418	1.398	1.377	1.356	1.325	1.293	1.262	1.231	1.199	1.220	1.241	1.262	1.283	1.304
Sub-regional total waste required to meet C&D recovery target	0.256	0.252	0.247	0.243	0.239	0.235	0.239	0.243	0.247	0.252	0.256	0.245	0.233	0.222	0.211	0.199	0.202	0.205	0.208	0.211	0.213
Surplus/deficit capacity	1.621	1.542	1.463	1.384	1.305	1.225	1.200	1.175	1.150	1.125	1.100	1.080	1.060	1.040	1.020	1.000	1.018	1.036	1.054	1.072	1.090
Hazardous waste recycling																					
Total existing/planned hazardous waste recycling capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total hazardous waste to be recycled	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Surplus/deficit capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hazardous waste recovery																					
Total existing/planned hazardous waste recovery capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total hazardous waste to be recovered	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Surplus/deficit capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Non-hazardous landfill																					
Available non-hazardous landfill capacity (excluding residues from MSW and C&I recovery)		10.500	9.515	8.547	7.599	6.672	5.770	4.907	4.083	3.299	2.548	1.831	1.131	0.447	-0.220	-0.869	-1.499	-2.125	-2.747	-3.365	-3.979
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'Incineration (non-specialist)'		10.500	9.492	8.501	7.527	6.572	5.641	4.745	3.885	3.061	2.266	1.502	0.753	0.019	-0.699	-1.402	-2.087	-2.768	-3.443	-4.114	-4.780
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'MBT'		10.500	9.426	8.364	7.315	6.280	5.264	4.272	3.305	2.363	1.440	0.537	-0.355	-1.236	-2.106	-2.965	-3.811	-4.651	-5.484	-6.311	-7.131
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'RDF'		10.500	9.497	8.510	7.541	6.592	5.667	4.778	3.925	3.108	2.323	1.568	0.829	0.105	-0.603	-1.295	-1.969	-2.639	-3.304	-3.964	-4.620
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'treatment'		10.500	9.447	8.408	7.382	6.373	5.384	4.422	3.489	2.585	1.703	0.844	-0.002	-0.837	-1.658	-2.467	-3.263	-4.052	-4.835	-5.612	-6.383
Total MSW and C&I waste sent direct to non-hazardous landfill		0.591	0.575	0.557	0.536	0.510	0.481	0.451	0.421	0.398	0.374	0.360	0.345	0.330	0.315	0.298	0.293	0.288	0.283	0.278	0.272
Inert landfill																					
Available inert landfill capacity		26.051	25.919	25.789	25.663	25.539	25.418	25.301	25.189	25.081	24.977	24.878	24.781	24.687	24.596	24.508	24.422	24.340	24.260	24.183	24.109
Available inert landfill capacity assuming all MSW and C&I recovery by 'Incineration (non-specialist)'		26.051	25.896	25.743	25.590	25.439	25.289	25.140	24.991	24.843	24.695	24.549	24.403	24.259	24.116	23.975	23.835	23.698	23.564	23.435	23.308
Total C&D waste sent direct to inert landfill (excludes residues from MSW and C&I recovery)	0.135	0.132	0.129	0.127	0.124	0.121	0.117	0.112	0.108	0.104	0.100	0.097	0.094	0.091	0.088	0.085	0.082	0.080	0.077	0.074	0.071
Hazardous landfill																					
Available hazardous landfill capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total hazardous waste sent direct to hazardous landfill	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Other																					
Metal/ELV facility	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050
Ignored	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137
Closed	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

(1) ERM has assumed that 20% of the total "transfer' capacity will deliver recycling capacity
(2) ERM has assumed that 5% of the total "transfer' capacity will deliver recycling capacity
(3) Data for C&D recovery for landfill cover for the SE Region were sourced from the original MEL model, which sourced the data from Symonds (2001)
Landfill capacity data for 2005 were adapted from *Table R* in the ERM data template for each sub-region

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Buckinghamshire

DATA_08: RESIDUE RATES (%)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Recovery residues (% by weight)																					
MSW and C&I incineration (non-specialist) - bottom ash	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
MSW and C&I incineration (non-specialist) - fly ash	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
MSW and C&I to MBT	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59
MSW and C&I to RDF	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
MSW and C&I treatment - non-hazardous	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45
MSW and C&I treatment - hazardous	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Hazardous waste recovery	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Recycling residues (% by weight)																					
MSW and C&I recycling	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
MSW and C&I transfer	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
MSW and C&I composting	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
C&D recycling	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Hazardous waste recycling	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Other																					
Metal/ELV facility	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Ignored	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Closed	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Note: All residues are calculated on the amount of waste arising not on the maount of capacity available. This is complaince with the self-sufficiency requirements of PPS10.

DATA_09: TOTAL RESIDUE (Million Tonnes)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Recovery residues (of waste managed):																					
MSW and C&I incineration (non-specialist) - bottom ash	0.042	0.045	0.048	0.051	0.055	0.058	0.065	0.073	0.080	0.087	0.094	0.097	0.100	0.103	0.107	0.110	0.109	0.107	0.106	0.105	0.104
MSW and C&I incineration (non-specialist) - fly ash	0.004	0.005	0.005	0.005	0.005	0.006	0.007	0.007	0.008	0.009	0.009	0.010	0.010	0.010	0.011	0.011	0.011	0.011	0.011	0.010	0.010
MSW and C&I to MBT	0.083	0.089	0.095	0.101	0.107	0.115	0.129	0.143	0.158	0.172	0.186	0.192	0.197	0.203	0.210	0.216	0.214	0.211	0.209	0.206	0.204
MSW and C&I to RDF	0.017	0.018	0.019	0.021	0.022	0.023	0.026	0.029	0.032	0.035	0.038	0.039	0.040	0.041	0.043	0.044	0.043	0.043	0.042	0.042	0.041
MSW and C&I treatment - non-hazardous	0.063	0.068	0.072	0.077	0.082	0.088	0.098	0.109	0.120	0.131	0.142	0.146	0.151	0.155	0.160	0.165	0.163	0.161	0.159	0.157	0.155
MSW and C&I treatment - hazardous	0.007	0.008	0.008	0.009	0.009	0.010	0.011	0.012	0.013	0.015	0.016	0.016	0.017	0.017	0.018	0.018	0.018	0.018	0.018	0.017	0.017
Hazardous waste recovery	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Recycling residues (of waste managed):																					
MSW and C&I recycling and composting	0.067	0.073	0.078	0.084	0.090	0.097	0.102	0.107	0.112	0.116	0.121	0.125	0.129	0.133	0.137	0.142	0.146	0.150	0.154	0.158	0.163
C&D recycling	0.032	0.033	0.033	0.034	0.035	0.036	0.036	0.036	0.036	0.036	0.036	0.037	0.038	0.040	0.041	0.043	0.043	0.043	0.043	0.043	0.043
Hazardous waste recycling	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Note: All residues are calculated on the amount of waste arising not on the maount of capacity available. This is complaince with the self-sufficiency requirements of PPS10.

DATA_10: TOTAL MSW AND C&I RESIDUE FROM RECYCLING SENT TO NON-HAZARDOUS LANDFILL (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Total MSW and C&I recycling and composting residue sent to non-hazardous landfill	0.099	0.105	0.112	0.118	0.125	0.133	0.138	0.143	0.148	0.152	0.156	0.162	0.167	0.173	0.179	0.185	0.189	0.193	0.197	0.201	0.205

DATA_11: TOTAL MSW AND C&I RESIDUE FROM RECOVERY SENT TO NON-HAZARDOUS LANDFILL AND C&D RECYCLING (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
SCENARIO 1 - Assumes all recovery is by 'Non-specialist incineration' (based on total recovery capacity)																					
(1) Total MSW and C&I residue sent to non-hazardous landfill assuming all MSW and C&I recovery by 'Non-specialist incineration'	0.021	0.023	0.024	0.026	0.027	0.029	0.033	0.036	0.040	0.044	0.047	0.049	0.050	0.052	0.053	0.055	0.054	0.054	0.053	0.052	0.052
(1) Total MSW and C&I residue sent to inert landfill assuming all MSW and C&I recovery by 'Non-specialist incineration'	0.021	0.023	0.024	0.026	0.027	0.029	0.033	0.036	0.040	0.044	0.047	0.049	0.050	0.052	0.053	0.055	0.054	0.054	0.053	0.052	0.052
SCENARIO 2 - Assumes all recovery is by 'MBT' (based on total recovery capacity)																					
Total MSW and C&I residue sent to non-hazardous landfill	0.083	0.089	0.095	0.101	0.107	0.115	0.129	0.143	0.158	0.172	0.186	0.192	0.197	0.203	0.210	0.216	0.214	0.211	0.209	0.206	0.204
SCENARIO 3 - Assumes all recovery is by 'RDF' (based on total recovery capacity)																					
Total MSW and C&I residue sent to non-hazardous landfill	0.017	0.018	0.019	0.021	0.022	0.023	0.026	0.029	0.032	0.035	0.038	0.039	0.040	0.041	0.043	0.044	0.043	0.043	0.042	0.042	0.041
SCENARIO 4 - Assumes all recovery is by 'treatment' (based on total recovery capacity)																					
(2) Total MSW and C&I residue sent to non-hazardous landfill	0.063	0.068	0.072	0.077	0.082	0.088	0.098	0.109	0.120	0.131	0.142	0.146	0.151	0.155	0.160	0.165	0.163	0.161	0.159	0.157	0.155

(1) It was assumed that 50% of residue from 'non-specialist incineration' is sent to non-hazardous landfill and 50% is sent to inert landfill. In the original model assumptions developed MEL 50% was assumed to go to C&D recycling, rather than to inert landfi

DATA_12: TONNAGES OF C&D REUSED ON NON-HAZARDOUS AND INERT LANDFILL (Million Tonnes)

(1) C&D reused on landfill sites	39 %
(1) C&D reused on exempt sites	61 %
(1) C&D reused on landfill sites sent to 'non-haz landfill'	30 %
(1) C&D reused on landfill sites sent to 'inert landfill'	70 %

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
c&d	Total C&D reused on non-hazardous landfill	0.030	0.029	0.029	0.028	0.028	0.027	0.028	0.028	0.029	0.029	0.030	0.028	0.027	0.026	0.024	0.023	0.024	0.024	0.024	0.024	0.025
	Total reused C&D on inert landfill	0.070	0.068	0.067	0.066	0.065	0.064	0.065	0.066	0.067	0.068	0.070	0.066	0.063	0.060	0.057	0.054	0.055	0.056	0.056	0.057	0.058

(1) C&D reuse rates based on original model assumptions developed MEL
NOTE: C&D reuse on inert and non-hazardous landfill is not included within the charts because it has been assumed that data supplied by each sub-region has accounted for C&D reuse as an engineering material.

DATA_13: TOTAL MSW AND C&I RESIDUE FROM RECYCLING SENT TO HAZARDOUS LANDFILL (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Total MSW and C&I recycling and composting residue sent to hazardous landfill	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

DATA_14: TOTAL MSW AND C&I RESIDUE FROM RECOVERY SENT TO HAZARDOUS LANDFILL (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
SCENARIO 1 - Assumes all recovery is by 'Non-specialist incineration' (based on total recovery capacity)																					
Total MSW and C&I residue sent to hazardous landfill assuming all MSW and C&I recovery by 'Non-specialist incineration'	0.004	0.005	0.005	0.005	0.005	0.006	0.007	0.007	0.008	0.009	0.009	0.010	0.010	0.010	0.011	0.011	0.011	0.011	0.011	0.010	0.010
SCENARIO 2 - Assumes all recovery is by 'MBT' (based on total recovery capacity)																					
Total MSW and C&I residue sent to hazardous landfill	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SCENARIO 3 - Assumes all recovery is by 'RDF' (based on total recovery capacity)																					
Total MSW and C&I residue sent to hazardous landfill	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SCENARIO 4 - Assumes all recovery is by 'treatment' (based on total recovery capacity)																					
Total MSW and C&I residue sent to hazardous landfill	0.007	0.008	0.008	0.009	0.009	0.010	0.011	0.012	0.013	0.015	0.016	0.016	0.017	0.017	0.018	0.018	0.018	0.018	0.018	0.017	0.017

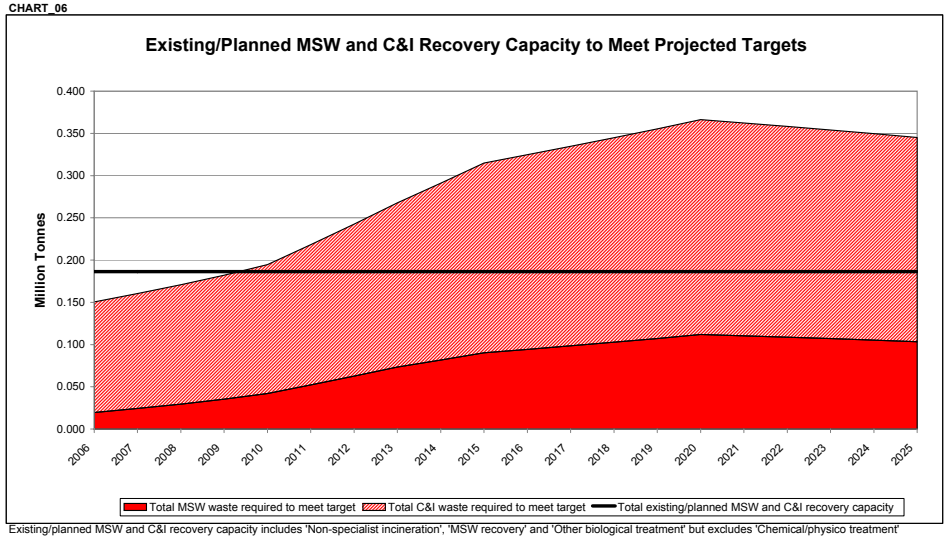
NOTE: This element of the model is redundant. There is currently no hazardous waste capacity figures to generate a chart of managed waste versus available capacity.

DATA_15: TOTAL HAZARDOUS WASTE RESIDUE FROM RECOVERY AND RECYCLING SENT TO HAZARDOUS LANDFILL (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Total hazardous waste recycling and recovery residue sent to hazardous landfill	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

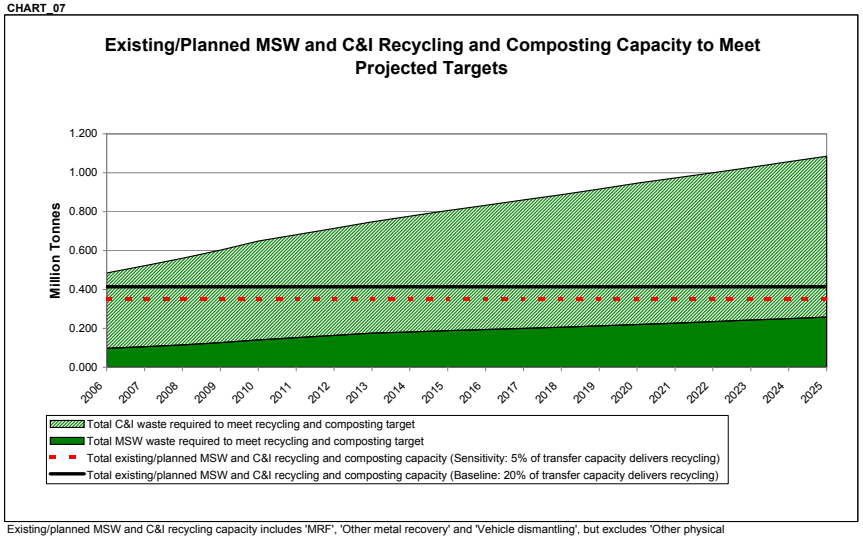
Buckinghamshire

CHART_06



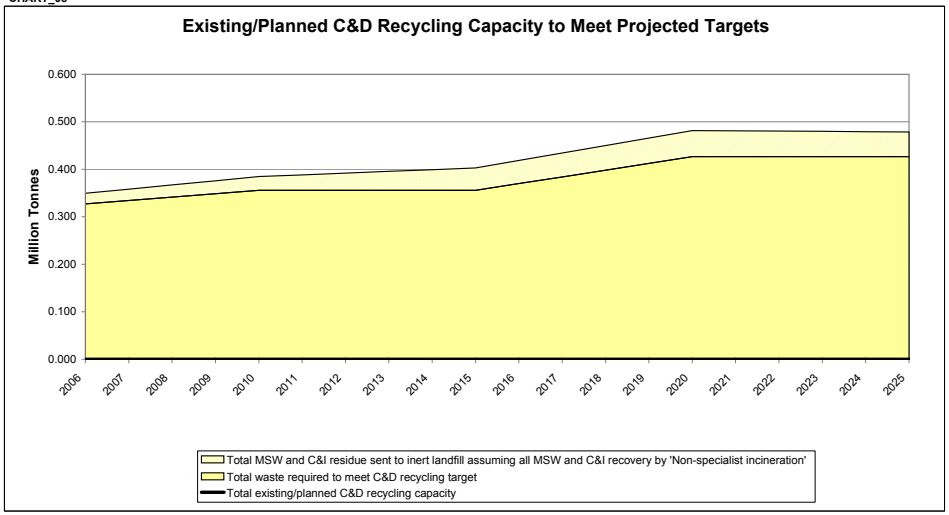
Existing/planned MSW and C&I recovery capacity includes 'Non-specialist incineration', 'MSW recovery' and 'Other biological treatment' but excludes 'Chemical/physico treatment'
NOTE: This capacity does not represent the quantity of material that is recovered.
NOTE: The original MEL model assumes that 'MSW recovery' capacity is incineration - but this is not made explicit.

CHART_07



Existing/planned MSW and C&I recycling capacity includes 'MRF', 'Other metal recovery' and 'Vehicle dismantling', but excludes 'Other physical treatment' (because this category includes CA sites)
NOTE: This capacity does not represent the quantity of material that is recycled and composted.

CHART_08



Buckinghamshire

CHART_09

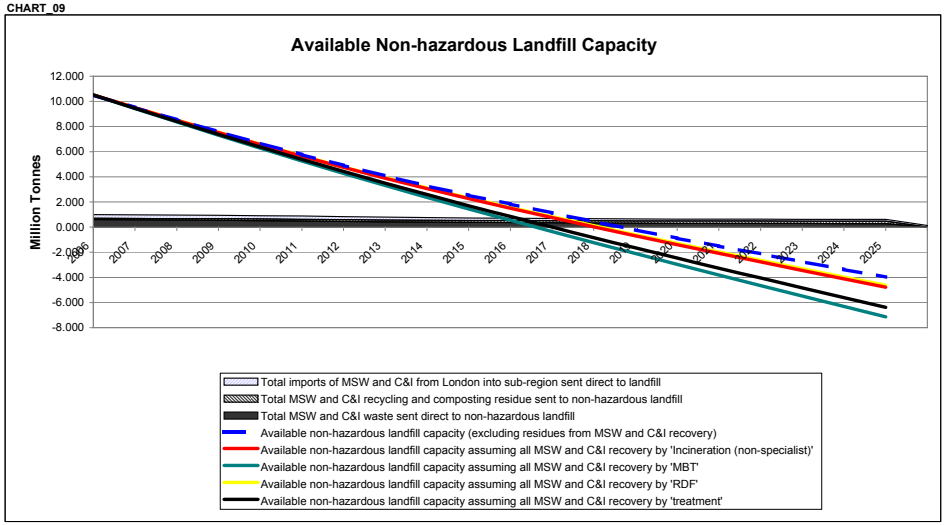
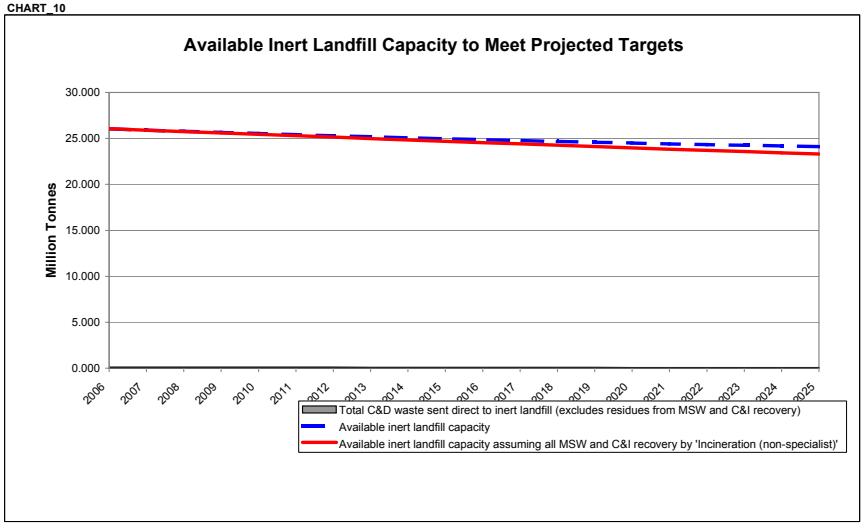


CHART_10



East Sussex

SUMMARY DATA AND RESULTS FOR EAST SUSSEX

MANAGED WASTE USED TO GENERATE RESULTS (Million Tonnes)	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	0.419	0.429	0.440	0.451	0.462	0.472	0.481	0.491	0.500	0.510	0.518	0.526	0.534	0.542	0.550	0.558	0.567	0.575	0.584	0.592
msw - imports from london that are sent direct to non-hazardous landfill	0.073	0.071	0.069	0.067	0.065	0.061	0.058	0.054	0.051	0.047	0.045	0.043	0.041	0.039	0.037	0.036	0.036	0.035	0.034	0.033
c&i	0.414	0.424	0.435	0.445	0.457	0.466	0.475	0.485	0.494	0.504	0.512	0.519	0.527	0.535	0.543	0.548	0.554	0.559	0.565	0.571
c&i - imports from london that are sent direct to non-hazardous landfill	0.072	0.070	0.068	0.066	0.064	0.061	0.057	0.054	0.050	0.046	0.044	0.042	0.041	0.039	0.037	0.036	0.035	0.034	0.033	0.032
c&d	0.370	0.370	0.370	0.370	0.370	0.370	0.370	0.370	0.370	0.370	0.370	0.370	0.370	0.370	0.370	0.370	0.370	0.370	0.370	0.370
hazardous	0.024	0.025	0.025	0.026	0.026	0.027	0.027	0.028	0.029	0.029	0.030	0.030	0.030	0.031	0.031	0.032	0.032	0.032	0.033	0.033

WASTE STREAM TONNAGES TO MEET TARGETS (Million Tonnes)		2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	LATS shortfall (how much extra is landfilled above LATS target)	*0.054*	*0.052*	*0.050*	*0.049*	*0.049*	*0.049*	*0.049*	*0.048*	*0.038*	*0.028*	*0.026*	*0.024*	*0.021*	*0.019*	*0.016*	*0.016*	*0.016*	*0.017*	*0.017*	*0.017*
	Recycling and composting target	0.179	0.188	0.198	0.210	0.223	0.235	0.247	0.260	0.267	0.274	0.282	0.289	0.297	0.305	0.313	0.323	0.334	0.345	0.356	0.368
	Recovery target	0.036	0.043	0.051	0.059	0.067	0.080	0.094	0.108	0.120	0.132	0.137	0.142	0.148	0.154	0.159	0.157	0.155	0.152	0.150	0.147
	Non-hazardous landfill	0.204	0.198	0.191	0.183	0.173	0.156	0.140	0.123	0.114	0.105	0.099	0.094	0.089	0.083	0.077	0.078	0.078	0.078	0.078	0.078
c&i	Recycling and composting target	0.174	0.187	0.200	0.214	0.228	0.238	0.247	0.257	0.267	0.277	0.287	0.296	0.306	0.316	0.326	0.335	0.343	0.352	0.362	0.371
	Recovery target	0.059	0.061	0.063	0.066	0.068	0.075	0.081	0.087	0.094	0.101	0.103	0.106	0.109	0.111	0.114	0.113	0.112	0.111	0.110	0.108
	Non-hazardous landfill	0.181	0.176	0.171	0.166	0.160	0.154	0.147	0.141	0.133	0.126	0.122	0.117	0.113	0.108	0.103	0.101	0.099	0.096	0.094	0.091
c&d	Recycling target	0.170	0.174	0.178	0.181	0.185	0.185	0.185	0.185	0.185	0.185	0.192	0.200	0.207	0.215	0.222	0.222	0.222	0.222	0.222	0.222
	Recovery target	0.131	0.129	0.127	0.124	0.122	0.124	0.127	0.129	0.131	0.133	0.127	0.121	0.115	0.110	0.104	0.105	0.107	0.108	0.110	0.111
	Inert landfill	0.069	0.067	0.066	0.064	0.063	0.061	0.058	0.056	0.054	0.052	0.050	0.049	0.047	0.046	0.044	0.043	0.041	0.040	0.038	0.037
hazardous	Hazardous waste	0.024	0.025	0.025	0.026	0.026	0.027	0.027	0.028	0.029	0.029	0.030	0.030	0.030	0.031	0.031	0.032	0.032	0.032	0.033	0.033

Note: If there is a LATS shortfall, denoted by a positive number, (ie insufficient allowance to landfill non-diverted waste) then the model assumes that this extra waste is recycled/composted and recovered at the same ratio as the regional targets for recycling/composting and recovery for that year.

EXISTING/PLANNED CAPACITY FOR RECYCLING, RECOVERY AND LANDFILLING AND TOTAL WASTE TONNAGES TO EACH DISPOSAL ROUTE (Million Tonnes)		2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
MSW and C&I recovery																					
	Total existing/planned MSW and C&I recovery capacity	0.307	0.307	0.307	0.307	0.307	0.307	0.307	0.307	0.307	0.307	0.307	0.307	0.307	0.307	0.307	0.307	0.307	0.307	0.307	0.307
	Surplus/deficit capacity	0.212	0.203	0.193	0.182	0.172	0.152	0.132	0.111	0.093	0.074	0.067	0.059	0.050	0.042	0.034	0.037	0.040	0.044	0.048	0.051
MSW and C&I recycling and composting																					
	Total existing/planned MSW and C&I recycling and composting capacity (Baseline: 20% of transfer capacity delivers recycling)	0.359	0.359	0.359	0.359	0.359	0.359	0.359	0.359	0.359	0.359	0.359	0.359	0.359	0.359	0.359	0.359	0.359	0.359	0.359	0.359
	Total existing/planned MSW and C&I recycling and composting capacity (Sensitivity: 5% of transfer capacity delivers recycling)	0.112	0.112	0.112	0.112	0.112	0.112	0.112	0.112	0.112	0.112	0.112	0.112	0.112	0.112	0.112	0.112	0.112	0.112	0.112	0.112
	Surplus/deficit capacity (Baseline: 20% of transfer capacity delivers recycling)	0.006	-0.016	-0.039	-0.065	-0.092	-0.113	-0.135	-0.158	-0.175	-0.193	-0.209	-0.227	-0.244	-0.262	-0.280	-0.299	-0.319	-0.339	-0.359	-0.380
	Surplus/deficit capacity (Sensitivity: 5% of transfer capacity delivers recycling)	-0.240	-0.262	-0.286	-0.311	-0.339	-0.360	-0.382	-0.404	-0.421	-0.439	-0.456	-0.473	-0.491	-0.508	-0.527	-0.546	-0.565	-0.585	-0.606	-0.626
C&D recycling																					
	Total existing/planned C&D recycling capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Surplus/deficit capacity	-0.170	-0.174	-0.178	-0.181	-0.185	-0.185	-0.185	-0.185	-0.185	-0.185	-0.192	-0.200	-0.207	-0.215	-0.222	-0.222	-0.222	-0.222	-0.222	-0.222
C&D recovery																					
	REGIONAL total existing/planned C&D recovery capacity	1.794	1.710	1.627	1.544	1.460	1.439	1.418	1.398	1.377	1.356	1.325	1.293	1.262	1.231	1.199	1.220	1.241	1.262	1.283	1.304
	Surplus/deficit capacity	1.663	1.582	1.500	1.419	1.338	1.315	1.292	1.269	1.246	1.223	1.197	1.172	1.147	1.121	1.096	1.115	1.135	1.154	1.173	1.193
Hazardous waste recycling																					
	Total existing/planned hazardous waste recycling capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Surplus/deficit capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hazardous waste recovery																					
	Total existing/planned hazardous waste recovery capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Surplus/deficit capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Non-hazardous landfill																					
	Available non-hazardous landfill capacity (excluding residues from MSW and C&I recovery)	0.825	0.226	-0.363	-0.940	-1.503	-2.051	-2.573	-3.067	-3.534	-3.980	-4.405	-4.820	-5.225	-5.619	-6.002	-6.375	-6.747	-7.117	-7.487	-7.856
	Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'Incineration (non-specialist)'	0.825	0.211	-0.393	-0.987	-1.568	-2.137	-2.682	-3.203	-3.699	-4.177	-4.637	-5.088	-5.530	-5.962	-6.386	-6.799	-7.211	-7.622	-8.031	-8.439
	Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'MBT'	0.825	0.170	-0.480	-1.124	-1.761	-2.389	-3.002	-3.600	-4.182	-4.754	-5.316	-5.873	-6.424	-6.970	-7.510	-8.044	-8.575	-9.103	-9.628	-10.149
	Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'RDF'	0.825	0.214	-0.387	-0.977	-1.555	-2.120	-2.660	-3.176	-3.666	-4.138	-4.591	-5.034	-5.469	-5.894	-6.309	-6.714	-7.119	-7.521	-7.922	-8.322
	Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'treatment'	0.825	0.183	-0.452	-1.080	-1.700	-2.309	-2.900	-3.473	-4.028	-4.571	-5.100	-5.623	-6.140	-6.649	-7.152	-7.648	-8.141	-8.632	-9.120	-9.605
Inert landfill																					
	Available inert landfill capacity	0.000	-0.069	-0.136	-0.202	-0.266	-0.329	-0.390	-0.448	-0.505	-0.559	-0.611	-0.661	-0.710	-0.757	-0.803	-0.847	-0.890	-0.932	-0.972	-1.010
	Available inert landfill capacity assuming all MSW and C&I recovery by 'Incineration (non-specialist)'	0.000	-0.083	-0.166	-0.249	-0.332	-0.415	-0.499	-0.584	-0.669	-0.756	-0.842	-0.929	-1.015	-1.100	-1.186	-1.272	-1.355	-1.436	-1.516	-1.593
Hazardous landfill																					
	Available hazardous landfill capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Note: The model does not contain data for the management of hazardous waste.

DATA_01: ARISINGS AND GROWTH RATES OF MSW, C&I AND HAZARDOUS WASTE (Million Tonnes)		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	Arisings of MSW in baseline year																					
	(1) Forecast regional level growth rate of MSW - per year (%)	3.0%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%
	(1) Forecast regional level growth rate of MSW - cumulative (%)	106%	109%	111%	114%	117%	120%	122%	125%	127%	130%	133%	135%	137%	139%	141%	143%	145%	147%	149%	152%	154%
	Total arisings of MSW using regional growth forecasts	0.409	0.419	0.429	0.440	0.451	0.462	0.472	0.481	0.491	0.500	0.510	0.518	0.526	0.534	0.542	0.550	0.558	0.567	0.575	0.584	0.592
	(1) Forecast sub-regional growth rate of MSW - per year (%)	2.0%	2.0%	1.0%	1.0%	1.0%	1.0%	1.0%	0.5%	0.5%	0.5%	0.5%	0.5%	0.5%	0.5%	0.5%	0.5%	0.5%	0.5%	0.5%	0.5%	0.5%
	(1) Forecast sub-regional level growth rate of MSW - cumulative (%)	104%	106%	107%	108%	109%	110%	112%	112%	113%	113%	114%	114%	115%	115%	116%	117%	117%	118%	118%	119%	120%
	Total arisings of MSW using sub-regional growth forecasts	0.401	0.409	0.413	0.417	0.421	0.425	0.430	0.432	0.434	0.436	0.438	0.440	0.443	0.445	0.447	0.449	0.452	0.454	0.456	0.458	0.461
c&i	Arisings of C&I in baseline year																					
	(1) Forecast regional level growth rate of C&I - per year (%)	3.3%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.0%	1.0%	1.0%	1.0%	1.0%
	(1) Forecast regional level growth rate of C&I - cumulative (%)	114%	117%	119%	122%	126%	129%	131%	134%	137%	139%	142%	144%	146%	149%	151%	153%	155%	156%	158%	159%	161%
	Total arisings of C&I using regional growth forecasts	0.404	0.414	0.424	0.435	0.445	0.457	0.466	0.475	0.485	0.494	0.504	0.512	0.519	0.527	0.535	0.543	0.548	0.554	0.559	0.565	0.571
	(1) Forecast sub-regional level growth rate of C&I - per year (%)	0.7%	0.7%	0.7%	0.7%	0.7%	0.7%	0.7%	0.7%	0.7%	0.7%	0.7%	0.7%	0.7%	0.7%	0.7%	0.7%	0.7%	0.7%	0.7%	0.7%	0.7%
	(1) Forecast sub-regional level growth rate of C&I - cumulative (%)	103%	104%	104%	105%	106%	106%	107%	108%	109%	109%	110%	111%	112%	113%	113%	114%	115%	116%	117%	117%	118%
	Total arisings of C&I using sub-regional growth forecasts	0.365	0.367	0.370	0.373	0.375	0.378	0.380	0.383	0.386	0.388	0.391	0.394	0.397	0.399	0.402	0.405	0.408	0.411	0.414	0.417	0.419
hazardous	Arisings of hazardous waste in baseline year																					
	(2) Forecast regional level growth rate of hazardous waste - per year (%)	3.3%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.0%	1.0%	1.0%	1.0%	1.0%
	Forecast regional level growth rate of hazardous waste - cumulative (%)	107%	109%	112%	115%	118%	121%	123%	126%	128%	131%	133%	135%	137%	139%	141%	144%	145%	146%	148%	149%	151%
	Total arisings of hazardous waste	0.023	0.024	0.025	0.025	0.026	0.026	0.027	0.027	0.028	0.029	0.029	0.030	0.030	0.030	0.031	0.031	0.032	0.032	0.032	0.033	0.033
	(2) Forecast sub-regional level growth rate of hazardous waste - per year (%)	0.7%	0.7%	0.7%	0.7%	0.7%	0.7%	0.7%	0.7%	0.7%	0.7%	0.7%	0.7%	0.7%	0.7%	0.7%	0.7%	0.7%	0.7%	0.7%	0.7%	0.7%
	Forecast sub regional level growth rate of hazardous waste - cumulative (%)	101%	102%	103%	104%	104%	105%	106%	106%	107%	108%	109%	109%	110%	111%	112%	113%	113%	114%	115%	116%	117%
	Total arisings of hazardous waste	0.022	0.022	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.024	0.024	0.024	0.024	0.024	0.024	0.025	0.025	0.025	0.025	0.025	0.026
c&d	Total managed C&D in baseline year																					
	(3) Forecast regional-level growth rate of managed C&D - per year (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Forecast regional-level growth rate of managed C&D - cumulative (%)	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
	(3) Total managed of C&D for the sub-region	0.370	0.370	0.370	0.370	0.370	0.370	0.370	0.370	0.370	0.370	0.370	0.370	0.370	0.370	0.370	0.370	0.370	0.370	0.370	0.370	0.370

(1) Figures from SEERA updated waste capacity model by ERM in 2005.
(2) Baseline year of hazardous waste arisings is 2003 from EA Hazardous Waste Interrogator. www.environment-agency.gov.uk/apps/wastesurvey2/. ERM has assumed that growth in hazardous waste is equal to C&I waste.
(3) These data represent managed C&D waste in the sub-region, including all intra-regional and inter-regional movements. Growth is assumed to be zero from the orginal MEL study and updated modeted by ERM in 2005.
NOTE: C&D waste is not included in arisings because this was taken from survey data by Symonds 2001 which gave values for managed C&D waste.

East Sussex

Figure in blue represent data supplied by each sub-region for the new '2006 SEERA Capacity and Need Model'
Figures in orange represent managed waste that are used by the model to calculate results. These can be adjusted for different scenarios.

DATA_02: INTER REGIONAL MOVEMENTS OF MSW and C&I (Million Tonnes)		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw and c&i	Regional level imports of MSW and C&I waste into the SE region from London	1.76	1.716	1.672	1.628	1.584	1.54	1.454	1.368	1.282	1.196	1.11	1.064	1.018	0.972	0.926	0.88	0.86	0.84	0.82	0.8	0.78
	Proportion of regional MSW and C&I imports that go to the sub-region (%)	8.4%	8.4%	8.4%	8.4%	8.4%	8.4%	8.4%	8.4%	8.4%	8.4%	8.4%	8.4%	8.4%	8.4%	8.4%	8.4%	8.4%	8.4%	8.4%	8.4%	8.4%
(1)	Total imports of MSW and C&I from London into sub-region sent direct to landfill	0.148	0.144	0.140	0.137	0.133	0.129	0.122	0.115	0.108	0.100	0.093	0.089	0.086	0.082	0.078	0.074	0.072	0.071	0.069	0.067	0.066
msw	Proportion of total MSW and C&I imports that are MSW (%) - REGIONAL GROWTH FORECAST	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	51%	51%	51%	51%
	Total imports of MSW into the sub-region from London - REGIONAL GROWTH FORECAST	0.074	0.073	0.071	0.069	0.067	0.065	0.061	0.058	0.054	0.051	0.047	0.045	0.043	0.041	0.039	0.037	0.036	0.036	0.035	0.034	0.033
	Proportion of total MSW and C&I imports that are MSW (%) - SUB-REGIONAL GROWTH FORECAST	52%	53%	53%	53%	53%	53%	53%	53%	53%	53%	53%	53%	53%	53%	53%	53%	53%	52%	52%	52%	52%
	Total imports of MSW into the sub-region from London - SUB-REGIONAL GROWTH FORECAST	0.077	0.076	0.074	0.072	0.070	0.069	0.065	0.061	0.057	0.053	0.049	0.047	0.045	0.043	0.041	0.039	0.038	0.037	0.036	0.035	0.034
c&i	Proportion of total MSW and C&I imports that are C&I (%) - REGIONAL GROWTH FORECAST	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	49%	49%	49%	49%
	Total imports of C&I into the sub-region from London - REGIONAL GROWTH FORECAST	0.073	0.072	0.070	0.068	0.066	0.064	0.061	0.057	0.054	0.050	0.046	0.044	0.042	0.041	0.039	0.037	0.036	0.035	0.034	0.033	0.032
	Proportion of total MSW and C&I imports that are C&I (%) - SUB-REGIONAL GROWTH FORECAST	48%	47%	47%	47%	47%	47%	47%	47%	47%	47%	47%	47%	47%	47%	47%	47%	47%	48%	48%	48%	48%
	Total imports of C&I into the sub-region from London - SUB-REGIONAL GROWTH FORECAST	0.070	0.068	0.066	0.065	0.063	0.061	0.057	0.054	0.051	0.047	0.044	0.042	0.040	0.039	0.037	0.035	0.034	0.034	0.033	0.032	0.031

(1) Intra-regional and inter-regional movements have been excluded for MSW and C&I waste due to self-sufficiency requirements under PPS10, except for inter-regional movements from London into the sub-region. Apportionment from Policy W3 in the SEERA Plan. http://www.southeast-ra.gov.uk/southeastplan/plan/march_2006/core_document/009_seera_sep_d06.pdf
Note: Only a figure is available for total combined imports of MSW and C&I waste. ERM has assumed that imports of the seperate waste streams of MSW and C&I was split according to tonnage arisings of MSW and C&I in the sub-region.

DATA_03: MANAGED WASTE USED TO GENERATE RESULTS (Million Tonnes)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	0.409	0.419	0.429	0.440	0.451	0.462	0.472	0.481	0.491	0.500	0.510	0.518	0.526	0.534	0.542	0.550	0.558	0.567	0.575	0.584	0.592
msw - imports from london that are sent direct to non-hazardous landfill	0.074	0.073	0.071	0.069	0.067	0.065	0.061	0.058	0.054	0.051	0.047	0.045	0.043	0.041	0.039	0.037	0.036	0.036	0.035	0.034	0.033
c&i	0.404	0.414	0.424	0.435	0.445	0.457	0.466	0.475	0.485	0.494	0.504	0.512	0.519	0.527	0.535	0.543	0.548	0.554	0.559	0.565	0.571
c&i - imports from london that are sent direct to non-hazardous landfill	0.073	0.072	0.070	0.068	0.066	0.064	0.061	0.057	0.054	0.050	0.046	0.044	0.042	0.041	0.039	0.037	0.036	0.035	0.034	0.033	0.032
c&d	0.370	0.370	0.370	0.370	0.370	0.370	0.370	0.370	0.370	0.370	0.370	0.370	0.370	0.370	0.370	0.370	0.370	0.370	0.370	0.370	0.370
hazardous	0.023	0.024	0.025	0.025	0.026	0.026	0.027	0.027	0.028	0.029	0.029	0.030	0.030	0.030	0.031	0.031	0.032	0.032	0.032	0.033	0.033

DATA_04: TARGETS (% or Million Tonnes)		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	(1) landfill (Mt)	0.124	0.122	0.118	0.114	0.109	0.102	0.091	0.079	0.068	0.065	0.062	0.059	0.056	0.053	0.050	0.048	0.048	0.048	0.048	0.048	0.048
	recovered (%)	5	6.4	7.8	9.2	10.6	12	14.4	16.8	19.2	21.6	24	24.8	25.6	26.4	27.2	28	27.2	26.4	25.6	24.8	24
	recycled and composted (%)	30	32.0	34.0	36.0	38.0	40	42.0	44.0	46.0	48.0	50	51.0	52.0	53.0	54.0	55	56.0	57.0	58.0	59.0	60
c&i	recovered (%)	14	14.2	14.4	14.6	14.8	15	16.0	17.0	18.0	19.0	20	20.2	20.4	20.6	20.8	21	20.6	20.2	19.8	19.4	19
	recycled and composted (%)	40	42.0	44.0	46.0	48.0	50	51.0	52.0	53.0	54.0	55	56.0	57.0	58.0	59.0	60	61.0	62.0	63.0	64.0	65
c&d	recovered (%)	36	35.4	34.8	34.2	33.6	33	33.6	34.2	34.8	35.4	36	34.4	32.8	31.2	29.6	28	28.4	28.8	29.2	29.6	30
	recycled (%)	45	46.0	47.0	48.0	49.0	50	50.0	50.0	50.0	50.0	50	52.0	54.0	56.0	58.0	60	60.0	60.0	60.0	60.0	60
hazardous	landfill (%)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	recovered (%)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	recycled (%)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

(1) ERM has assumed that the LATS target allowance remains constant at the 2020 value for the years beyond 2020

DATA_05: WASTE STREAM TONNAGES TO MEET TARGETS (Million Tonnes)		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025

This first section of DATA_03 calculates if there is a LATS shortfall or suplus in each year. If there is a LATS shortfall (ie insufficient allowance to landfill non-diverted waste) then the model assumes that this extra waste is recycled/composted and r

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	Total MSW to be recovered and recycled/composted to meet target	0.143	0.161	0.179	0.199	0.219	0.240	0.266	0.292	0.320	0.348	0.378	0.393	0.408	0.424	0.440	0.456	0.464	0.472	0.481	0.489	0.498
	Total MSW not-diverted by targets	0.266	0.258	0.250	0.241	0.232	0.222	0.206	0.189	0.171	0.152	0.133	0.125	0.118	0.110	0.102	0.093	0.094	0.094	0.094	0.095	0.095
	Percentage of MSW that is biodegradable (% by weight)	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68
	Total BMW not-diverted by targets	0.181	0.175	0.170	0.164	0.158	0.151	0.140	0.128	0.116	0.103	0.090	0.085	0.080	0.075	0.069	0.064	0.064	0.064	0.064	0.064	0.064
	LATS shortfall (how much extra is landfilled above LATS target)	0.057	0.054	0.052	0.050	0.049	0.049	0.049	0.049	0.048	0.038	0.028	0.026	0.024	0.021	0.019	0.016	0.016	0.016	0.017	0.017	0.017
	Ratio of 'recovered' to 'recycled/composted' for target (%)	14%	17%	19%	20%	22%	23%	26%	28%	29%	31%	32%	33%	33%	33%	33%	34%	33%	32%	31%	30%	29%
	Extra MSW 'recovery' needed due to LATS shortfall	*0.008*	*0.009*	*0.010*	*0.010*	*0.011*	*0.011*	*0.013*	*0.014*	*0.014*	*0.012*	*0.009*	*0.009*	*0.008*	*0.007*	*0.006*	*0.005*	*0.005*	*0.005*	*0.005*	*0.005*	*0.005*
	Extra MSW 'recycling/composting' needed due to LATS shortfall	*0.049*	*0.045*	*0.042*	*0.040*	*0.038*	*0.038*	*0.037*	*0.035*	*0.034*	*0.026*	*0.019*	*0.018*	*0.016*	*0.014*	*0.012*	*0.011*	*0.011*	*0.011*	*0.011*	*0.012*	*0.012*

The section below in DATA_03 shows the tonnages by waste to meet targets.

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	Recycling and composting target	0.171	0.179	0.188	0.198	0.210	0.223	0.235	0.247	0.260	0.267	0.274	0.282	0.289	0.297	0.305	0.313	0.323	0.334	0.345	0.356	0.368
	Recovery target	0.029	0.036	0.043	0.051	0.059	0.067	0.080	0.094	0.108	0.120	0.132	0.137	0.142	0.148	0.154	0.159	0.157	0.155	0.152	0.150	0.147
	Non-hazardous landfill	0.209	0.204	0.198	0.191	0.183	0.173	0.156	0.140	0.123	0.114	0.105	0.099	0.094	0.089	0.083	0.077	0.078	0.078	0.078	0.078	0.078
	CHECK COUNTER (should be zero)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
c&i	Recycling and composting target	0.161	0.174	0.187	0.200	0.214	0.228	0.238	0.247	0.257	0.267	0.277	0.287	0.296	0.306	0.316	0.326	0.335	0.343	0.352	0.362	0.371
	Recovery target	0.056	0.059	0.061	0.063	0.066	0.068	0.075	0.081	0.087	0.094	0.101	0.103	0.106	0.109	0.111	0.114	0.113	0.112	0.111	0.110	0.108
	Non-hazardous landfill	0.186	0.181	0.176	0.171	0.166	0.160	0.154	0.147	0.141	0.133	0.126	0.122	0.117	0.113	0.108	0.103	0.101	0.099	0.096	0.094	0.091
	CHECK COUNTER (should be zero)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
c&d	Recycling target	0.167	0.170	0.174	0.178	0.181	0.185	0.185	0.185	0.185	0.185	0.185	0.192	0.200	0.207	0.215	0.222	0.222	0.222	0.222	0.222	0.222
	Recovery target	0.133	0.131	0.129	0.127	0.124	0.122	0.124	0.127	0.129	0.131	0.133	0.127	0.121	0.115	0.110	0.104	0.105	0.107	0.108	0.110	0.111
	Inert landfill	0.070	0.069	0.067	0.066	0.064	0.063	0.061	0.058	0.056	0.054	0.052	0.050	0.049	0.047	0.046	0.044	0.043	0.041	0.040	0.038	0.037
	CHECK COUNTER (should be zero)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
hazardous	Hazardous waste	0.023	0.024	0.025	0.025	0.026	0.026	0.027	0.027	0.028	0.029	0.029	0.030	0.030	0.030	0.031	0.031	0.032	0.032	0.032	0.033	0.033

DATA_06: TOTAL WASTE TONNAGES TO MEET TARGETS (Million Tonnes)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
MSW and C&I recycling and composting target	0.333	0.353	0.374	0.398	0.424	0.451	0.472	0.494	0.516	0.534	0.551	0.568	0.585	0.603	0.621	0.639	0.658	0.678	0.697	0.718	0.738
C&D recycling target	0.167	0.170	0.174	0.178	0.181	0.185	0.185	0.185	0.185	0.185	0.185	0.192	0.200	0.207	0.215	0.222	0.222	0.222	0.222	0.222	0.222
MSW and C&I recovery target	0.085	0.095	0.104	0.114	0.124	0.135	0.155	0.175	0.196	0.214	0.232	0.240	0.248	0.257	0.265	0.273	0.270	0.267	0.263	0.259	0.255
C&D recovery target	0.133	0.131	0.129	0.127	0.124	0.122	0.124	0.127	0.129	0.131	0.133	0.127	0.121	0.115	0.110	0.104	0.105	0.107	0.108	0.110	0.111
Non-hazardous landfill	0.394	0.385	0.375	0.362	0.348	0.333	0.310	0.287	0.263	0.247	0.231	0.221	0.211	0.201	0.191	0.181	0.178	0.176	0.174	0.172	0.169
Inert landfill	0.070	0.069	0.067	0.066	0.064	0.063	0.061	0.058	0.056	0.054	0.052	0.050	0.049	0.047	0.046	0.044	0.043	0.041	0.040	0.038	0.037
Hazardous waste	0.023	0.024	0.025	0.025	0.026	0.026	0.027	0.027	0.028	0.029	0.029	0.030	0.030	0.030	0.031	0.031	0.032	0.032	0.032	0.033	0.033

East Sussex

CHART_01

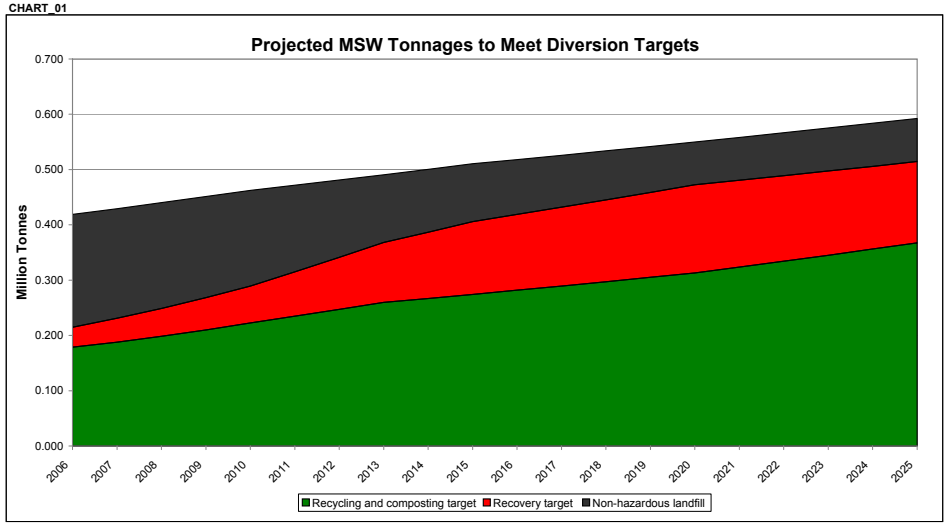


CHART_02

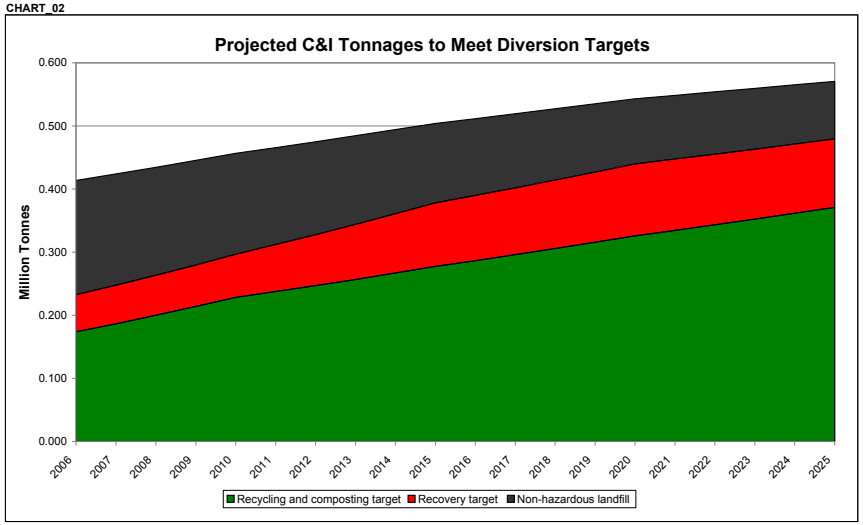
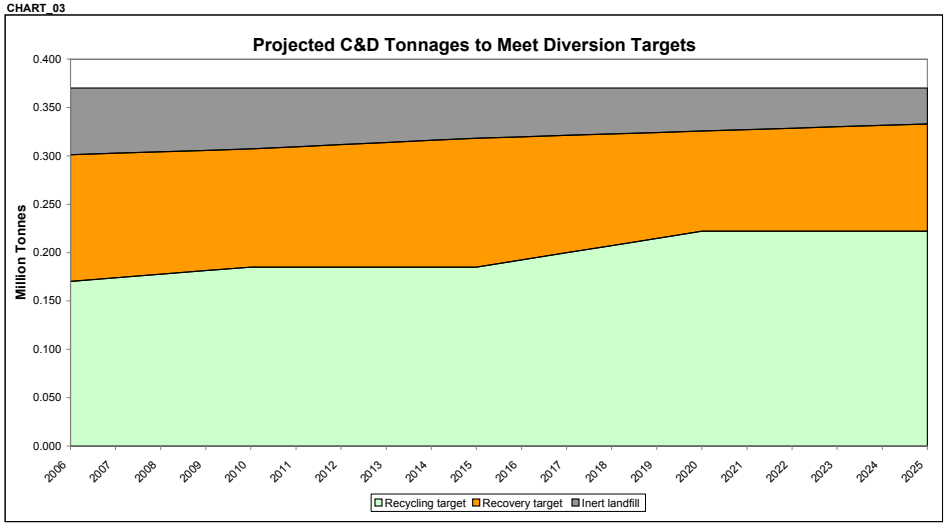


CHART_03



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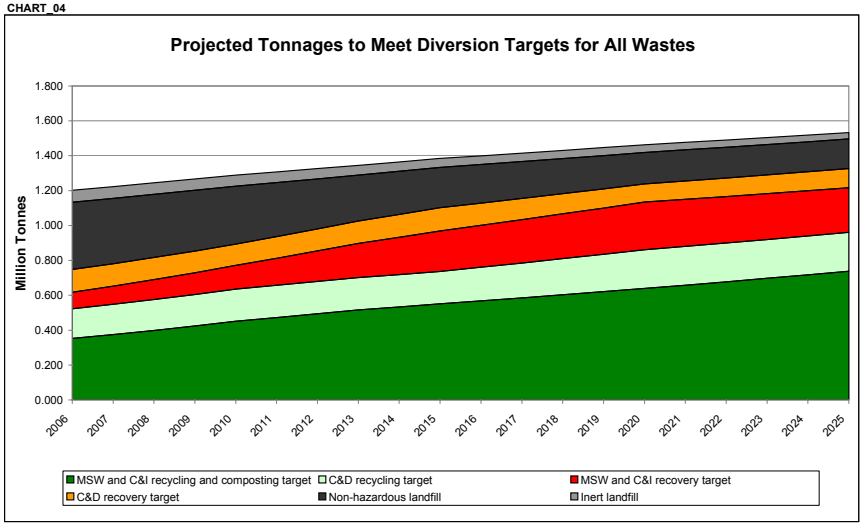
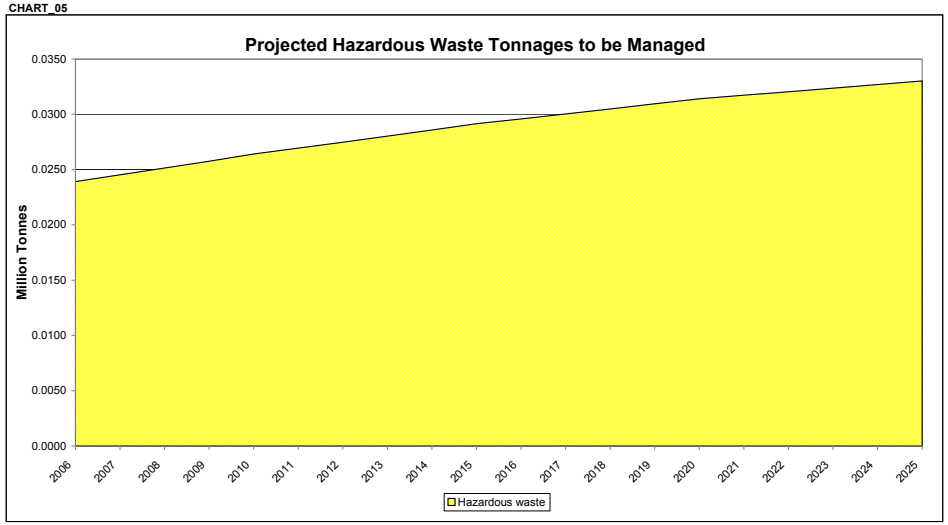


East Sussex

CHART_05



DATA_07: EXISTING/PLANNED CAPACITY FOR RECYCLING, RECOVERY AND LANDFILLING AND TOTAL WASTE TONNAGES TO EACH DISPOSAL ROUTE (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
MSW and C&I recovery																					
MSW and C&I incineration (non-specialist)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
MSW and C&I treatment	0.306	0.306	0.306	0.306	0.306	0.306	0.306	0.306	0.306	0.306	0.306	0.306	0.306	0.306	0.306	0.306	0.306	0.306	0.306	0.306	0.306
Total existing/planned MSW and C&I recovery capacity	0.307	0.307	0.307	0.307	0.307	0.307	0.307	0.307	0.307	0.307	0.307	0.307	0.307	0.307	0.307	0.307	0.307	0.307	0.307	0.307	0.307
Total MSW waste required to meet target	0.029	0.036	0.043	0.051	0.059	0.067	0.080	0.094	0.108	0.120	0.132	0.137	0.142	0.148	0.154	0.159	0.157	0.155	0.152	0.150	0.147
Total C&I waste required to meet target	0.056	0.059	0.061	0.063	0.066	0.068	0.075	0.081	0.087	0.094	0.101	0.103	0.106	0.109	0.111	0.114	0.113	0.112	0.111	0.110	0.108
Surplus/deficit capacity	0.222	0.212	0.203	0.193	0.182	0.172	0.152	0.132	0.111	0.093	0.074	0.067	0.059	0.050	0.042	0.034	0.037	0.040	0.044	0.048	0.051
MSW and C&I recycling and composting																					
MSW and C&I recycling	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
MSW and C&I transfer	1.644	1.644	1.644	1.644	1.644	1.644	1.644	1.644	1.644	1.644	1.644	1.644	1.644	1.644	1.644	1.644	1.644	1.644	1.644	1.644	1.644
Total existing/planned composting capacity	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030
(1) Total existing/planned MSW and C&I recycling and composting capacity (Baseline: 20% of transfer capacity delivers recycling)	0.359	0.359	0.359	0.359	0.359	0.359	0.359	0.359	0.359	0.359	0.359	0.359	0.359	0.359	0.359	0.359	0.359	0.359	0.359	0.359	0.359
(2) Total existing/planned MSW and C&I recycling and composting capacity (Sensitivity: 5% of transfer capacity delivers recycling)	0.112	0.112	0.112	0.112	0.112	0.112	0.112	0.112	0.112	0.112	0.112	0.112	0.112	0.112	0.112	0.112	0.112	0.112	0.112	0.112	0.112
Total MSW waste required to meet recycling and composting target	0.171	0.179	0.188	0.198	0.210	0.223	0.235	0.247	0.260	0.267	0.274	0.282	0.289	0.297	0.305	0.313	0.323	0.334	0.345	0.356	0.368
Total C&I waste required to meet recycling and composting target	0.161	0.174	0.187	0.200	0.214	0.228	0.238	0.247	0.257	0.267	0.277	0.287	0.296	0.306	0.316	0.326	0.335	0.343	0.352	0.362	0.371
Surplus/deficit capacity (Baseline: 20% of transfer capacity delivers recycling)	0.026	0.006	-0.016	-0.039	-0.065	-0.092	-0.113	-0.135	-0.158	-0.175	-0.193	-0.209	-0.227	-0.244	-0.262	-0.280	-0.299	-0.319	-0.339	-0.359	-0.380
Surplus/deficit capacity (Sensitivity: 5% of transfer capacity delivers recycling)	-0.220	-0.240	-0.262	-0.286	-0.311	-0.339	-0.360	-0.382	-0.404	-0.421	-0.439	-0.456	-0.473	-0.491	-0.508	-0.527	-0.546	-0.565	-0.585	-0.606	-0.626
C&D recycling																					
Total existing/planned C&D recycling capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total waste required to meet C&D recycling target	0.167	0.170	0.174	0.178	0.181	0.185	0.185	0.185	0.185	0.185	0.185	0.192	0.200	0.207	0.215	0.222	0.222	0.222	0.222	0.222	0.222
Surplus/deficit capacity	-0.167	-0.170	-0.174	-0.178	-0.181	-0.185	-0.185	-0.185	-0.185	-0.185	-0.185	-0.192	-0.200	-0.207	-0.215	-0.222	-0.222	-0.222	-0.222	-0.222	-0.222
C&D recovery																					
(3) REGIONAL total existing/planned C&D recovery capacity	1.877	1.794	1.710	1.627	1.544	1.460	1.439	1.418	1.398	1.377	1.356	1.325	1.293	1.262	1.231	1.199	1.220	1.241	1.262	1.283	1.304
Sub-regional total waste required to meet C&D recovery target	0.133	0.131	0.129	0.127	0.124	0.122	0.124	0.127	0.129	0.131	0.133	0.127	0.121	0.115	0.110	0.104	0.105	0.107	0.108	0.110	0.111
Surplus/deficit capacity	1.744	1.663	1.582	1.500	1.419	1.338	1.315	1.292	1.269	1.246	1.223	1.197	1.172	1.147	1.121	1.096	1.115	1.135	1.154	1.173	1.193
Hazardous waste recycling																					
Total existing/planned hazardous waste recycling capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total hazardous waste to be recycled	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Surplus/deficit capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hazardous waste recovery																					
Total existing/planned hazardous waste recovery capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total hazardous waste to be recovered	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Surplus/deficit capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Non-hazardous landfill																					
Available non-hazardous landfill capacity (excluding residues from MSW and C&I recovery)		0.825	0.226	-0.363	-0.940	-1.503	-2.051	-2.573	-3.067	-3.534	-3.980	-4.405	-4.820	-5.225	-5.619	-6.002	-6.375	-6.747	-7.117	-7.487	-7.856
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'Incineration (non-specialist)'		0.825	0.211	-0.393	-0.987	-1.568	-2.137	-2.682	-3.203	-3.699	-4.177	-4.637	-5.088	-5.530	-5.962	-6.386	-6.799	-7.211	-7.622	-8.031	-8.439
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'MBT'		0.825	0.170	-0.480	-1.124	-1.761	-2.389	-3.002	-3.600	-4.182	-4.754	-5.316	-5.873	-6.424	-6.970	-7.510	-8.044	-8.575	-9.103	-9.628	-10.149
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'RDF'		0.825	0.214	-0.387	-0.977	-1.555	-2.120	-2.660	-3.176	-3.666	-4.138	-4.591	-5.034	-5.469	-5.894	-6.309	-6.714	-7.119	-7.521	-7.922	-8.322
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'treatment'		0.825	0.183	-0.452	-1.080	-1.700	-2.309	-2.900	-3.473	-4.028	-4.571	-5.100	-5.623	-6.140	-6.649	-7.152	-7.648	-8.141	-8.632	-9.120	-9.605
Total MSW and C&I waste sent direct to non-hazardous landfill		0.385	0.375	0.362	0.348	0.333	0.310	0.287	0.263	0.247	0.231	0.221	0.211	0.201	0.191	0.181	0.178	0.176	0.174	0.172	0.169
Inert landfill																					
Available inert landfill capacity		0.000	-0.069	-0.136	-0.202	-0.266	-0.329	-0.390	-0.448	-0.505	-0.559	-0.611	-0.661	-0.710	-0.757	-0.803	-0.847	-0.890	-0.932	-0.972	-1.010
Available inert landfill capacity assuming all MSW and C&I recovery by 'Incineration (non-specialist)'		0.000	-0.083	-0.166	-0.249	-0.332	-0.415	-0.499	-0.584	-0.669	-0.756	-0.842	-0.929	-1.015	-1.100	-1.186	-1.272	-1.355	-1.436	-1.516	-1.593
Total C&D waste sent direct to inert landfill (excludes residues from MSW and C&I recovery)	0.070	0.069	0.067	0.066	0.064	0.063	0.061	0.058	0.056	0.054	0.052	0.050	0.049	0.047	0.046	0.044	0.043	0.041	0.040	0.038	0.037
Hazardous landfill																					
Available hazardous landfill capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total hazardous waste sent direct to hazardous landfill	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Other																					
Metal/ELV facility	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
Ignored	0.086	0.086	0.086	0.086	0.086	0.086	0.086	0.086	0.086	0.086	0.086	0.086	0.086	0.086	0.086	0.086	0.086	0.086	0.086	0.086	0.086
Closed	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

(1) ERM has assumed that 20% of the total "transfer' capacity will deliver recycling capacity
(2) ERM has assumed that 5% of the total "transfer' capacity will deliver recycling capacity
(3) Data for C&D recovery for landfill cover for the SE Region were sourced from the original MEL model, which sourced the data from Symonds (2001)
Landfill capacity data for 2005 were adapted from *Table R* in the ERM data template for each sub-region

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East Sussex

DATA_08: RESIDUE RATES (%)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Recovery residues (% by weight)																					
MSW and C&I incineration (non-specialist) - bottom ash	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
MSW and C&I incineration (non-specialist) - fly ash	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
MSW and C&I to MBT	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59
MSW and C&I to RDF	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
MSW and C&I treatment - non-hazardous	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45
MSW and C&I treatment - hazardous	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Hazardous waste recovery	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Recycling residues (% by weight)																					
MSW and C&I recycling	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
MSW and C&I transfer	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
MSW and C&I composting	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
C&D recycling	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Hazardous waste recycling	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Other																					
Metal/ELV facility	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Ignored	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Closed	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Note: All residues are calculated on the amount of waste arising not on the maount of capacity available. This is complaince with the self-sufficiency requirements of PPS10.

DATA_09: TOTAL RESIDUE (Million Tonnes)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Recovery residues (of waste managed):																					
MSW and C&I incineration (non-specialist) - bottom ash	0.026	0.028	0.031	0.034	0.037	0.041	0.046	0.053	0.059	0.064	0.070	0.072	0.075	0.077	0.079	0.082	0.081	0.080	0.079	0.078	0.077
MSW and C&I incineration (non-specialist) - fly ash	0.003	0.003	0.003	0.003	0.004	0.004	0.005	0.005	0.006	0.006	0.007	0.007	0.007	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
MSW and C&I to MBT	0.050	0.056	0.061	0.067	0.073	0.080	0.091	0.103	0.115	0.126	0.137	0.142	0.147	0.151	0.156	0.161	0.159	0.157	0.155	0.153	0.151
MSW and C&I to RDF	0.010	0.011	0.012	0.014	0.015	0.016	0.019	0.021	0.023	0.026	0.028	0.029	0.030	0.031	0.032	0.033	0.032	0.032	0.032	0.031	0.031
MSW and C&I treatment - non-hazardous	0.038	0.043	0.047	0.051	0.056	0.061	0.070	0.079	0.088	0.096	0.105	0.108	0.112	0.115	0.119	0.123	0.122	0.120	0.118	0.117	0.115
MSW and C&I treatment - hazardous	0.004	0.005	0.005	0.006	0.006	0.007	0.008	0.009	0.010	0.011	0.012	0.012	0.012	0.013	0.013	0.014	0.014	0.013	0.013	0.013	0.013
Hazardous waste recovery	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Recycling residues (of waste managed):																					
MSW and C&I recycling and composting	0.050	0.053	0.056	0.060	0.064	0.068	0.071	0.074	0.077	0.080	0.083	0.085	0.088	0.090	0.093	0.096	0.099	0.102	0.105	0.108	0.111
C&D recycling	0.017	0.017	0.017	0.018	0.018	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.020	0.021	0.021	0.022	0.022	0.022	0.022	0.022	0.022
Hazardous waste recycling	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Note: All residues are calculated on the amount of waste arising not on the maount of capacity available. This is complaince with the self-sufficiency requirements of PPS10.

DATA_10: TOTAL MSW AND C&I RESIDUE FROM RECYCLING SENT TO NON-HAZARDOUS LANDFILL (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Total MSW and C&I recycling and composting residue sent to non-hazardous landfill	0.067	0.070	0.074	0.077	0.082	0.086	0.089	0.093	0.096	0.099	0.101	0.104	0.108	0.111	0.115	0.118	0.121	0.124	0.127	0.130	0.133

DATA_11: TOTAL MSW AND C&I RESIDUE FROM RECOVERY SENT TO NON-HAZARDOUS LANDFILL AND C&D RECYCLING (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
SCENARIO 1 - Assumes all recovery is by 'Non-specialist incineration' (based on total recovery capacity)																					
(1) Total MSW and C&I residue sent to non-hazardous landfill assuming all MSW and C&I recovery by 'Non-specialist incineration'	0.013	0.014	0.016	0.017	0.019	0.020	0.023	0.026	0.029	0.032	0.035	0.036	0.037	0.038	0.040	0.041	0.041	0.040	0.039	0.039	0.038
(1) Total MSW and C&I residue sent to inert landfill assuming all MSW and C&I recovery by 'Non-specialist incineration'	0.013	0.014	0.016	0.017	0.019	0.020	0.023	0.026	0.029	0.032	0.035	0.036	0.037	0.038	0.040	0.041	0.041	0.040	0.039	0.039	0.038
SCENARIO 2 - Assumes all recovery is by 'MBT' (based on total recovery capacity)																					
Total MSW and C&I residue sent to non-hazardous landfill	0.050	0.056	0.061	0.067	0.073	0.080	0.091	0.103	0.115	0.126	0.137	0.142	0.147	0.151	0.156	0.161	0.159	0.157	0.155	0.153	0.151
SCENARIO 3 - Assumes all recovery is by 'RDF' (based on total recovery capacity)																					
Total MSW and C&I residue sent to non-hazardous landfill	0.010	0.011	0.012	0.014	0.015	0.016	0.019	0.021	0.023	0.026	0.028	0.029	0.030	0.031	0.032	0.033	0.032	0.032	0.032	0.031	0.031
SCENARIO 4 - Assumes all recovery is by 'treatment' (based on total recovery capacity)																					
(2) Total MSW and C&I residue sent to non-hazardous landfill	0.038	0.043	0.047	0.051	0.056	0.061	0.070	0.079	0.088	0.096	0.105	0.108	0.112	0.115	0.119	0.123	0.122	0.120	0.118	0.117	0.115

(1) It was assumed that 50% of residue from 'non-specialist incineration' is sent to non-hazardous landfill and 50% is sent to inert landfill. In the original model assumptions developed MEL 50% was assumed to go to C&D recycling, rather than to inert landfi

DATA_12: TONNAGES OF C&D REUSED ON NON-HAZARDOUS AND INERT LANDFILL (Million Tonnes)

(1) C&D reused on landfill sites	39	%
(1) C&D reused on exempt sites	61	%
(1) C&D reused on landfill sites sent to 'non-haz landfill'	30	%
(1) C&D reused on landfill sites sent to 'inert landfill'	70	%

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
c&d	Total C&D reused on non-hazardous landfill	0.016	0.015	0.015	0.015	0.014	0.014	0.014	0.015	0.015	0.015	0.016	0.015	0.014	0.013	0.013	0.012	0.012	0.012	0.013	0.013	0.013
	Total reused C&D on inert landfill	0.036	0.036	0.035	0.034	0.034	0.033	0.034	0.034	0.035	0.036	0.036	0.035	0.033	0.031	0.030	0.028	0.029	0.029	0.029	0.030	0.030

(1) C&D reuse rates based on original model assumptions developed MEL

NOTE: C&D reuse on inert and non-hazardous landfill is not included within the charts because it has been assumed that data supplied by each sub-region has accounted for C&D reuse as an engineering material.

DATA_13: TOTAL MSW AND C&I RESIDUE FROM RECYCLING SENT TO HAZARDOUS LANDFILL (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Total MSW and C&I recycling and composting residue sent to hazardous landfill	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

DATA_14: TOTAL MSW AND C&I RESIDUE FROM RECOVERY SENT TO HAZARDOUS LANDFILL (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
SCENARIO 1 - Assumes all recovery is by 'Non-specialist incineration' (based on total recovery capacity)																					
Total MSW and C&I residue sent to hazardous landfill assuming all MSW and C&I recovery by 'Non-specialist incineration'	0.003	0.003	0.003	0.003	0.004	0.004	0.005	0.005	0.006	0.006	0.007	0.007	0.007	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
SCENARIO 2 - Assumes all recovery is by 'MBT' (based on total recovery capacity)																					
Total MSW and C&I residue sent to hazardous landfill	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SCENARIO 3 - Assumes all recovery is by 'RDF' (based on total recovery capacity)																					
Total MSW and C&I residue sent to hazardous landfill	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SCENARIO 4 - Assumes all recovery is by 'treatment' (based on total recovery capacity)																					
Total MSW and C&I residue sent to hazardous landfill	0.004	0.005	0.005	0.006	0.006	0.007	0.008	0.009	0.010	0.011	0.012	0.012	0.012	0.013	0.013	0.014	0.014	0.013	0.013	0.013	0.013

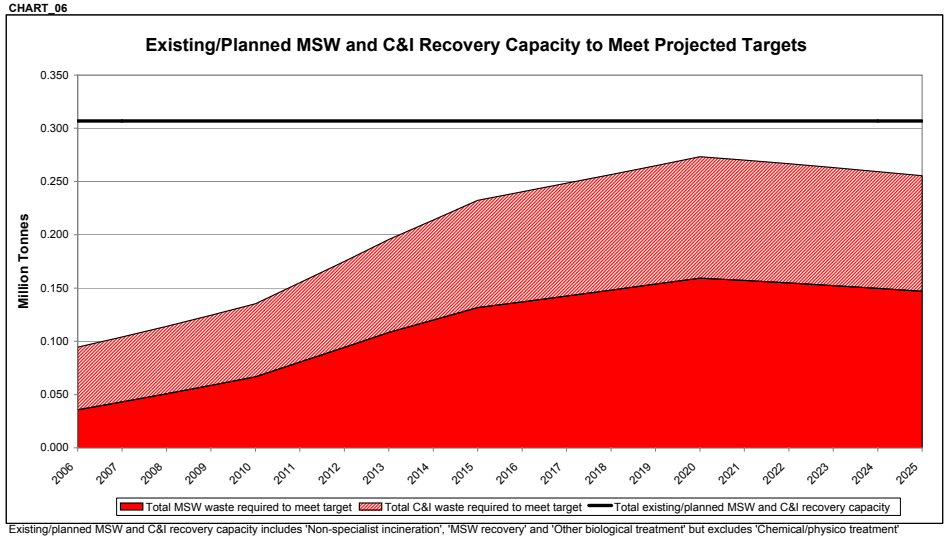
NOTE: This element of the model is redundant. There is currently no hazardous waste capacity figures to generate a chart of managed waste versus available capacity.

DATA_15: TOTAL HAZARDOUS WASTE RESIDUE FROM RECOVERY AND RECYCLING SENT TO HAZARDOUS LANDFILL (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Total hazardous waste recycling and recovery residue sent to hazardous landfill	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

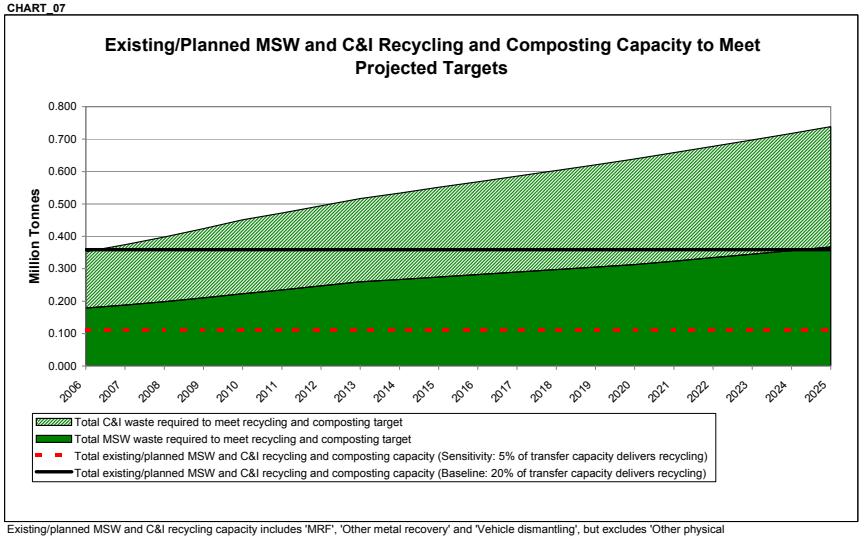
East Sussex

CHART_06



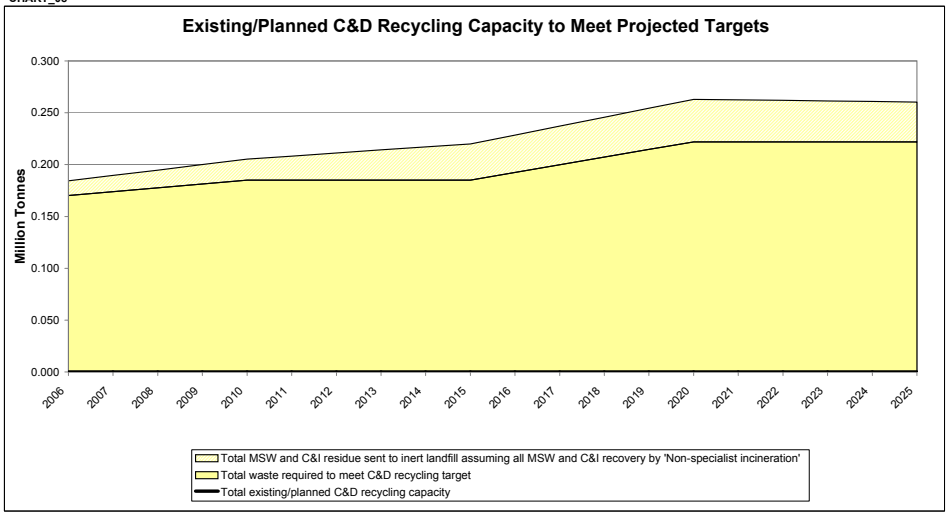
Existing/planned MSW and C&I recovery capacity includes 'Non-specialist incineration', 'MSW recovery' and 'Other biological treatment' but excludes 'Chemical/physico treatment'
NOTE: This capacity does not represent the quantity of material that is recovered.
NOTE: The original MEL model assumes that 'MSW recovery' capacity is incineration - but this is not made explicit.

CHART_07



Existing/planned MSW and C&I recycling capacity includes 'MRF', 'Other metal recovery' and 'Vehicle dismantling', but excludes 'Other physical treatment' (because this category includes CA sites)
NOTE: This capacity does not represent the quantity of material that is recycled and composted.

CHART_08



East Sussex

CHART_09

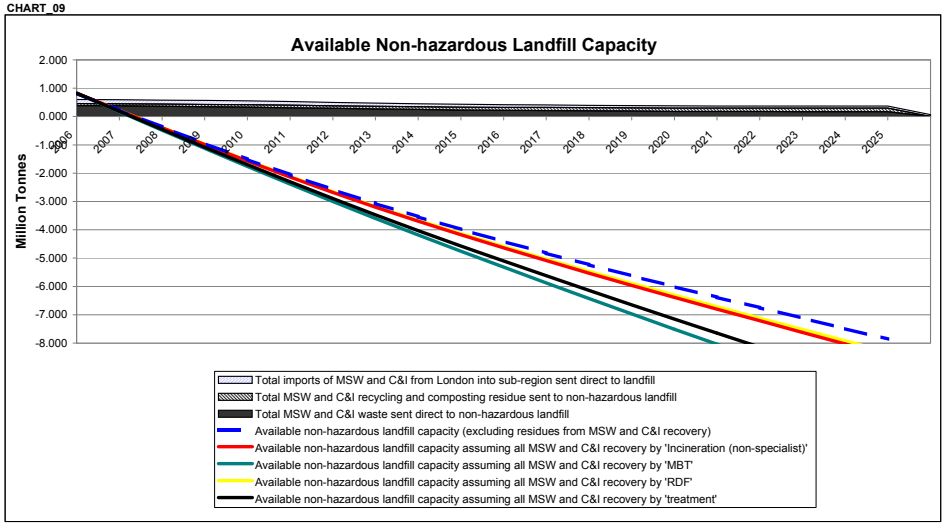
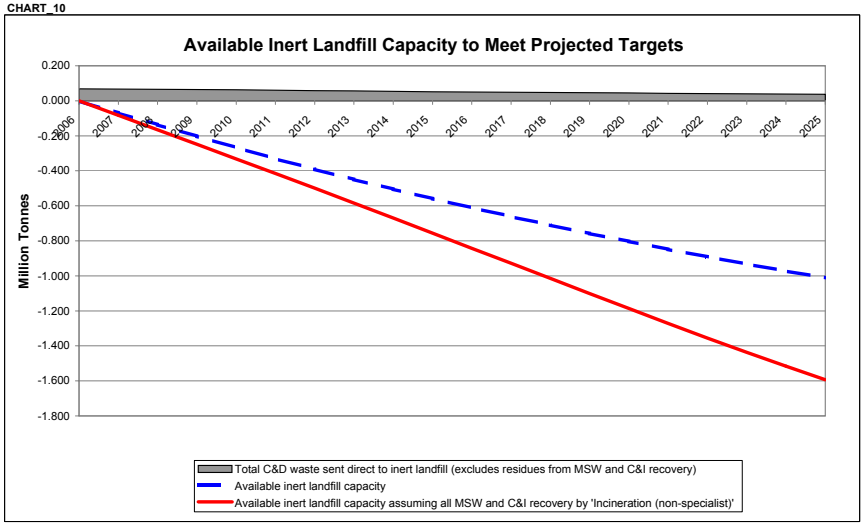


CHART_10



Hampshire

SUMMARY DATA AND RESULTS FOR HAMPSHIRE

MANAGED WASTE USED TO GENERATE RESULTS (Million Tonnes)	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	0.958	0.982	1.007	1.032	1.058	1.079	1.101	1.123	1.145	1.168	1.185	1.203	1.221	1.240	1.258	1.277	1.296	1.316	1.335	1.355
msw - imports from london that are sent direct to non-hazardous landfill	0.053	0.051	0.050	0.049	0.047	0.045	0.042	0.039	0.037	0.034	0.033	0.031	0.030	0.028	0.027	0.027	0.026	0.025	0.025	0.024
c&i	1.658	1.699	1.742	1.785	1.830	1.866	1.904	1.942	1.981	2.020	2.050	2.081	2.112	2.144	2.176	2.198	2.220	2.242	2.265	2.287
c&i - imports from london that are sent direct to non-hazardous landfill	0.091	0.089	0.087	0.084	0.082	0.077	0.073	0.068	0.064	0.059	0.057	0.054	0.052	0.049	0.047	0.046	0.045	0.043	0.042	0.041
c&d	2.148	2.148	2.148	2.148	2.148	2.148	2.148	2.148	2.148	2.148	2.148	2.148	2.148	2.148	2.148	2.148	2.148	2.148	2.148	2.148
hazardous	0.173	0.177	0.181	0.186	0.191	0.194	0.198	0.202	0.206	0.210	0.214	0.217	0.220	0.223	0.227	0.229	0.231	0.234	0.236	0.238

WASTE STREAM TONNAGES TO MEET TARGETS (Million Tonnes)		2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	LATS shortfall (how much extra is landfilled above LATS target)	*0.039*	*0.042*	*0.049*	*0.060*	*0.075*	*0.080*	*0.083*	*0.086*	*0.064*	*0.042*	*0.038*	*0.034*	*0.030*	*0.025*	*0.020*	*0.020*	*0.020*	*0.021*	*0.021*	*0.022*
	Recycling and composting target	0.340	0.368	0.401	0.439	0.481	0.513	0.545	0.577	0.594	0.612	0.630	0.649	0.667	0.686	0.705	0.729	0.753	0.778	0.803	0.829
	Recovery target	0.068	0.084	0.103	0.122	0.144	0.176	0.208	0.241	0.267	0.294	0.307	0.319	0.332	0.345	0.359	0.354	0.349	0.343	0.337	0.331
	Non-hazardous landfill	0.551	0.530	0.503	0.471	0.433	0.391	0.348	0.305	0.284	0.262	0.249	0.235	0.222	0.208	0.194	0.195	0.195	0.195	0.195	0.195
c&i	Recycling and composting target	0.696	0.748	0.801	0.857	0.915	0.952	0.990	1.029	1.069	1.111	1.148	1.186	1.225	1.265	1.306	1.341	1.376	1.413	1.449	1.487
	Recovery target	0.235	0.245	0.254	0.264	0.274	0.299	0.324	0.350	0.376	0.404	0.414	0.425	0.435	0.446	0.457	0.453	0.448	0.444	0.439	0.435
	Non-hazardous landfill	0.726	0.707	0.686	0.664	0.640	0.616	0.590	0.563	0.535	0.505	0.488	0.470	0.452	0.433	0.413	0.404	0.395	0.386	0.376	0.366
c&d	Recycling target	0.988	1.010	1.031	1.053	1.074	1.074	1.074	1.074	1.074	1.074	1.117	1.160	1.203	1.246	1.289	1.289	1.289	1.289	1.289	1.289
	Recovery target	0.760	0.748	0.735	0.722	0.709	0.722	0.735	0.748	0.760	0.773	0.739	0.705	0.670	0.636	0.601	0.610	0.619	0.627	0.636	0.644
	Inert landfill	0.400	0.391	0.382	0.374	0.365	0.352	0.339	0.327	0.314	0.301	0.292	0.284	0.275	0.266	0.258	0.249	0.241	0.232	0.223	0.215
hazardous	Hazardous waste	0.173	0.177	0.181	0.186	0.191	0.194	0.198	0.202	0.206	0.210	0.214	0.217	0.220	0.223	0.227	0.229	0.231	0.234	0.236	0.238

Note: If there is a LATS shortfall, denoted by a positive number, (ie insufficient allowance to landfill non-diverted waste) then the model assumes that this extra waste is recycled/composted and recovered at the same ratio as the regional targets for recycling/composting and recovery for that year.

EXISTING/PLANNED CAPACITY FOR RECYCLING, RECOVERY AND LANDFILLING AND TOTAL WASTE TONNAGES TO EACH DISPOSAL ROUTE (Million Tonnes)		2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
MSW and C&I recovery																					
	Total existing/planned MSW and C&I recovery capacity	1.768	1.768	1.768	1.768	1.768	1.768	1.768	1.768	1.768	1.768	1.768	1.768	1.768	1.768	1.768	1.768	1.768	1.768	1.768	1.768
	Surplus/deficit capacity	1.465	1.439	1.411	1.382	1.350	1.294	1.237	1.178	1.125	1.070	1.048	1.024	1.001	0.977	0.952	0.962	0.971	0.981	0.992	1.002
MSW and C&I recycling and composting																					
	Total existing/planned MSW and C&I recycling and composting capacity (Baseline: 20% of transfer capacity delivers recycling)	4.991	4.991	4.991	4.991	4.991	4.991	4.991	4.991	4.991	4.991	4.991	4.991	4.991	4.991	4.991	4.991	4.991	4.991	4.991	4.991
	Total existing/planned MSW and C&I recycling and composting capacity (Sensitivity: 5% of transfer capacity delivers recycling)	4.589	4.589	4.589	4.589	4.589	4.589	4.589	4.589	4.589	4.589	4.589	4.589	4.589	4.589	4.589	4.589	4.589	4.589	4.589	4.589
	Surplus/deficit capacity (Baseline: 20% of transfer capacity delivers recycling)	3.955	3.875	3.788	3.695	3.595	3.526	3.456	3.385	3.327	3.267	3.212	3.156	3.098	3.040	2.980	2.921	2.862	2.801	2.739	2.675
	Surplus/deficit capacity (Sensitivity: 5% of transfer capacity delivers recycling)	3.553	3.473	3.386	3.293	3.193	3.125	3.054	2.983	2.925	2.866	2.810	2.754	2.697	2.638	2.578	2.520	2.460	2.399	2.337	2.274
C&D recycling																					
	Total existing/planned C&D recycling capacity	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072
	Surplus/deficit capacity	-0.916	-0.938	-0.959	-0.981	-1.002	-1.002	-1.002	-1.002	-1.002	-1.002	-1.045	-1.088	-1.131	-1.174	-1.217	-1.217	-1.217	-1.217	-1.217	-1.217
C&D recovery																					
	REGIONAL total existing/planned C&D recovery capacity	1.794	1.710	1.627	1.544	1.460	1.439	1.418	1.398	1.377	1.356	1.325	1.293	1.262	1.231	1.199	1.220	1.241	1.262	1.283	1.304
	Surplus/deficit capacity	1.033	0.963	0.892	0.822	0.751	0.717	0.684	0.650	0.616	0.583	0.586	0.589	0.592	0.595	0.598	0.610	0.622	0.635	0.647	0.659
Hazardous waste recycling																					
	Total existing/planned hazardous waste recycling capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Surplus/deficit capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hazardous waste recovery																					
	Total existing/planned hazardous waste recovery capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Surplus/deficit capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Non-hazardous landfill																					
	Available non-hazardous landfill capacity (excluding residues from MSW and C&I recovery)	1.532	-0.143	-1.788	-3.398	-4.965	-6.484	-7.940	-9.331	-10.655	-11.930	-13.156	-14.361	-15.543	-16.703	-17.839	-18.951	-20.062	-21.171	-22.278	-23.383
	Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'Incineration (non-specialist)'	1.490	-0.231	-1.925	-3.588	-5.213	-6.795	-8.322	-9.792	-11.205	-12.577	-13.908	-15.220	-16.514	-17.789	-19.044	-20.279	-21.511	-22.739	-23.964	-25.185
	Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'MBT'	1.367	-0.487	-2.326	-4.146	-5.941	-7.708	-9.443	-11.147	-12.820	-14.475	-16.113	-17.743	-19.364	-20.976	-22.580	-24.173	-25.760	-27.339	-28.910	-30.473
	Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'RDF'	1.499	-0.213	-1.898	-3.550	-5.164	-6.733	-8.246	-9.700	-11.095	-12.448	-13.758	-15.048	-16.320	-17.572	-18.803	-20.013	-21.221	-22.425	-23.627	-24.825
	Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'treatment'	1.407	-0.405	-2.199	-3.968	-5.710	-7.417	-9.086	-10.716	-12.306	-13.871	-15.411	-16.940	-18.457	-19.962	-21.455	-22.934	-24.408	-25.875	-27.336	-28.791
Inert landfill																					
	Available inert landfill capacity	1.735	1.335	0.944	0.562	0.188	-0.177	-0.529	-0.869	-1.195	-1.509	-1.810	-2.102	-2.385	-2.660	-2.927	-3.184	-3.434	-3.674	-3.906	-4.130
	Available inert landfill capacity assuming all MSW and C&I recovery by 'Incineration (non-specialist)'	1.693	1.248	0.807	0.372	-0.060	-0.488	-0.912	-1.331	-1.746	-2.156	-2.561	-2.962	-3.357	-3.747	-4.132	-4.512	-4.882	-5.242	-5.592	-5.932
Hazardous landfill																					
	Available hazardous landfill capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Note: The model does not contain data for the management of hazardous waste.

DATA_01: ARISINGS AND GROWTH RATES OF MSW, C&I AND HAZARDOUS WASTE (Million Tonnes)		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	Arisings of MSW in baseline year																					
	(1) Forecast regional level growth rate of MSW - per year (%)	3.0%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%
	(1) Forecast regional level growth rate of MSW - cumulative (%)	106%	109%	111%	114%	117%	120%	122%	125%	127%	130%	133%	135%	137%	139%	141%	143%	145%	147%	149%	152%	154%
	Total arisings of MSW using regional growth forecasts	0.935	0.958	0.982	1.007	1.032	1.058	1.079	1.101	1.123	1.145	1.168	1.185	1.203	1.221	1.240	1.258	1.277	1.296	1.316	1.335	1.355
	(1) Forecast sub-regional growth rate of MSW - per year (%)	3.0%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%
	(1) Forecast sub-regional level growth rate of MSW - cumulative (%)	106%	109%	111%	114%	117%	120%	122%	125%	127%	130%	133%	135%	137%	139%	141%	143%	145%	147%	149%	152%	154%
	Total arisings of MSW using sub-regional growth forecasts	0.935	0.958	0.982	1.007	1.032	1.058	1.079	1.101	1.123	1.145	1.168	1.185	1.203	1.221	1.240	1.258	1.277	1.296	1.316	1.335	1.355
c&i	Arisings of C&I in baseline year																					
	(1) Forecast regional level growth rate of C&I - per year (%)	3.3%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.0%	1.0%	1.0%	1.0%	1.0%
	(1) Forecast regional level growth rate of C&I - cumulative (%)	110%	113%	116%	119%	122%	125%	127%	130%	132%	135%	138%	140%	142%	144%	146%	148%	150%	151%	153%	154%	156%
	Total arisings of C&I using regional growth forecasts	1.617	1.658	1.699	1.742	1.785	1.830	1.866	1.904	1.942	1.981	2.020	2.050	2.081	2.112	2.144	2.176	2.198	2.220	2.242	2.265	2.287
	(1) Forecast sub-regional level growth rate of C&I - per year (%)	3.3%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.0%	1.0%	1.0%	1.0%	1.0%
	(1) Forecast sub-regional level growth rate of C&I - cumulative (%)	110%	113%	116%	119%	122%	125%	127%	130%	132%	135%	138%	140%	142%	144%	146%	148%	150%	151%	153%	154%	156%
	Total arisings of C&I using sub-regional growth forecasts	1.617	1.658	1.699	1.742	1.785	1.830	1.866	1.904	1.942	1.981	2.020	2.050	2.081	2.112	2.144	2.176	2.198	2.220	2.242	2.265	2.287
hazardous	Arisings of hazardous waste in baseline year																					
	(2) Forecast regional level growth rate of hazardous waste - per year (%)	3.3%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.0%	1.0%	1.0%	1.0%	1.0%
	Forecast regional level growth rate of hazardous waste - cumulative (%)	107%	109%	112%	115%	118%	121%	123%	126%	128%	131%	133%	135%	137%	139%	141%	144%	145%	146%	148%	149%	151%
	Total arisings of hazardous waste	0.168	0.173	0.177	0.181	0.186	0.191	0.194	0.198	0.202	0.206	0.210	0.214	0.217	0.220	0.223	0.227	0.229	0.231	0.234	0.236	0.238
	(2) Forecast sub-regional level growth rate of hazardous waste - per year (%)	3.3%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.0%	1.0%	1.0%	1.0%	1.0%
	Forecast sub regional level growth rate of hazardous waste - cumulative (%)	107%	109%	112%	115%	118%	121%	123%	126%	128%	131%	133%	135%	137%	139%	141%	144%	145%	146%	148%	149%	151%
	Total arisings of hazardous waste	0.168	0.173	0.177	0.181	0.186	0.191	0.194	0.198	0.202	0.206	0.210	0.214	0.217	0.220	0.223	0.227	0.229	0.231	0.234	0.236	0.238
c&d	Total managed C&D in baseline year																					
	(3) Forecast regional-level growth rate of managed C&D - per year (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Forecast regional-level growth rate of managed C&D - cumulative (%)	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
	(3) Total managed of C&D for the sub-region	2.148	2.148	2.148	2.148	2.148	2.148	2.148	2.148	2.148	2.148	2.148	2.148	2.148	2.148	2.148	2.148	2.148	2.148	2.148	2.148	2.148

(1) Figures from SEERA updated waste capacity model by ERM in 2005.
(2) Baseline year of hazardous waste arisings is 2003 from EA Hazardous Waste Interrogator. www.environment-agency.gov.uk/apps/wastesurvey2/. ERM has assumed that growth in hazardous waste is equal to C&I waste.
(3) These data represent managed C&D waste in the sub-region, including all intra-regional and inter-regional movements. Growth is assumed to be zero from the orginal MEL study and updated modeted by ERM in 2005.
NOTE: C&D waste is not included in arisings because this was taken from survey data by Symonds 2001 which gave values for managed C&D waste.

Hampshire

Figure in blue represent data supplied by each sub-region for the new '2006 SEERA Capacity and Need Model'
Figures in orange represent managed waste that are used by the model to calculate results. These can be adjusted for different scenarios.

DATA_02: INTER REGIONAL MOVEMENTS OF MSW and C&I (Million Tonnes)		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw and c&i	Regional level imports of MSW and C&I waste into the SE region from London	1.76	1.716	1.672	1.628	1.584	1.54	1.454	1.368	1.282	1.196	1.11	1.064	1.018	0.972	0.926	0.88	0.86	0.84	0.82	0.8	0.78
	Proportion of regional MSW and C&I imports that go to the sub-region (%)	8.4%	8.4%	8.4%	8.4%	8.4%	8.4%	8.4%	8.4%	8.4%	8.4%	8.4%	8.4%	8.4%	8.4%	8.4%	8.4%	8.4%	8.4%	8.4%	8.4%	8.4%
(1)	Total imports of MSW and C&I from London into sub-region sent direct to landfill	0.148	0.144	0.140	0.137	0.133	0.129	0.122	0.115	0.108	0.100	0.093	0.089	0.086	0.082	0.078	0.074	0.072	0.071	0.069	0.067	0.066
msw	Proportion of total MSW and C&I imports that are MSW (%) - REGIONAL GROWTH FORECAST	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%
	Total imports of MSW into the sub-region from London - REGIONAL GROWTH FORECAST	0.054	0.053	0.051	0.050	0.049	0.047	0.045	0.042	0.039	0.037	0.034	0.033	0.031	0.030	0.028	0.027	0.027	0.026	0.025	0.025	0.024
	Proportion of total MSW and C&I imports that are MSW (%) - SUB-REGIONAL GROWTH FORECAST	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%
	Total imports of MSW into the sub-region from London - SUB-REGIONAL GROWTH FORECAST	0.054	0.053	0.051	0.050	0.049	0.047	0.045	0.042	0.039	0.037	0.034	0.033	0.031	0.030	0.028	0.027	0.027	0.026	0.025	0.025	0.024
c&i	Proportion of total MSW and C&I imports that are C&I (%) - REGIONAL GROWTH FORECAST	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%
	Total imports of C&I into the sub-region from London - REGIONAL GROWTH FORECAST	0.094	0.091	0.089	0.087	0.084	0.082	0.077	0.073	0.068	0.064	0.059	0.057	0.054	0.052	0.049	0.047	0.046	0.045	0.043	0.042	0.041
	Proportion of total MSW and C&I imports that are C&I (%) - SUB-REGIONAL GROWTH FORECAST	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%
	Total imports of C&I into the sub-region from London - SUB-REGIONAL GROWTH FORECAST	0.094	0.091	0.089	0.087	0.084	0.082	0.077	0.073	0.068	0.064	0.059	0.057	0.054	0.052	0.049	0.047	0.046	0.045	0.043	0.042	0.041

(1) Intra-regional and inter-regional movements have been excluded for MSW and C&I waste due to self-sufficiency requirements under PPS10, except for inter-regional movements from London into the sub-region. Apportionment from Policy W3 in the Plan – downloa
Note: Only a figure is available for total combined imports of MSW and C&I waste. ERM has assumed that imports of the seperate waste streams of MSW and C&I was split according to tonnage arisings of MSW and C&I in the sub-region.

DATA_03: MANAGED WASTE USED TO GENERATE RESULTS (Million Tonnes)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	0.935	0.958	0.982	1.007	1.032	1.058	1.079	1.101	1.123	1.145	1.168	1.185	1.203	1.221	1.240	1.258	1.277	1.296	1.316	1.335	1.355
msw - imports from london that are sent direct to non-hazardous landfill	0.054	0.053	0.051	0.050	0.049	0.047	0.045	0.042	0.039	0.037	0.034	0.033	0.031	0.030	0.028	0.027	0.027	0.026	0.025	0.025	0.024
c&i	1.617	1.658	1.699	1.742	1.785	1.830	1.866	1.904	1.942	1.981	2.020	2.050	2.081	2.112	2.144	2.176	2.198	2.220	2.242	2.265	2.287
c&I - imports from london that are sent direct to non-hazardous landfill	0.094	0.091	0.089	0.087	0.084	0.082	0.077	0.073	0.068	0.064	0.059	0.057	0.054	0.052	0.049	0.047	0.046	0.045	0.043	0.042	0.041
c&d	2.148	2.148	2.148	2.148	2.148	2.148	2.148	2.148	2.148	2.148	2.148	2.148	2.148	2.148	2.148	2.148	2.148	2.148	2.148	2.148	2.148
hazardous	0.168	0.173	0.177	0.181	0.186	0.191	0.194	0.198	0.202	0.206	0.210	0.214	0.217	0.220	0.223	0.227	0.229	0.231	0.234	0.236	0.238

DATA_04: TARGETS (% or Million Tonnes)		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	(1) landfill (Mt)	0.372	0.362	0.347	0.326	0.301	0.270	0.240	0.210	0.180	0.172	0.165	0.157	0.149	0.141	0.134	0.126	0.126	0.126	0.126	0.126	0.126
	recovered (%)	5	6.4	7.8	9.2	10.6	12	14.4	16.8	19.2	21.6	24	24.8	25.6	26.4	27.2	28	27.2	26.4	25.6	24.8	24
	recycled and composted (%)	30	32.0	34.0	36.0	38.0	40	42.0	44.0	46.0	48.0	50	51.0	52.0	53.0	54.0	55	56.0	57.0	58.0	59.0	60
c&i	recovered (%)	14	14.2	14.4	14.6	14.8	15	16.0	17.0	18.0	19.0	20	20.2	20.4	20.6	20.8	21	20.6	20.2	19.8	19.4	19
	recycled and composted (%)	40	42.0	44.0	46.0	48.0	50	51.0	52.0	53.0	54.0	55	56.0	57.0	58.0	59.0	60	61.0	62.0	63.0	64.0	65
c&d	recovered (%)	36	35.4	34.8	34.2	33.6	33	33.6	34.2	34.8	35.4	36	34.4	32.8	31.2	29.6	28	28.4	28.8	29.2	29.6	30
	recycled (%)	45	46.0	47.0	48.0	49.0	50	50.0	50.0	50.0	50.0	50	52.0	54.0	56.0	58.0	60	60.0	60.0	60.0	60.0	60
hazardous	landfill (%)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	recovered (%)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	recycled (%)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

(1) ERM has assumed that the LATS target allowance remains constant at the 2020 value for the years beyond 2020

DATA_05: WASTE STREAM TONNAGES TO MEET TARGETS (Million Tonnes)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025

This first section of DATA_03 calculates if there is a LATS shortfall or suplus in each year. If there is a LATS shortfall (ie insufficient allowance to landfill non-diverted waste) then the model assumes that this extra waste is recycled/composted and r

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	Total MSW to be recovered and recycled/composted to meet target	0.327	0.368	0.411	0.455	0.502	0.550	0.609	0.669	0.732	0.797	0.864	0.899	0.934	0.970	1.007	1.044	1.063	1.081	1.100	1.119	1.139
	Total MSW not-diverted by targets	0.608	0.590	0.572	0.552	0.530	0.508	0.470	0.431	0.391	0.348	0.304	0.287	0.270	0.252	0.233	0.214	0.215	0.215	0.216	0.216	0.217
	Percentage of MSW that is biodegradable (% by weight)	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68
	Total BMW not-diverted by targets	0.413	0.401	0.389	0.375	0.361	0.345	0.320	0.293	0.266	0.237	0.206	0.195	0.183	0.171	0.158	0.145	0.146	0.146	0.147	0.147	0.147
	LATS shortfall (how much extra is landfilled above LATS target)	0.041	0.039	0.042	0.049	0.060	0.075	0.080	0.083	0.086	0.064	0.042	0.038	0.034	0.030	0.025	0.020	0.020	0.020	0.021	0.021	0.022
	Ratio of 'recovered' to 'recycled/composted' for target (%)	14%	17%	19%	20%	22%	23%	26%	28%	29%	31%	32%	33%	33%	33%	33%	34%	33%	32%	31%	30%	29%
	Extra MSW 'recovery' needed due to LATS shortfall	*0.006*	*0.007*	*0.008*	*0.010*	*0.013*	*0.017*	*0.020*	*0.023*	*0.025*	*0.020*	*0.014*	*0.013*	*0.011*	*0.010*	*0.008*	*0.007*	*0.007*	*0.006*	*0.006*	*0.006*	*0.006*
	Extra MSW 'recycling/composting' needed due to LATS shortfall	*0.035*	*0.033*	*0.034*	*0.039*	*0.047*	*0.058*	*0.059*	*0.060*	*0.060*	*0.044*	*0.028*	*0.026*	*0.023*	*0.020*	*0.017*	*0.013*	*0.013*	*0.014*	*0.014*	*0.015*	*0.015*

The section below in DATA_03 shows the tonnages by waste to meet targets.

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	Recycling and composting target	0.316	0.340	0.368	0.401	0.439	0.481	0.513	0.545	0.577	0.594	0.612	0.630	0.649	0.667	0.686	0.705	0.729	0.753	0.778	0.803	0.829
	Recovery target	0.053	0.068	0.084	0.103	0.122	0.144	0.176	0.208	0.241	0.267	0.294	0.307	0.319	0.332	0.345	0.359	0.354	0.349	0.343	0.337	0.331
	Non-hazardous landfill	0.567	0.551	0.530	0.503	0.471	0.433	0.391	0.348	0.305	0.284	0.262	0.249	0.235	0.222	0.208	0.194	0.195	0.195	0.195	0.195	0.195
	CHECK COUNTER (should be zero)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
c&i	Recycling and composting target	0.647	0.696	0.748	0.801	0.857	0.915	0.952	0.990	1.029	1.069	1.111	1.148	1.186	1.225	1.265	1.306	1.341	1.376	1.413	1.449	1.487
	Recovery target	0.226	0.235	0.245	0.254	0.264	0.274	0.299	0.324	0.350	0.376	0.404	0.414	0.425	0.435	0.446	0.457	0.453	0.448	0.444	0.439	0.435
	Non-hazardous landfill	0.744	0.726	0.707	0.686	0.664	0.640	0.616	0.590	0.563	0.535	0.505	0.488	0.470	0.452	0.433	0.413	0.404	0.395	0.386	0.376	0.366
	CHECK COUNTER (should be zero)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
c&d	Recycling target	0.967	0.988	1.010	1.031	1.053	1.074	1.074	1.074	1.074	1.074	1.074	1.117	1.160	1.203	1.246	1.289	1.289	1.289	1.289	1.289	1.289
	Recovery target	0.773	0.760	0.748	0.735	0.722	0.709	0.722	0.735	0.748	0.760	0.773	0.739	0.705	0.670	0.636	0.601	0.610	0.619	0.627	0.636	0.644
	Inert landfill	0.408	0.400	0.391	0.382	0.374	0.365	0.352	0.339	0.327	0.314	0.301	0.292	0.284	0.275	0.266	0.258	0.249	0.241	0.232	0.223	0.215
	CHECK COUNTER (should be zero)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
hazardous	Hazardous waste	0.168	0.173	0.177	0.181	0.186	0.191	0.194	0.198	0.202	0.206	0.210	0.214	0.217	0.220	0.223	0.227	0.229	0.231	0.234	0.236	0.238

DATA_06: TOTAL WASTE TONNAGES TO MEET TARGETS (Million Tonnes)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
MSW and C&I recycling and composting target	0.963	1.036	1.116	1.203	1.296	1.396	1.464	1.534	1.606	1.664	1.723	1.779	1.835	1.892	1.951	2.011	2.069	2.129	2.190	2.252	2.315
C&D recycling target	0.967	0.988	1.010	1.031	1.053	1.074	1.074	1.074	1.074	1.074	1.074	1.117	1.160	1.203	1.246	1.289	1.289	1.289	1.289	1.289	1.289
MSW and C&I recovery target	0.279	0.303	0.329	0.357	0.387	0.419	0.474	0.532	0.590	0.644	0.698	0.721	0.744	0.767	0.791	0.816	0.807	0.797	0.787	0.777	0.766
C&D recovery target	0.773	0.760	0.748	0.735	0.722	0.709	0.722	0.735	0.748	0.760	0.773	0.739	0.705	0.670	0.636	0.601	0.610	0.619	0.627	0.636	0.644
Non-hazardous landfill	1.311	1.277	1.236	1.189	1.135	1.073	1.007	0.938	0.868	0.818	0.767	0.737	0.706	0.674	0.641	0.608	0.599	0.590	0.581	0.571	0.561
Inert landfill	0.408	0.400	0.391	0.382	0.374	0.365	0.352	0.339	0.327	0.314	0.301	0.292	0.284	0.275	0.266	0.258	0.249	0.241	0.232	0.223	0.215
Hazardous waste	0.168	0.173	0.177	0.181	0.186	0.191	0.194	0.198	0.202	0.206	0.210	0.214	0.217	0.220	0.223	0.227	0.229	0.231	0.234	0.236	0.238

Hampshire

CHART_01

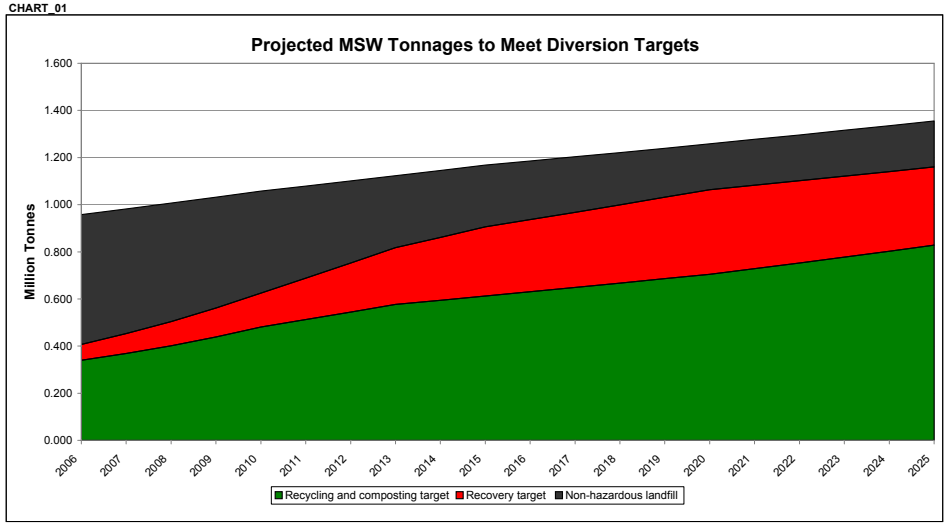
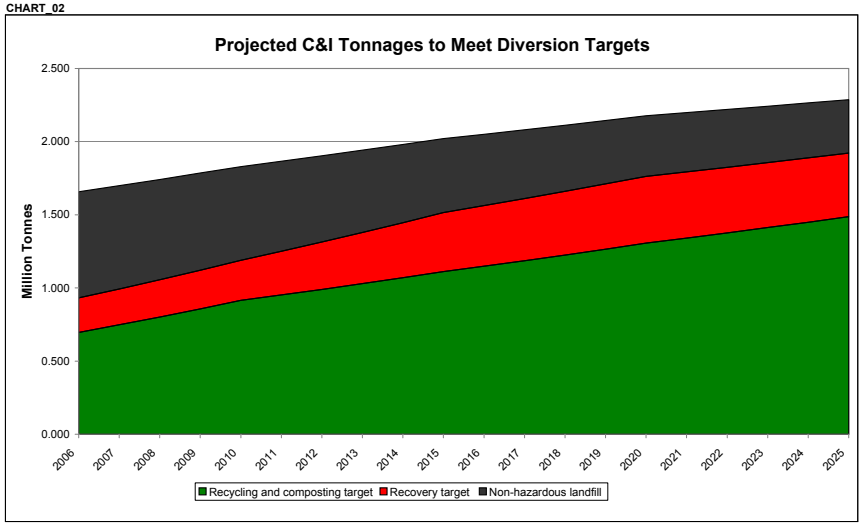


CHART_02



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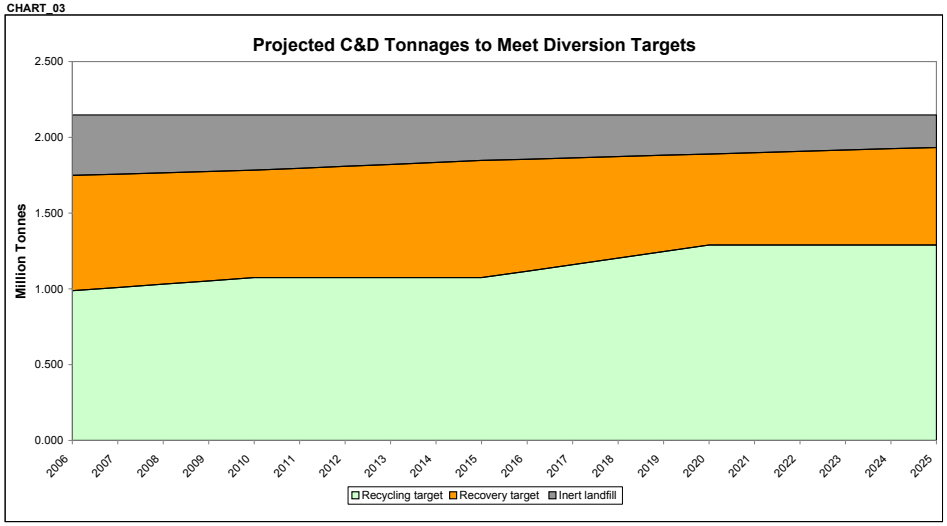

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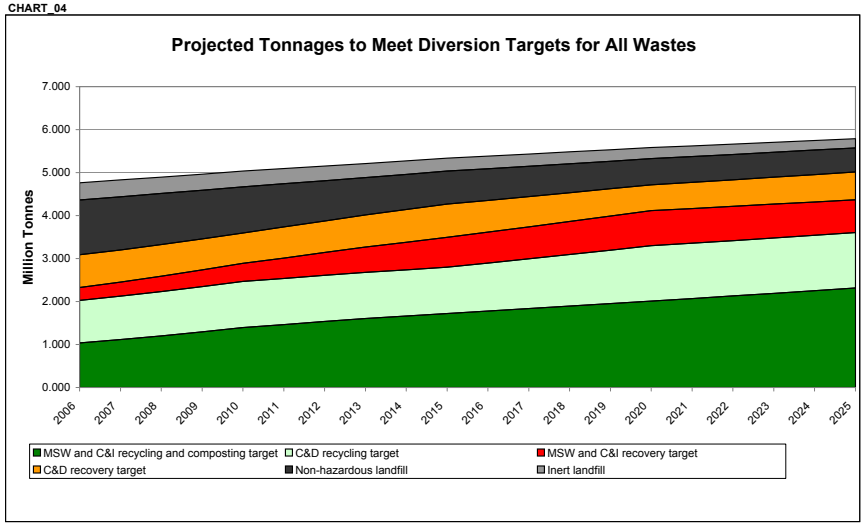
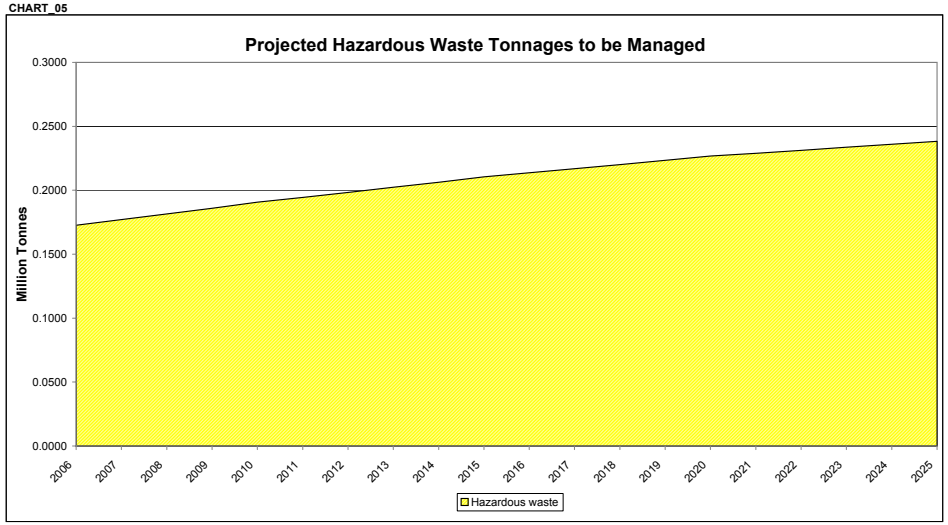


Hampshire

CHART_05



DATA_07: EXISTING/PLANNED CAPACITY FOR RECYCLING, RECOVERY AND LANDFILLING AND TOTAL WASTE TONNAGES TO EACH DISPOSAL ROUTE (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
MSW and C&I recovery																					
MSW and C&I incineration (non-specialist)	0.481	0.481	0.481	0.481	0.481	0.481	0.481	0.481	0.481	0.481	0.481	0.481	0.481	0.481	0.481	0.481	0.481	0.481	0.481	0.481	0.481
MSW and C&I treatment	1.287	1.287	1.287	1.287	1.287	1.287	1.287	1.287	1.287	1.287	1.287	1.287	1.287	1.287	1.287	1.287	1.287	1.287	1.287	1.287	1.287
Total existing/planned MSW and C&I recovery capacity	1.768	1.768	1.768	1.768	1.768	1.768	1.768	1.768	1.768	1.768	1.768	1.768	1.768	1.768	1.768	1.768	1.768	1.768	1.768	1.768	1.768
Total MSW waste required to meet target	0.053	0.068	0.084	0.103	0.122	0.144	0.176	0.208	0.241	0.267	0.294	0.307	0.319	0.332	0.345	0.359	0.354	0.349	0.343	0.337	0.331
Total C&I waste required to meet target	0.226	0.235	0.245	0.254	0.264	0.274	0.299	0.324	0.350	0.376	0.404	0.414	0.425	0.435	0.446	0.457	0.453	0.448	0.444	0.439	0.435
Surplus/deficit capacity	1.489	1.465	1.439	1.411	1.382	1.350	1.294	1.237	1.178	1.125	1.070	1.048	1.024	1.001	0.977	0.952	0.962	0.971	0.981	0.992	1.002
MSW and C&I recycling and composting																					
MSW and C&I recycling	4.245	4.245	4.245	4.245	4.245	4.245	4.245	4.245	4.245	4.245	4.245	4.245	4.245	4.245	4.245	4.245	4.245	4.245	4.245	4.245	4.245
MSW and C&I transfer	2.679	2.679	2.679	2.679	2.679	2.679	2.679	2.679	2.679	2.679	2.679	2.679	2.679	2.679	2.679	2.679	2.679	2.679	2.679	2.679	2.679
Total existing/planned composting capacity	0.210	0.210	0.210	0.210	0.210	0.210	0.210	0.210	0.210	0.210	0.210	0.210	0.210	0.210	0.210	0.210	0.210	0.210	0.210	0.210	0.210
(1) Total existing/planned MSW and C&I recycling and composting capacity (Baseline: 20% of transfer capacity delivers recycling)	4.991	4.991	4.991	4.991	4.991	4.991	4.991	4.991	4.991	4.991	4.991	4.991	4.991	4.991	4.991	4.991	4.991	4.991	4.991	4.991	4.991
(2) Total existing/planned MSW and C&I recycling and composting capacity (Sensitivity: 5% of transfer capacity delivers recycling)	4.589	4.589	4.589	4.589	4.589	4.589	4.589	4.589	4.589	4.589	4.589	4.589	4.589	4.589	4.589	4.589	4.589	4.589	4.589	4.589	4.589
Total MSW waste required to meet recycling and composting target	0.316	0.340	0.368	0.401	0.439	0.481	0.513	0.545	0.577	0.594	0.612	0.630	0.649	0.667	0.686	0.705	0.729	0.753	0.778	0.803	0.829
Total C&I waste required to meet recycling and composting target	0.647	0.696	0.748	0.801	0.857	0.915	0.952	0.990	1.029	1.069	1.111	1.148	1.186	1.225	1.265	1.306	1.341	1.376	1.413	1.449	1.487
Surplus/deficit capacity (Baseline: 20% of transfer capacity delivers recycling)	4.028	3.955	3.875	3.788	3.695	3.595	3.526	3.456	3.385	3.327	3.267	3.212	3.156	3.098	3.040	2.980	2.921	2.862	2.801	2.739	2.675
Surplus/deficit capacity (Sensitivity: 5% of transfer capacity delivers recycling)	3.626	3.553	3.473	3.386	3.293	3.193	3.125	3.054	2.983	2.925	2.866	2.810	2.754	2.697	2.638	2.578	2.520	2.460	2.399	2.337	2.274
C&D recycling																					
Total existing/planned C&D recycling capacity	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072
Total waste required to meet C&D recycling target	0.967	0.988	1.010	1.031	1.053	1.074	1.074	1.074	1.074	1.074	1.074	1.117	1.160	1.203	1.246	1.289	1.289	1.289	1.289	1.289	1.289
Surplus/deficit capacity	-0.895	-0.916	-0.938	-0.959	-0.981	-1.002	-1.002	-1.002	-1.002	-1.002	-1.002	-1.045	-1.088	-1.131	-1.174	-1.217	-1.217	-1.217	-1.217	-1.217	-1.217
C&D recovery																					
(3) REGIONAL total existing/planned C&D recovery capacity	1.877	1.794	1.710	1.627	1.544	1.460	1.439	1.418	1.398	1.377	1.356	1.325	1.293	1.262	1.231	1.199	1.220	1.241	1.262	1.283	1.304
Sub-regional total waste required to meet C&D recovery target	0.773	0.760	0.748	0.735	0.722	0.709	0.722	0.735	0.748	0.760	0.773	0.739	0.705	0.670	0.636	0.601	0.610	0.619	0.627	0.636	0.644
Surplus/deficit capacity	1.104	1.033	0.963	0.892	0.822	0.751	0.717	0.684	0.650	0.616	0.583	0.586	0.589	0.592	0.595	0.598	0.610	0.622	0.635	0.647	0.659
Hazardous waste recycling																					
Total existing/planned hazardous waste recycling capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total hazardous waste to be recycled	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Surplus/deficit capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hazardous waste recovery																					
Total existing/planned hazardous waste recovery capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total hazardous waste to be recovered	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Surplus/deficit capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Non-hazardous landfill																					
Available non-hazardous landfill capacity (excluding residues from MSW and C&I recovery)	3.084	1.532	-0.143	-1.788	-3.398	-4.965	-6.484	-7.940	-9.331	-10.655	-11.930	-13.156	-14.361	-15.543	-16.703	-17.839	-18.951	-20.062	-21.171	-22.278	-23.383
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'Incineration (non-specialist)'	3.084	1.490	-0.231	-1.925	-3.588	-5.213	-6.795	-8.322	-9.792	-11.205	-12.577	-13.908	-15.220	-16.514	-17.789	-19.044	-20.279	-21.511	-22.739	-23.964	-25.185
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'MBT'	3.084	1.367	-0.487	-2.326	-4.146	-5.941	-7.708	-9.443	-11.147	-12.820	-14.475	-16.113	-17.743	-19.364	-20.976	-22.580	-24.173	-25.760	-27.339	-28.910	-30.473
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'RDF'	3.084	1.499	-0.213	-1.898	-3.550	-5.164	-6.733	-8.246	-9.700	-11.095	-12.448	-13.758	-15.048	-16.320	-17.572	-18.803	-20.013	-21.221	-22.425	-23.627	-24.825
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'treatment'	3.084	1.407	-0.405	-2.199	-3.968	-5.710	-7.417	-9.086	-10.716	-12.306	-13.871	-15.411	-16.940	-18.457	-19.962	-21.455	-22.934	-24.408	-25.875	-27.336	-28.791
Total MSW and C&I waste sent direct to non-hazardous landfill	1.311	1.277	1.236	1.189	1.135	1.073	1.007	0.938	0.868	0.818	0.767	0.737	0.706	0.674	0.641	0.608	0.599	0.590	0.581	0.571	0.561
Inert landfill																					
Available inert landfill capacity	2.143	1.735	1.335	0.944	0.562	0.188	-0.177	-0.529	-0.869	-1.195	-1.509	-1.810	-2.102	-2.385	-2.660	-2.927	-3.184	-3.434	-3.674	-3.906	-4.130
Available inert landfill capacity assuming all MSW and C&I recovery by 'Incineration (non-specialist)'	2.143	1.693	1.248	0.807	0.372	-0.060	-0.488	-0.912	-1.331	-1.746	-2.156	-2.561	-2.962	-3.357	-3.747	-4.132	-4.512	-4.882	-5.242	-5.592	-5.932
Total C&D waste sent direct to inert landfill (excludes residues from MSW and C&I recovery)	0.408	0.400	0.391	0.382	0.374	0.365	0.352	0.339	0.327	0.314	0.301	0.292	0.284	0.275	0.266	0.258	0.249	0.241	0.232	0.223	0.215
Hazardous landfill																					
Available hazardous landfill capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total hazardous waste sent direct to hazardous landfill	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Other																					
Metal/ELV facility	1.040	1.040	1.040	1.040	1.040	1.040	1.040	1.040	1.040	1.040	1.040	1.040	1.040	1.040	1.040	1.040	1.040	1.040	1.040	1.040	1.040
Ignored	1.520	1.520	1.520	1.520	1.520	1.520	1.520	1.520	1.520	1.520	1.520	1.520	1.520	1.520	1.520	1.520	1.520	1.520	1.520	1.520	1.520
Closed	1.164	1.164	1.164	1.164	1.164	1.164	1.164	1.164	1.164	1.164	1.164	1.164	1.164	1.164	1.164	1.164	1.164	1.164	1.164	1.164	1.164

(1) ERM has assumed that 20% of the total "transfer' capacity will deliver recycling capacity
(2) ERM has assumed that 5% of the total "transfer' capacity will deliver recycling capacity
(3) Data for C&D recovery for landfill cover for the SE Region were sourced from the original MEL model, which sourced the data from Symonds (2001)
Landfill capacity data for 2005 were adapted from *Table R* in the ERM data template for each sub-region

Hampshire

DATA_08: RESIDUE RATES (%)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Recovery residues (% by weight)																					
MSW and C&I incineration (non-specialist) - bottom ash	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
MSW and C&I incineration (non-specialist) - fly ash	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
MSW and C&I to MBT	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59
MSW and C&I to RDF	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
MSW and C&I treatment - non-hazardous	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45
MSW and C&I treatment - hazardous	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Hazardous waste recovery	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Recycling residues (% by weight)																					
MSW and C&I recycling	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
MSW and C&I transfer	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
MSW and C&I composting	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
C&D recycling	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Hazardous waste recycling	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Other																					
Metal/ELV facility	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Ignored	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Closed	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Note: All residues are calculated on the amount of waste arising not on the maount of capacity available. This is complaince with the self-sufficiency requirements of PPS10.

DATA_09: TOTAL RESIDUE (Million Tonnes)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Recovery residues (of waste managed):																					
MSW and C&I incineration (non-specialist) - bottom ash	0.084	0.091	0.099	0.107	0.116	0.126	0.142	0.159	0.177	0.193	0.209	0.216	0.223	0.230	0.237	0.245	0.242	0.239	0.236	0.233	0.230
MSW and C&I incineration (non-specialist) - fly ash	0.008	0.009	0.010	0.011	0.012	0.013	0.014	0.016	0.018	0.019	0.021	0.022	0.022	0.023	0.024	0.024	0.024	0.024	0.024	0.023	0.023
MSW and C&I to MBT	0.165	0.179	0.194	0.211	0.228	0.247	0.280	0.314	0.348	0.380	0.412	0.425	0.439	0.453	0.467	0.481	0.476	0.470	0.464	0.458	0.452
MSW and C&I to RDF	0.033	0.036	0.039	0.043	0.046	0.050	0.057	0.064	0.071	0.077	0.084	0.086	0.089	0.092	0.095	0.098	0.097	0.096	0.094	0.093	0.092
MSW and C&I treatment - non-hazardous	0.126	0.136	0.148	0.161	0.174	0.188	0.213	0.239	0.266	0.290	0.314	0.324	0.335	0.345	0.356	0.367	0.363	0.359	0.354	0.350	0.345
MSW and C&I treatment - hazardous	0.014	0.015	0.016	0.018	0.019	0.021	0.024	0.027	0.030	0.032	0.035	0.036	0.037	0.038	0.040	0.041	0.040	0.040	0.039	0.039	0.038
Hazardous waste recovery	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Recycling residues (of waste managed):																					
MSW and C&I recycling and composting	0.144	0.155	0.167	0.180	0.194	0.209	0.220	0.230	0.241	0.250	0.259	0.267	0.275	0.284	0.293	0.302	0.310	0.319	0.329	0.338	0.347
C&D recycling	0.097	0.099	0.101	0.103	0.105	0.107	0.107	0.107	0.107	0.107	0.107	0.112	0.116	0.120	0.125	0.129	0.129	0.129	0.129	0.129	0.129
Hazardous waste recycling	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Note: All residues are calculated on the amount of waste arising not on the maount of capacity available. This is complaince with the self-sufficiency requirements of PPS10.

DATA_10: TOTAL MSW AND C&I RESIDUE FROM RECYCLING SENT TO NON-HAZARDOUS LANDFILL (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Total MSW and C&I recycling and composting residue sent to non-hazardous landfill	0.241	0.254	0.268	0.283	0.300	0.317	0.327	0.338	0.348	0.357	0.366	0.378	0.391	0.404	0.417	0.430	0.439	0.448	0.457	0.467	0.476

DATA_11: TOTAL MSW AND C&I RESIDUE FROM RECOVERY SENT TO NON-HAZARDOUS LANDFILL AND C&D RECYCLING (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
SCENARIO 1 - Assumes all recovery is by 'Non-specialist incineration' (based on total recovery capacity)																					
(1) Total MSW and C&I residue sent to non-hazardous landfill assuming all MSW and C&I recovery by 'Non-specialist incineration'	0.042	0.045	0.049	0.054	0.058	0.063	0.071	0.080	0.089	0.097	0.105	0.108	0.112	0.115	0.119	0.122	0.121	0.120	0.118	0.117	0.115
(1) Total MSW and C&I residue sent to inert landfill assuming all MSW and C&I recovery by 'Non-specialist incineration'	0.042	0.045	0.049	0.054	0.058	0.063	0.071	0.080	0.089	0.097	0.105	0.108	0.112	0.115	0.119	0.122	0.121	0.120	0.118	0.117	0.115
SCENARIO 2 - Assumes all recovery is by 'MBT' (based on total recovery capacity)																					
Total MSW and C&I residue sent to non-hazardous landfill	0.165	0.179	0.194	0.211	0.228	0.247	0.280	0.314	0.348	0.380	0.412	0.425	0.439	0.453	0.467	0.481	0.476	0.470	0.464	0.458	0.452
SCENARIO 3 - Assumes all recovery is by 'RDF' (based on total recovery capacity)																					
Total MSW and C&I residue sent to non-hazardous landfill	0.033	0.036	0.039	0.043	0.046	0.050	0.057	0.064	0.071	0.077	0.084	0.086	0.089	0.092	0.095	0.098	0.097	0.096	0.094	0.093	0.092
SCENARIO 4 - Assumes all recovery is by 'treatment' (based on total recovery capacity)																					
(2) Total MSW and C&I residue sent to non-hazardous landfill	0.126	0.136	0.148	0.161	0.174	0.188	0.213	0.239	0.266	0.290	0.314	0.324	0.335	0.345	0.356	0.367	0.363	0.359	0.354	0.350	0.345

(1) It was assumed that 50% of residue from 'non-specialist incineration' is sent to non-hazardous landfill and 50% is sent to inert landfill. In the original model assumptions developed MEL 50% was assumed to go to C&D recycling, rather than to inert landfi

DATA_12: TONNAGES OF C&D REUSED ON NON-HAZARDOUS AND INERT LANDFILL (Million Tonnes)

(1) C&D reused on landfill sites	39 %
(1) C&D reused on exempt sites	61 %
(1) C&D reused on landfill sites sent to 'non-haz landfill'	30 %
(1) C&D reused on landfill sites sent to 'inert landfill'	70 %

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
c&d	Total C&D reused on non-hazardous landfill	0.090	0.088	0.087	0.085	0.084	0.082	0.084	0.085	0.087	0.088	0.090	0.086	0.082	0.078	0.074	0.070	0.071	0.072	0.073	0.074	0.075
	Total reused C&D on inert landfill	0.210	0.206	0.203	0.199	0.196	0.192	0.196	0.199	0.203	0.206	0.210	0.201	0.191	0.182	0.173	0.163	0.166	0.168	0.170	0.173	0.175

(1) C&D reuse rates based on original model assumptions developed MEL
NOTE: C&D reuse on inert and non-hazardous landfill is not included within the charts because it has been assumed that data supplied by each sub-region has accounted for C&D reuse as an engineering material.

DATA_13: TOTAL MSW AND C&I RESIDUE FROM RECYCLING SENT TO HAZARDOUS LANDFILL (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Total MSW and C&I recycling and composting residue sent to hazardous landfill	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

DATA_14: TOTAL MSW AND C&I RESIDUE FROM RECOVERY SENT TO HAZARDOUS LANDFILL (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
SCENARIO 1 - Assumes all recovery is by 'Non-specialist incineration' (based on total recovery capacity)																					
Total MSW and C&I residue sent to hazardous landfill assuming all MSW and C&I recovery by 'Non-specialist incineration'	0.008	0.009	0.010	0.011	0.012	0.013	0.014	0.016	0.018	0.019	0.021	0.022	0.022	0.023	0.024	0.024	0.024	0.024	0.024	0.023	0.023
SCENARIO 2 - Assumes all recovery is by 'MBT' (based on total recovery capacity)																					
Total MSW and C&I residue sent to hazardous landfill	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SCENARIO 3 - Assumes all recovery is by 'RDF' (based on total recovery capacity)																					
Total MSW and C&I residue sent to hazardous landfill	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SCENARIO 4 - Assumes all recovery is by 'treatment' (based on total recovery capacity)																					
Total MSW and C&I residue sent to hazardous landfill	0.014	0.015	0.016	0.018	0.019	0.021	0.024	0.027	0.030	0.032	0.035	0.036	0.037	0.038	0.040	0.041	0.040	0.040	0.039	0.039	0.038

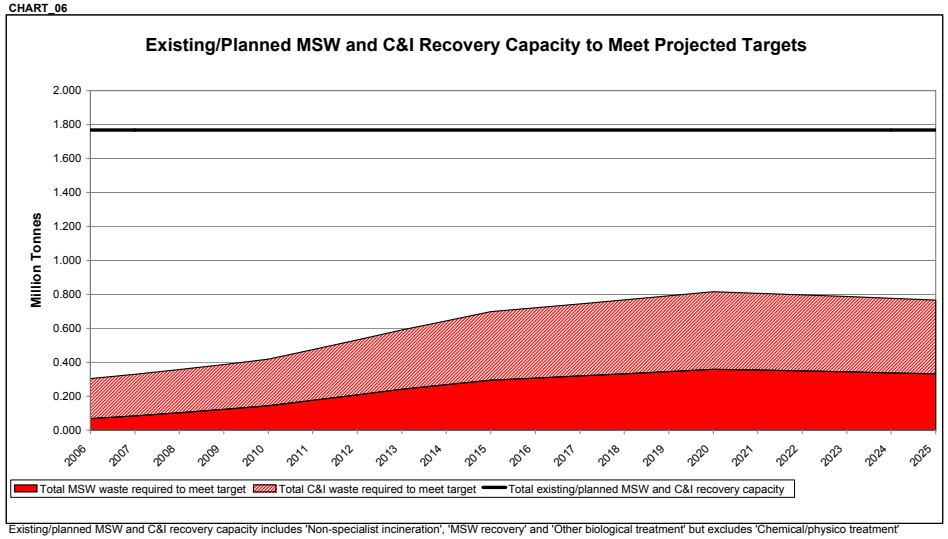
NOTE: This element of the model is redundant. There is currently no hazardous waste capacity figures to generate a chart of managed waste versus available capacity.

DATA_15: TOTAL HAZARDOUS WASTE RESIDUE FROM RECOVERY AND RECYCLING SENT TO HAZARDOUS LANDFILL (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Total hazardous waste recycling and recovery residue sent to hazardous landfill	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

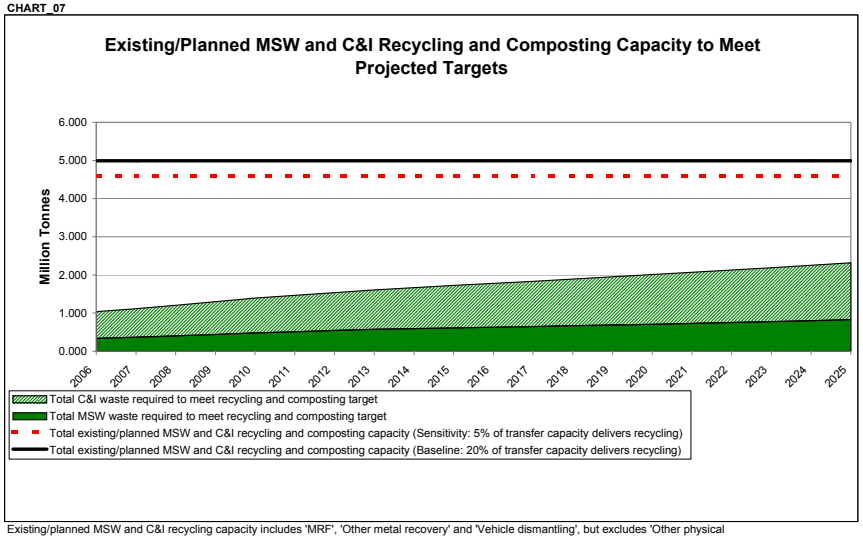
Hampshire

CHART_06



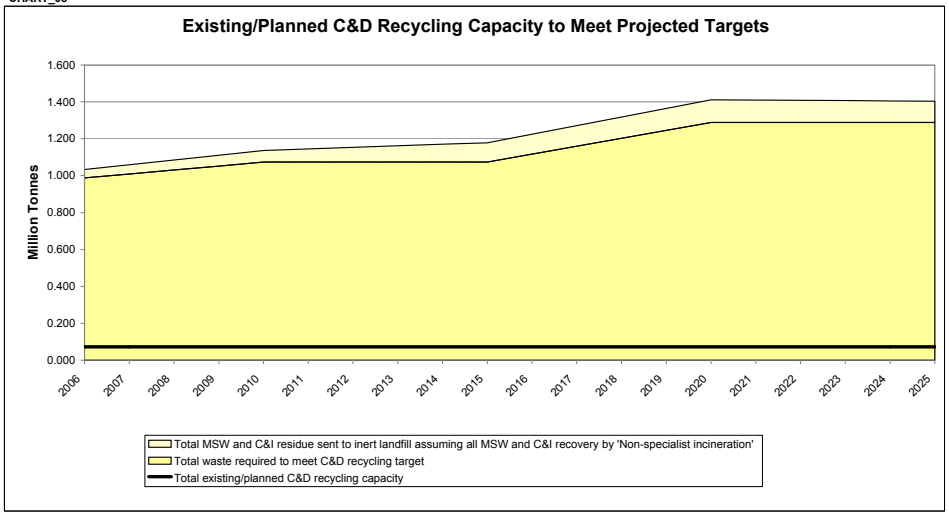
Existing/planned MSW and C&I recovery capacity includes 'Non-specialist incineration', 'MSW recovery' and 'Other biological treatment' but excludes 'Chemical/physico treatment'
NOTE: This capacity does not represent the quantity of material that is recovered.
NOTE: The original MEL model assumes that 'MSW recovery' capacity is incineration - but this is not made explicit.

CHART_07



Existing/planned MSW and C&I recycling capacity includes 'MRF', 'Other metal recovery' and 'Vehicle dismantling', but excludes 'Other physical treatment' (because this category includes CA sites)
NOTE: This capacity does not represent the quantity of material that is recycled and composted.

CHART_08



Hampshire

CHART_09

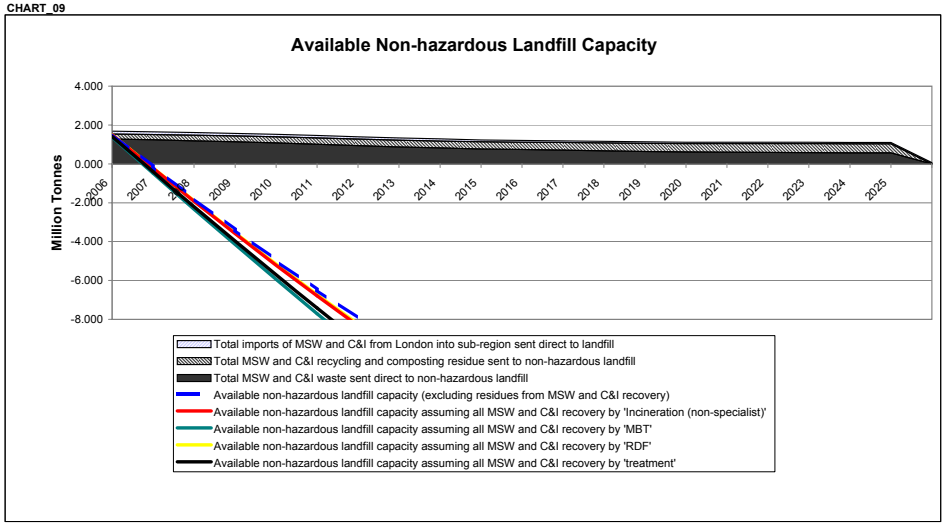
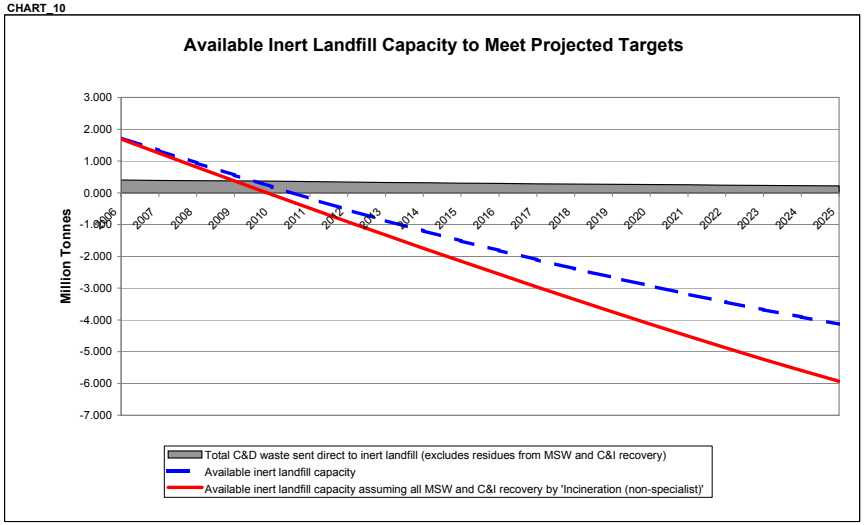


CHART_10



Isle of Wight

SUMMARY DATA AND RESULTS FOR ISLE OF WIGHT

MANAGED WASTE USED TO GENERATE RESULTS (Million Tonnes)	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	0.090	0.092	0.094	0.097	0.099	0.101	0.103	0.105	0.107	0.110	0.111	0.113	0.115	0.116	0.118	0.120	0.122	0.123	0.125	0.127
msw - imports from london that are sent direct to non-hazardous landfill	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
c&i	0.137	0.140	0.144	0.147	0.151	0.154	0.157	0.160	0.164	0.167	0.169	0.172	0.174	0.177	0.180	0.181	0.183	0.185	0.187	0.189
c&i - imports from london that are sent direct to non-hazardous landfill	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
c&d	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171
hazardous	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004

WASTE STREAM TONNAGES TO MEET TARGETS (Million Tonnes)		2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	LATS shortfall (how much extra is landfilled above LATS target)	0.003	0.003	0.002	0.002	0.002	0.003	0.004	0.005	0.003	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Recycling and composting target	0.031	0.034	0.036	0.039	0.041	0.045	0.048	0.052	0.054	0.055	0.057	0.059	0.061	0.063	0.065	0.067	0.069	0.072	0.074	0.076
	Recovery target	0.006	0.008	0.009	0.011	0.012	0.015	0.018	0.022	0.024	0.027	0.028	0.029	0.030	0.032	0.033	0.033	0.032	0.032	0.031	0.031
	Non-hazardous landfill	0.052	0.051	0.049	0.048	0.045	0.041	0.036	0.032	0.030	0.028	0.026	0.025	0.023	0.022	0.020	0.020	0.020	0.020	0.020	0.020
c&i	Recycling and composting target	0.057	0.062	0.066	0.071	0.076	0.079	0.082	0.085	0.088	0.092	0.095	0.098	0.101	0.104	0.108	0.111	0.114	0.117	0.120	0.123
	Recovery target	0.019	0.020	0.021	0.022	0.023	0.025	0.027	0.029	0.031	0.033	0.034	0.035	0.036	0.037	0.038	0.037	0.037	0.037	0.036	0.036
	Non-hazardous landfill	0.060	0.058	0.057	0.055	0.053	0.051	0.049	0.046	0.044	0.042	0.040	0.039	0.037	0.036	0.034	0.033	0.033	0.032	0.031	0.030
c&d	Recycling target	0.078	0.080	0.082	0.084	0.085	0.085	0.085	0.085	0.085	0.085	0.089	0.092	0.096	0.099	0.102	0.102	0.102	0.102	0.102	0.102
	Recovery target	0.060	0.059	0.058	0.057	0.056	0.057	0.058	0.059	0.060	0.061	0.059	0.056	0.053	0.051	0.048	0.048	0.049	0.050	0.051	0.051
	Inert landfill	0.032	0.031	0.030	0.030	0.029	0.028	0.027	0.026	0.025	0.024	0.023	0.023	0.022	0.021	0.020	0.020	0.019	0.018	0.018	0.017
hazardous	Hazardous waste	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004

Note: If there is a LATS shortfall, denoted by a positive number, (ie insufficient allowance to landfill non-diverted waste) then the model assumes that this extra waste is recycled/composted and recovered at the same ratio as the regional targets for recycling/composting and recovery for that year.

EXISTING/PLANNED CAPACITY FOR RECYCLING, RECOVERY AND LANDFILLING AND TOTAL WASTE TONNAGES TO EACH DISPOSAL ROUTE (Million Tonnes)

		2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
MSW and C&I recovery																					
	Total existing/planned MSW and C&I recovery capacity	0.120	0.120	0.120	0.120	0.120	0.120	0.120	0.120	0.120	0.120	0.120	0.120	0.120	0.120	0.120	0.120	0.120	0.120	0.120	0.120
	Surplus/deficit capacity	0.094	0.092	0.090	0.087	0.085	0.080	0.075	0.069	0.065	0.060	0.058	0.056	0.054	0.052	0.049	0.050	0.051	0.052	0.053	0.054
MSW and C&I recycling and composting																					
	Total existing/planned MSW and C&I recycling and composting capacity (Baseline: 20% of transfer capacity delivers recycling)	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070
	Total existing/planned MSW and C&I recycling and composting capacity (Sensitivity: 5% of transfer capacity delivers recycling)	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056
	Surplus/deficit capacity (Baseline: 20% of transfer capacity delivers recycling)	-0.019	-0.026	-0.032	-0.040	-0.047	-0.054	-0.061	-0.067	-0.072	-0.078	-0.082	-0.087	-0.092	-0.098	-0.103	-0.108	-0.113	-0.119	-0.124	-0.129
	Surplus/deficit capacity (Sensitivity: 5% of transfer capacity delivers recycling)	-0.033	-0.039	-0.046	-0.053	-0.061	-0.067	-0.074	-0.080	-0.086	-0.091	-0.096	-0.101	-0.106	-0.111	-0.116	-0.121	-0.127	-0.132	-0.137	-0.143
C&D recycling																					
	Total existing/planned C&D recycling capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Surplus/deficit capacity	-0.078	-0.080	-0.082	-0.084	-0.085	-0.085	-0.085	-0.085	-0.085	-0.085	-0.089	-0.092	-0.096	-0.099	-0.102	-0.102	-0.102	-0.102	-0.102	-0.102
C&D recovery																					
	REGIONAL total existing/planned C&D recovery capacity	1.794	1.710	1.627	1.544	1.460	1.439	1.418	1.398	1.377	1.356	1.325	1.293	1.262	1.231	1.199	1.220	1.241	1.262	1.283	1.304
	Surplus/deficit capacity	1.733	1.651	1.569	1.486	1.404	1.382	1.360	1.338	1.316	1.294	1.266	1.237	1.209	1.180	1.152	1.172	1.192	1.212	1.232	1.252
Hazardous waste recycling																					
	Total existing/planned hazardous waste recycling capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Surplus/deficit capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hazardous waste recovery																					
	Total existing/planned hazardous waste recovery capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Surplus/deficit capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Non-hazardous landfill																					
	Available non-hazardous landfill capacity (excluding residues from MSW and C&I recovery)	0.950	0.817	0.685	0.555	0.428	0.304	0.185	0.072	-0.036	-0.139	-0.239	-0.337	-0.433	-0.528	-0.621	-0.711	-0.801	-0.892	-0.983	-1.073
	Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'Incineration (non-specialist)'	0.950	0.813	0.677	0.543	0.411	0.281	0.156	0.036	-0.079	-0.191	-0.299	-0.407	-0.513	-0.617	-0.720	-0.821	-0.922	-1.023	-1.124	-1.224
	Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'MBT'	0.950	0.801	0.653	0.506	0.360	0.215	0.072	-0.068	-0.205	-0.341	-0.476	-0.611	-0.745	-0.879	-1.012	-1.144	-1.276	-1.407	-1.538	-1.668
	Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'RDF'	0.950	0.814	0.679	0.545	0.414	0.286	0.162	0.043	-0.070	-0.180	-0.287	-0.393	-0.497	-0.599	-0.700	-0.799	-0.898	-0.997	-1.096	-1.194
	Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'treatment'	0.950	0.805	0.661	0.518	0.376	0.236	0.099	-0.035	-0.165	-0.293	-0.420	-0.546	-0.671	-0.796	-0.919	-1.041	-1.163	-1.285	-1.406	-1.527
Inert landfill																					
	Available inert landfill capacity	0.000	-0.032	-0.063	-0.093	-0.123	-0.152	-0.180	-0.207	-0.233	-0.258	-0.282	-0.305	-0.327	-0.349	-0.370	-0.391	-0.411	-0.430	-0.448	-0.466
	Available inert landfill capacity assuming all MSW and C&I recovery by 'Incineration (non-specialist)'	0.000	-0.036	-0.071	-0.106	-0.140	-0.175	-0.209	-0.242	-0.276	-0.309	-0.342	-0.374	-0.407	-0.438	-0.470	-0.501	-0.531	-0.561	-0.589	-0.617
Hazardous landfill																					
	Available hazardous landfill capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Note: The model does not contain data for the management of hazardous waste.

DATA_01: ARISINGS AND GROWTH RATES OF MSW, C&I AND HAZARDOUS WASTE (Million Tonnes)		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	Arisings of MSW in baseline year																					
	(1) Forecast regional level growth rate of MSW - per year (%)	3.0%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%
	(1) Forecast regional level growth rate of MSW - cumulative (%)	106%	109%	111%	114%	117%	120%	122%	125%	127%	130%	133%	135%	137%	139%	141%	143%	145%	147%	149%	152%	154%
	Total arisings of MSW using regional growth forecasts	0.088	0.090	0.092	0.094	0.097	0.099	0.101	0.103	0.105	0.107	0.110	0.111	0.113	0.115	0.116	0.118	0.120	0.122	0.123	0.125	0.127
	(1) Forecast sub-regional growth rate of MSW - per year (%)	3.0%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%
	(1) Forecast sub-regional level growth rate of MSW - cumulative (%)	106%	109%	111%	114%	117%	120%	122%	125%	127%	130%	133%	135%	137%	139%	141%	143%	145%	147%	149%	152%	154%
	Total arisings of MSW using sub-regional growth forecasts	0.088	0.090	0.092	0.094	0.097	0.099	0.101	0.103	0.105	0.107	0.110	0.111	0.113	0.115	0.116	0.118	0.120	0.122	0.123	0.125	0.127
c&i	Arisings of C&I in baseline year																					
	(1) Forecast regional level growth rate of C&I - per year (%)	3.3%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.0%	1.0%	1.0%	1.0%	1.0%
	(1) Forecast regional level growth rate of C&I - cumulative (%)	117%	120%	123%	126%	130%	133%	136%	138%	141%	144%	147%	149%	151%	153%	156%	158%	160%	161%	163%	164%	166%
	Total arisings of C&I using regional growth forecasts	0.134	0.137	0.140	0.144	0.147	0.151	0.154	0.157	0.160	0.164	0.167	0.169	0.172	0.174	0.177	0.180	0.181	0.183	0.185	0.187	0.189
	(1) Forecast sub-regional level growth rate of C&I - per year (%)	3.3%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.0%	1.0%	1.0%	1.0%	1.0%
	(1) Forecast sub-regional level growth rate of C&I - cumulative (%)	117%	120%	123%	126%	130%	133%	136%	138%	141%	144%	147%	149%	151%	153%	156%	158%	160%	161%	163%	164%	166%
	Total arisings of C&I using sub-regional growth forecasts	0.134	0.137	0.140	0.144	0.147	0.151	0.154	0.157	0.160	0.164	0.167	0.169	0.172	0.174	0.177	0.180	0.181	0.183	0.185	0.187	0.189
hazardous	Arisings of hazardous waste in baseline year																					
	(2) Forecast regional level growth rate of hazardous waste - per year (%)	3.3%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.0%	1.0%	1.0%	1.0%	1.0%
	Forecast regional level growth rate of hazardous waste - cumulative (%)	107%	109%	112%	115%	118%	121%	123%	126%	128%	131%	133%	135%	137%	139%	141%	144%	145%	146%	148%	149%	151%
	Total arisings of hazardous waste	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
	(2) Forecast sub-regional level growth rate of hazardous waste - per year (%)	3.3%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.0%	1.0%	1.0%	1.0%	1.0%
	Forecast sub regional level growth rate of hazardous waste - cumulative (%)	107%	109%	112%	115%	118%	121%	123%	126%	128%	131%	133%	135%	137%	139%	141%	144%	145%	146%	148%	149%	151%
	Total arisings of hazardous waste	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
c&d	Total managed C&D in baseline year																					
	(3) Forecast regional-level growth rate of managed C&D - per year (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Forecast regional-level growth rate of managed C&D - cumulative (%)	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
	(3) Total managed of C&D for the sub-region	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171

(1) Figures from SEERA updated waste capacity model by ERM in 2005.
(2) Baseline year of hazardous waste arisings is 2003 from EA Hazardous Waste Interrogator. www.environment-agency.gov.uk/apps/wastesurvey2/. ERM has assumed that growth in hazardous waste is equal to C&I waste.
(3) These data represent managed C&D waste in the sub-region, including all intra-regional and inter-regional movements. Growth is assumed to be zero from the orginal MEL study and updated modeted by ERM in 2005.
NOTE: C&D waste is not included in arisings because this was taken from survey data by Symonds 2001 which gave values for managed C&D waste.

Isle of Wight

Figure in blue represent data supplied by each sub-region for the new '2006 SEERA Capacity and Need Model'
Figures in orange represent managed waste that are used by the model to calculate results. These can be adjusted for different scenarios.

DATA_02: INTER REGIONAL MOVEMENTS OF MSW and C&I (Million Tonnes)		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw and c&i	Regional level imports of MSW and C&I waste into the SE region from London	1.76	1.716	1.672	1.628	1.584	1.54	1.454	1.368	1.282	1.196	1.11	1.064	1.018	0.972	0.926	0.88	0.86	0.84	0.82	0.8	0.78
	Proportion of regional MSW and C&I imports that go to the sub-region (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	(1) Total imports of MSW and C&I from London into sub-region sent direct to landfill	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
msw	Proportion of total MSW and C&I imports that are MSW (%) - REGIONAL GROWTH FORECAST	40%	40%	40%	40%	40%	40%	40%	40%	40%	40%	40%	40%	40%	40%	40%	40%	40%	40%	40%	40%	40%
	Total imports of MSW into the sub-region from London - REGIONAL GROWTH FORECAST	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Proportion of total MSW and C&I imports that are MSW (%) - SUB-REGIONAL GROWTH FORECAST	40%	40%	40%	40%	40%	40%	40%	40%	40%	40%	40%	40%	40%	40%	40%	40%	40%	40%	40%	40%	40%
	Total imports of MSW into the sub-region from London - SUB-REGIONAL GROWTH FORECAST	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
c&i	Proportion of total MSW and C&I imports that are C&I (%) - REGIONAL GROWTH FORECAST	60%	60%	60%	60%	60%	60%	60%	60%	60%	60%	60%	60%	60%	60%	60%	60%	60%	60%	60%	60%	60%
	Total imports of C&I into the sub-region from London - REGIONAL GROWTH FORECAST	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Proportion of total MSW and C&I imports that are C&I (%) - SUB-REGIONAL GROWTH FORECAST	60%	60%	60%	60%	60%	60%	60%	60%	60%	60%	60%	60%	60%	60%	60%	60%	60%	60%	60%	60%	60%
	Total imports of C&I into the sub-region from London - SUB-REGIONAL GROWTH FORECAST	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

(1) Intra-regional and inter-regional movements have been excluded for MSW and C&I waste due to self-sufficiency requirements under PPS10, except for inter-regional movements from London into the sub-region. Apportionment from Policy W3 in the Plan – downloa
Note: Only a figure is available for total combined imports of MSW and C&I waste. ERM has assumed that imports of the seperate waste streams of MSW and C&I was split according to tonnage arisings of MSW and C&I in the sub-region.

DATA_03: MANAGED WASTE USED TO GENERATE RESULTS (Million Tonnes)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	0.088	0.090	0.092	0.094	0.097	0.099	0.101	0.103	0.105	0.107	0.110	0.111	0.113	0.115	0.116	0.118	0.120	0.122	0.123	0.125	0.127
msw - imports from london that are sent direct to non-hazardous landfill	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
c&i	0.134	0.137	0.140	0.144	0.147	0.151	0.154	0.157	0.160	0.164	0.167	0.169	0.172	0.174	0.177	0.180	0.181	0.183	0.185	0.187	0.189
c&I - imports from london that are sent direct to non-hazardous landfill	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
c&d	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171
hazardous	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004

DATA_04: TARGETS (% or Million Tonnes)		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	(1) landfill (Mt)	0.035	0.034	0.034	0.033	0.032	0.030	0.027	0.023	0.020	0.019	0.018	0.018	0.017	0.016	0.015	0.014	0.014	0.014	0.014	0.014	0.014
	recovered (%)	5	6.4	7.8	9.2	10.6	12	14.4	16.8	19.2	21.6	24	24.8	25.6	26.4	27.2	28	27.2	26.4	25.6	24.8	24
	recycled and composted (%)	30	32.0	34.0	36.0	38.0	40	42.0	44.0	46.0	48.0	50	51.0	52.0	53.0	54.0	55	56.0	57.0	58.0	59.0	60
c&i	recovered (%)	14	14.2	14.4	14.6	14.8	15	16.0	17.0	18.0	19.0	20	20.2	20.4	20.6	20.8	21	20.6	20.2	19.8	19.4	19
	recycled and composted (%)	40	42.0	44.0	46.0	48.0	50	51.0	52.0	53.0	54.0	55	56.0	57.0	58.0	59.0	60	61.0	62.0	63.0	64.0	65
c&d	recovered (%)	36	35.4	34.8	34.2	33.6	33	33.6	34.2	34.8	35.4	36	34.4	32.8	31.2	29.6	28	28.4	28.8	29.2	29.6	30
	recycled (%)	45	46.0	47.0	48.0	49.0	50	50.0	50.0	50.0	50.0	50	52.0	54.0	56.0	58.0	60	60.0	60.0	60.0	60.0	60
hazardous	landfill (%)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	recovered (%)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	recycled (%)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

(1) ERM has assumed that the LATS target allowance remains constant at the 2020 value for the years beyond 2020

DATA_05: WASTE STREAM TONNAGES TO MEET TARGETS (Million Tonnes)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025

This first section of DATA_03 calculates if there is a LATS shortfall or suplus in each year. If there is a LATS shortfall (ie insufficient allowance to landfill non-diverted waste) then the model assumes that this extra waste is recycled/composted and r

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	Total MSW to be recovered and recycled/composted to meet target	0.031	0.035	0.039	0.043	0.047	0.052	0.057	0.063	0.069	0.075	0.081	0.084	0.088	0.091	0.094	0.098	0.100	0.101	0.103	0.105	0.107
	Total MSW not-diverted by targets	0.057	0.055	0.054	0.052	0.050	0.048	0.044	0.040	0.037	0.033	0.028	0.027	0.025	0.024	0.022	0.020	0.020	0.020	0.020	0.020	0.020
	Percentage of MSW that is biodegradable (% by weight)	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68
	Total BMW not-diverted by targets	0.039	0.038	0.036	0.035	0.034	0.032	0.030	0.028	0.025	0.022	0.019	0.018	0.017	0.016	0.015	0.014	0.014	0.014	0.014	0.014	0.014
	LATS shortfall (how much extra is landfilled above LATS target)	0.004	0.003	0.003	0.002	0.002	0.002	0.003	0.004	0.005	0.003	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Ratio of 'recovered' to 'recycled/composted' for target (%)	14%	17%	19%	20%	22%	23%	26%	28%	29%	31%	32%	33%	33%	33%	33%	34%	33%	32%	31%	30%	29%
	Extra MSW 'recovery' needed due to LATS shortfall	*0.001*	*0.001*	*0.001*	*0.000*	*0.000*	*0.001*	*0.001*	*0.001*	*0.001*	*0.001*	*0.000*	*0.000*	*0.000*	*0.000*	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Extra MSW 'recycling/composting' needed due to LATS shortfall	*0.003*	*0.003*	*0.002*	*0.002*	*0.002*	*0.002*	*0.002*	*0.003*	*0.003*	*0.002*	*0.001*	*0.001*	*0.000*	*0.000*	0.000	0.000	0.000	0.000	0.000	0.000	0.000

The section below in DATA_03 shows the tonnages by waste to meet targets.

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	Recycling and composting target	0.030	0.031	0.034	0.036	0.039	0.041	0.045	0.048	0.052	0.054	0.055	0.057	0.059	0.061	0.063	0.065	0.067	0.069	0.072	0.074	0.076
	Recovery target	0.005	0.006	0.008	0.009	0.011	0.012	0.015	0.018	0.022	0.024	0.027	0.028	0.029	0.030	0.032	0.033	0.033	0.032	0.032	0.031	0.031
	Non-hazardous landfill	0.053	0.052	0.051	0.049	0.048	0.045	0.041	0.036	0.032	0.030	0.028	0.026	0.025	0.023	0.022	0.020	0.020	0.020	0.020	0.020	0.020
	CHECK COUNTER (should be zero)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
c&i	Recycling and composting target	0.053	0.057	0.062	0.066	0.071	0.076	0.079	0.082	0.085	0.088	0.092	0.095	0.098	0.101	0.104	0.108	0.111	0.114	0.117	0.120	0.123
	Recovery target	0.019	0.019	0.020	0.021	0.022	0.023	0.025	0.027	0.029	0.031	0.033	0.034	0.035	0.036	0.037	0.038	0.037	0.037	0.037	0.036	0.036
	Non-hazardous landfill	0.061	0.060	0.058	0.057	0.055	0.053	0.051	0.049	0.046	0.044	0.042	0.040	0.039	0.037	0.036	0.034	0.033	0.033	0.032	0.031	0.030
	CHECK COUNTER (should be zero)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
c&d	Recycling target	0.077	0.078	0.080	0.082	0.084	0.085	0.085	0.085	0.085	0.085	0.085	0.089	0.092	0.096	0.099	0.102	0.102	0.102	0.102	0.102	0.102
	Recovery target	0.061	0.060	0.059	0.058	0.057	0.056	0.057	0.058	0.059	0.060	0.061	0.059	0.056	0.053	0.051	0.048	0.048	0.049	0.050	0.051	0.051
	Inert landfill	0.032	0.032	0.031	0.030	0.030	0.029	0.028	0.027	0.026	0.025	0.024	0.023	0.023	0.022	0.021	0.020	0.020	0.019	0.018	0.018	0.017
	CHECK COUNTER (should be zero)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
hazardous	Hazardous waste	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004

DATA_06: TOTAL WASTE TONNAGES TO MEET TARGETS (Million Tonnes)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
MSW and C&I recycling and composting target	0.083	0.089	0.095	0.102	0.109	0.117	0.123	0.130	0.137	0.142	0.147	0.152	0.157	0.162	0.167	0.173	0.178	0.183	0.188	0.194	0.199
C&D recycling target	0.077	0.078	0.080	0.082	0.084	0.085	0.085	0.085	0.085	0.085	0.085	0.089	0.092	0.096	0.099	0.102	0.102	0.102	0.102	0.102	0.102
MSW and C&I recovery target	0.024	0.026	0.028	0.030	0.033	0.035	0.040	0.045	0.051	0.055	0.060	0.062	0.064	0.066	0.068	0.071	0.070	0.069	0.068	0.067	0.066
C&D recovery target	0.061	0.060	0.059	0.058	0.057	0.056	0.057	0.058	0.059	0.060	0.061	0.059	0.056	0.053	0.051	0.048	0.048	0.049	0.050	0.051	0.051
Non-hazardous landfill	0.115	0.112	0.109	0.106	0.102	0.098	0.092	0.085	0.078	0.074	0.069	0.066	0.064	0.061	0.058	0.054	0.054	0.053	0.052	0.051	0.051
Inert landfill	0.032	0.032	0.031	0.030	0.030	0.029	0.028	0.027	0.026	0.025	0.024	0.023	0.023	0.022	0.021	0.020	0.020	0.019	0.018	0.018	0.017
Hazardous waste	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004

Isle of Wight

CHART_01

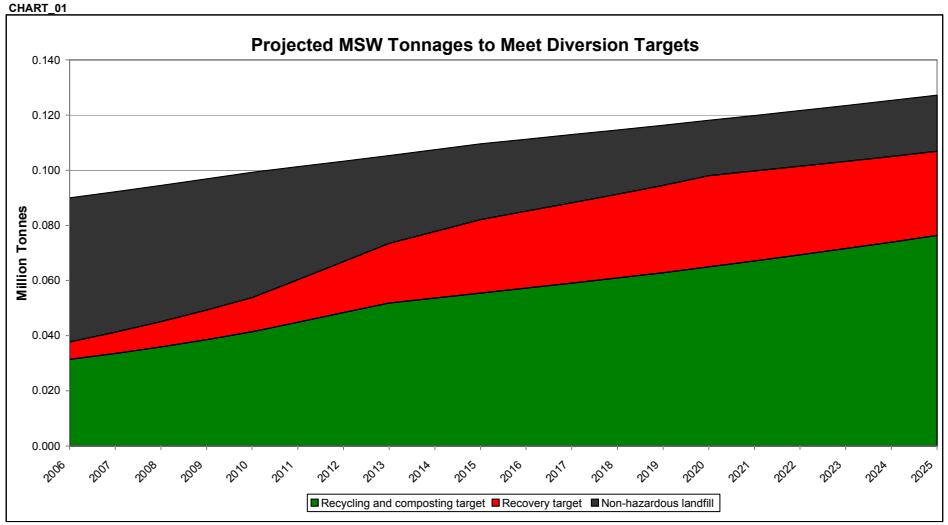


CHART_02

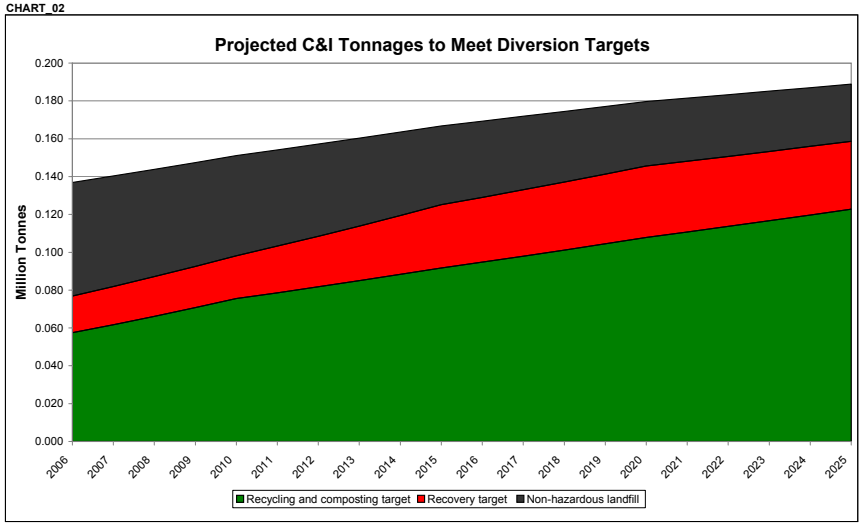


CHART_03

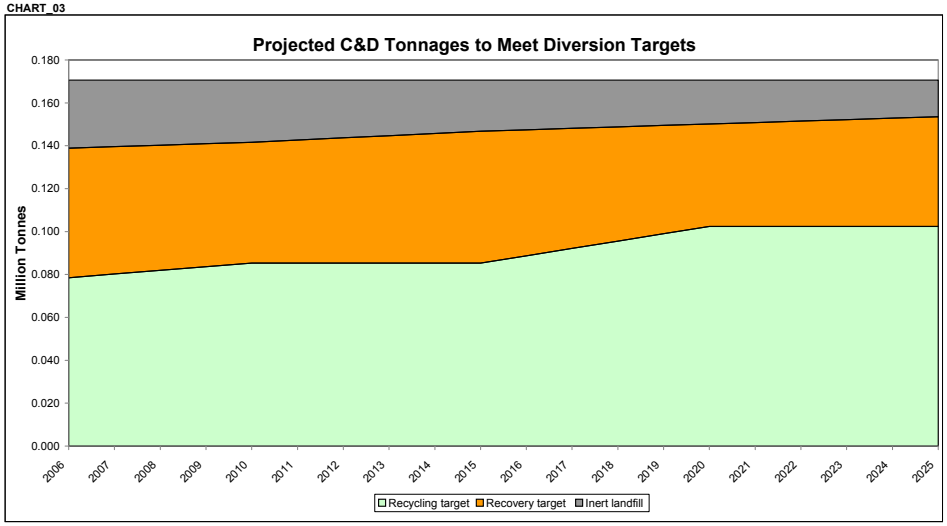
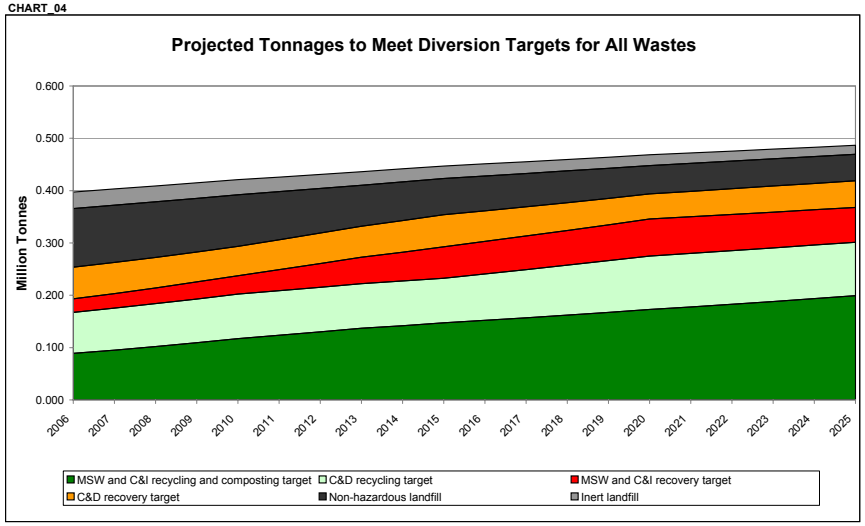
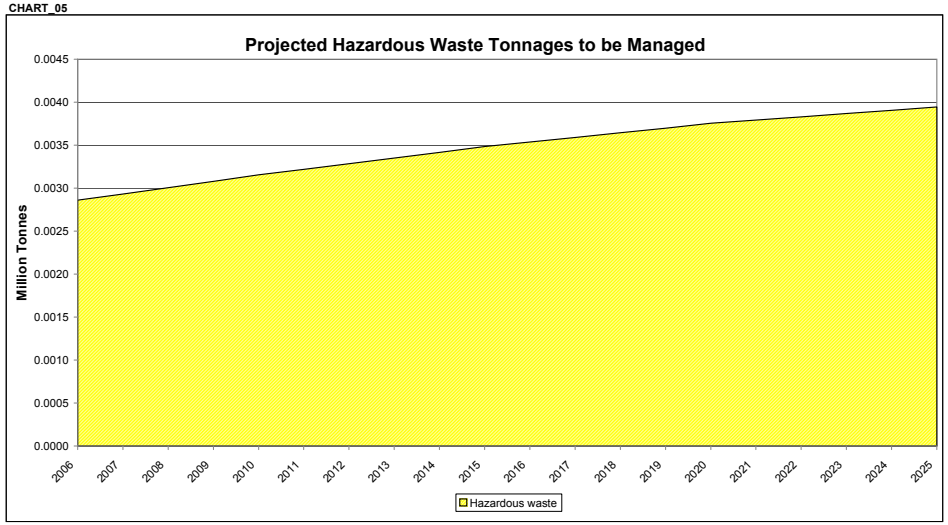


CHART_04



Isle of Wright

CHART_05



DATA_07: EXISTING/PLANNED CAPACITY FOR RECYCLING, RECOVERY AND LANDFILLING AND TOTAL WASTE TONNAGES TO EACH DISPOSAL ROUTE (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
MSW and C&I recovery																					
MSW and C&I incineration (non-specialist)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
MSW and C&I treatment	0.120	0.120	0.120	0.120	0.120	0.120	0.120	0.120	0.120	0.120	0.120	0.120	0.120	0.120	0.120	0.120	0.120	0.120	0.120	0.120	0.120
Total existing/planned MSW and C&I recovery capacity	0.120	0.120	0.120	0.120	0.120	0.120	0.120	0.120	0.120	0.120	0.120	0.120	0.120	0.120	0.120	0.120	0.120	0.120	0.120	0.120	0.120
Total MSW waste required to meet target	0.005	0.006	0.008	0.009	0.011	0.012	0.015	0.018	0.022	0.024	0.027	0.028	0.029	0.030	0.032	0.033	0.033	0.032	0.032	0.031	0.031
Total C&I waste required to meet target	0.019	0.019	0.020	0.021	0.022	0.023	0.025	0.027	0.029	0.031	0.033	0.034	0.035	0.036	0.037	0.038	0.037	0.037	0.037	0.036	0.036
Surplus/deficit capacity	0.096	0.094	0.092	0.090	0.087	0.085	0.080	0.075	0.069	0.065	0.060	0.058	0.056	0.054	0.052	0.049	0.050	0.051	0.052	0.053	0.054
MSW and C&I recycling and composting																					
MSW and C&I recycling	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
MSW and C&I transfer	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088
Total existing/planned composting capacity	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052
(1) Total existing/planned MSW and C&I recycling and composting capacity (Baseline: 20% of transfer capacity delivers recycling)	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070
(2) Total existing/planned MSW and C&I recycling and composting capacity (Sensitivity: 5% of transfer capacity delivers recycling)	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056
Total MSW waste required to meet recycling and composting target	0.030	0.031	0.034	0.036	0.039	0.041	0.045	0.048	0.052	0.054	0.055	0.057	0.059	0.061	0.063	0.065	0.067	0.069	0.072	0.074	0.076
Total C&I waste required to meet recycling and composting target	0.053	0.057	0.062	0.066	0.071	0.076	0.079	0.082	0.085	0.088	0.092	0.095	0.098	0.101	0.104	0.108	0.111	0.114	0.117	0.120	0.123
Surplus/deficit capacity (Baseline: 20% of transfer capacity delivers recycling)	-0.013	-0.019	-0.026	-0.032	-0.040	-0.047	-0.054	-0.061	-0.067	-0.072	-0.078	-0.082	-0.087	-0.092	-0.098	-0.103	-0.108	-0.113	-0.119	-0.124	-0.129
Surplus/deficit capacity (Sensitivity: 5% of transfer capacity delivers recycling)	-0.027	-0.033	-0.039	-0.046	-0.053	-0.061	-0.067	-0.074	-0.080	-0.086	-0.091	-0.096	-0.101	-0.106	-0.111	-0.116	-0.121	-0.127	-0.132	-0.137	-0.143
C&D recycling																					
Total existing/planned C&D recycling capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total waste required to meet C&D recycling target	0.077	0.078	0.080	0.082	0.084	0.085	0.085	0.085	0.085	0.085	0.085	0.089	0.092	0.096	0.099	0.102	0.102	0.102	0.102	0.102	0.102
Surplus/deficit capacity	-0.077	-0.078	-0.080	-0.082	-0.084	-0.085	-0.085	-0.085	-0.085	-0.085	-0.085	-0.089	-0.092	-0.096	-0.099	-0.102	-0.102	-0.102	-0.102	-0.102	-0.102
C&D recovery																					
(3) REGIONAL total existing/planned C&D recovery capacity	1.877	1.794	1.710	1.627	1.544	1.460	1.439	1.418	1.398	1.377	1.356	1.325	1.293	1.262	1.231	1.199	1.220	1.241	1.262	1.283	1.304
Sub-regional total waste required to meet C&D recovery target	0.061	0.060	0.059	0.058	0.057	0.056	0.057	0.058	0.059	0.060	0.061	0.059	0.056	0.053	0.051	0.048	0.048	0.049	0.050	0.051	0.051
Surplus/deficit capacity	1.816	1.733	1.651	1.569	1.486	1.404	1.382	1.360	1.338	1.316	1.294	1.266	1.237	1.209	1.180	1.152	1.172	1.192	1.212	1.232	1.252
Hazardous waste recycling																					
Total existing/planned hazardous waste recycling capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total hazardous waste to be recycled	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Surplus/deficit capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hazardous waste recovery																					
Total existing/planned hazardous waste recovery capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total hazardous waste to be recovered	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Surplus/deficit capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Non-hazardous landfill																					
Available non-hazardous landfill capacity (excluding residues from MSW and C&I recovery)		0.950	0.817	0.685	0.555	0.428	0.304	0.185	0.072	-0.036	-0.139	-0.239	-0.337	-0.433	-0.528	-0.621	-0.711	-0.801	-0.892	-0.983	-1.073
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'Incineration (non-specialist)'		0.950	0.813	0.677	0.543	0.411	0.281	0.156	0.036	-0.079	-0.191	-0.299	-0.407	-0.513	-0.617	-0.720	-0.821	-0.922	-1.023	-1.124	-1.224
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'MBT'		0.950	0.801	0.653	0.506	0.360	0.215	0.072	-0.068	-0.205	-0.341	-0.476	-0.611	-0.745	-0.879	-1.012	-1.144	-1.276	-1.407	-1.538	-1.668
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'RDF'		0.950	0.814	0.679	0.545	0.414	0.286	0.162	0.043	-0.070	-0.180	-0.287	-0.393	-0.497	-0.599	-0.700	-0.799	-0.898	-0.997	-1.096	-1.194
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'treatment'		0.950	0.805	0.661	0.518	0.376	0.236	0.099	-0.035	-0.165	-0.293	-0.420	-0.546	-0.671	-0.796	-0.919	-1.041	-1.163	-1.285	-1.406	-1.527
Total MSW and C&I waste sent direct to non-hazardous landfill		0.112	0.109	0.106	0.102	0.098	0.092	0.085	0.078	0.074	0.069	0.066	0.064	0.061	0.058	0.054	0.054	0.053	0.052	0.051	0.051
Inert landfill																					
Available inert landfill capacity		0.000	-0.032	-0.063	-0.093	-0.123	-0.152	-0.180	-0.207	-0.233	-0.258	-0.282	-0.305	-0.327	-0.349	-0.370	-0.391	-0.411	-0.430	-0.448	-0.466
Available inert landfill capacity assuming all MSW and C&I recovery by 'Incineration (non-specialist)'		0.000	-0.036	-0.071	-0.106	-0.140	-0.175	-0.209	-0.242	-0.276	-0.309	-0.342	-0.374	-0.407	-0.438	-0.470	-0.501	-0.531	-0.561	-0.589	-0.617
Total C&D waste sent direct to inert landfill (excludes residues from MSW and C&I recovery)	0.032	0.032	0.031	0.030	0.030	0.029	0.028	0.027	0.026	0.025	0.024	0.023	0.023	0.022	0.021	0.020	0.020	0.019	0.018	0.018	0.017
Hazardous landfill																					
Available hazardous landfill capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total hazardous waste sent direct to hazardous landfill	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Other																					
Metal/ELV facility	0.147	0.147	0.147	0.147	0.147	0.147	0.147	0.147	0.147	0.147	0.147	0.147	0.147	0.147	0.147	0.147	0.147	0.147	0.147	0.147	0.147
Ignored	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Closed	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

(1) ERM has assumed that 20% of the total "transfer' capacity will deliver recycling capacity
(2) ERM has assumed that 5% of the total "transfer' capacity will deliver recycling capacity
(3) Data for C&D recovery for landfill cover for the SE Region were sourced from the original MEL model, which sourced the data from Symonds (2001)
Landfill capacity data for 2005 were adapted from *Table R* in the ERM data template for each sub-region

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Isle of Wight

DATA_08: RESIDUE RATES (%)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Recovery residues (% by weight)																					
MSW and C&I incineration (non-specialist) - bottom ash	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
MSW and C&I incineration (non-specialist) - fly ash	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
MSW and C&I to MBT	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59
MSW and C&I to RDF	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
MSW and C&I treatment - non-hazardous	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45
MSW and C&I treatment - hazardous	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Hazardous waste recovery	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Recycling residues (% by weight)																					
MSW and C&I recycling	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
MSW and C&I transfer	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
MSW and C&I composting	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
C&D recycling	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Hazardous waste recycling	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Other																					
Metal/ELV facility	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Ignored	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Closed	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Note: All residues are calculated on the amount of waste arising not on the maount of capacity available. This is complaince with the self-sufficiency requirements of PPS10.

DATA_09: TOTAL RESIDUE (Million Tonnes)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Recovery residues (of waste managed):																					
MSW and C&I incineration (non-specialist) - bottom ash	0.007	0.008	0.008	0.009	0.010	0.011	0.012	0.014	0.015	0.017	0.018	0.019	0.019	0.020	0.021	0.021	0.021	0.021	0.020	0.020	0.020
MSW and C&I incineration (non-specialist) - fly ash	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
MSW and C&I to MBT	0.014	0.015	0.016	0.018	0.019	0.021	0.024	0.027	0.030	0.033	0.035	0.037	0.038	0.039	0.040	0.042	0.041	0.041	0.040	0.040	0.039
MSW and C&I to RDF	0.003	0.003	0.003	0.004	0.004	0.004	0.005	0.005	0.006	0.007	0.007	0.007	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
MSW and C&I treatment - non-hazardous	0.011	0.012	0.013	0.014	0.015	0.016	0.018	0.020	0.023	0.025	0.027	0.028	0.029	0.030	0.031	0.032	0.031	0.031	0.031	0.030	0.030
MSW and C&I treatment - hazardous	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.004	0.003	0.003	0.003	0.003	0.003
Hazardous waste recovery	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Recycling residues (of waste managed):																					
MSW and C&I recycling and composting	0.012	0.013	0.014	0.015	0.016	0.018	0.019	0.020	0.021	0.021	0.022	0.023	0.024	0.024	0.025	0.026	0.027	0.027	0.028	0.029	0.030
C&D recycling	0.008	0.008	0.008	0.008	0.008	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
Hazardous waste recycling	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Note: All residues are calculated on the amount of waste arising not on the maount of capacity available. This is complaince with the self-sufficiency requirements of PPS10.

DATA_10: TOTAL MSW AND C&I RESIDUE FROM RECYCLING SENT TO NON-HAZARDOUS LANDFILL (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Total MSW and C&I recycling and composting residue sent to non-hazardous landfill	0.020	0.021	0.022	0.024	0.025	0.026	0.027	0.028	0.029	0.030	0.031	0.032	0.033	0.034	0.035	0.036	0.037	0.038	0.038	0.039	0.040

DATA_11: TOTAL MSW AND C&I RESIDUE FROM RECOVERY SENT TO NON-HAZARDOUS LANDFILL AND C&D RECYCLING (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
SCENARIO 1 - Assumes all recovery is by 'Non-specialist incineration' (based on total recovery capacity)																					
(1) Total MSW and C&I residue sent to non-hazardous landfill assuming all MSW and C&I recovery by 'Non-specialist incineration'	0.004	0.004	0.004	0.005	0.005	0.005	0.006	0.007	0.008	0.008	0.009	0.009	0.010	0.010	0.010	0.011	0.010	0.010	0.010	0.010	0.010
(1) Total MSW and C&I residue sent to inert landfill assuming all MSW and C&I recovery by 'Non-specialist incineration'	0.004	0.004	0.004	0.005	0.005	0.005	0.006	0.007	0.008	0.008	0.009	0.009	0.010	0.010	0.010	0.011	0.010	0.010	0.010	0.010	0.010
SCENARIO 2 - Assumes all recovery is by 'MBT' (based on total recovery capacity)																					
Total MSW and C&I residue sent to non-hazardous landfill	0.014	0.015	0.016	0.018	0.019	0.021	0.024	0.027	0.030	0.033	0.035	0.037	0.038	0.039	0.040	0.042	0.041	0.041	0.040	0.040	0.039
SCENARIO 3 - Assumes all recovery is by 'RDF' (based on total recovery capacity)																					
Total MSW and C&I residue sent to non-hazardous landfill	0.003	0.003	0.003	0.004	0.004	0.004	0.005	0.005	0.006	0.007	0.007	0.007	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
SCENARIO 4 - Assumes all recovery is by 'treatment' (based on total recovery capacity)																					
(2) Total MSW and C&I residue sent to non-hazardous landfill	0.011	0.012	0.013	0.014	0.015	0.016	0.018	0.020	0.023	0.025	0.027	0.028	0.029	0.030	0.031	0.032	0.031	0.031	0.031	0.030	0.030

(1) It was assumed that 50% of residue from 'non-specialist incineration' is sent to non-hazardous landfill and 50% is sent to inert landfill. In the original model assumptions developed MEL 50% was assumed to go to C&D recycling, rather than to inert landfi

DATA_12: TONNAGES OF C&D REUSED ON NON-HAZARDOUS AND INERT LANDFILL (Million Tonnes)

(1) C&D reused on landfill sites	39 %
(1) C&D reused on exempt sites	61 %
(1) C&D reused on landfill sites sent to 'non-haz landfill'	30 %
(1) C&D reused on landfill sites sent to 'inert landfill'	70 %

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
c&d	Total C&D reused on non-hazardous landfill	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006
	Total reused C&D on inert landfill	0.017	0.016	0.016	0.016	0.016	0.015	0.016	0.016	0.016	0.016	0.017	0.016	0.015	0.014	0.014	0.013	0.013	0.013	0.014	0.014	0.014

(1) C&D reuse rates based on original model assumptions developed MEL
NOTE: C&D reuse on inert and non-hazardous landfill is not included within the charts because it has been assumed that data supplied by each sub-region has accounted for C&D reuse as an engineering material.

DATA_13: TOTAL MSW AND C&I RESIDUE FROM RECYCLING SENT TO HAZARDOUS LANDFILL (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Total MSW and C&I recycling and composting residue sent to hazardous landfill	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

DATA_14: TOTAL MSW AND C&I RESIDUE FROM RECOVERY SENT TO HAZARDOUS LANDFILL (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
SCENARIO 1 - Assumes all recovery is by 'Non-specialist incineration' (based on total recovery capacity)																					
Total MSW and C&I residue sent to hazardous landfill assuming all MSW and C&I recovery by 'Non-specialist incineration'	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
SCENARIO 2 - Assumes all recovery is by 'MBT' (based on total recovery capacity)																					
Total MSW and C&I residue sent to hazardous landfill	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SCENARIO 3 - Assumes all recovery is by 'RDF' (based on total recovery capacity)																					
Total MSW and C&I residue sent to hazardous landfill	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SCENARIO 4 - Assumes all recovery is by 'treatment' (based on total recovery capacity)																					
Total MSW and C&I residue sent to hazardous landfill	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.004	0.003	0.003	0.003	0.003	0.003

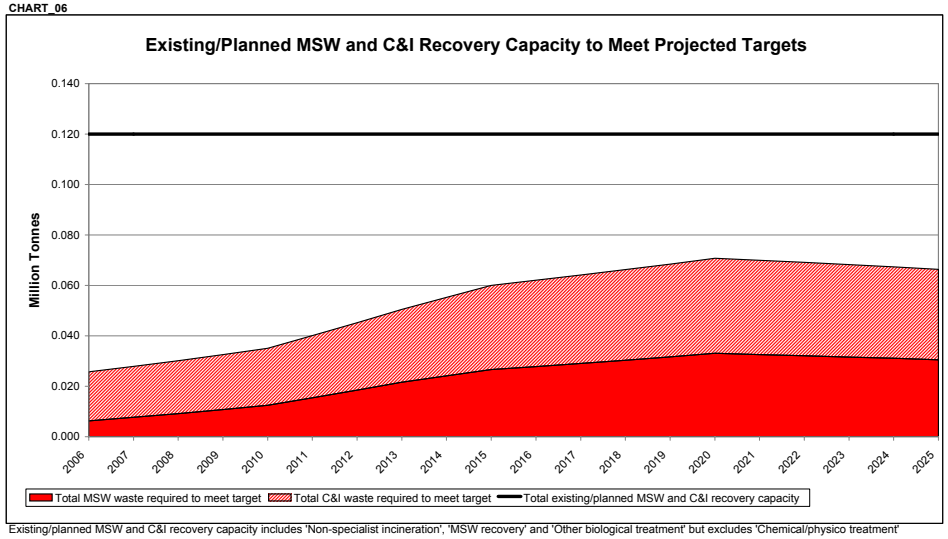
NOTE: This element of the model is redundant. There is currently no hazardous waste capacity figures to generate a chart of managed waste versus available capacity.

DATA_15: TOTAL HAZARDOUS WASTE RESIDUE FROM RECOVERY AND RECYCLING SENT TO HAZARDOUS LANDFILL (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Total hazardous waste recycling and recovery residue sent to hazardous landfill	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

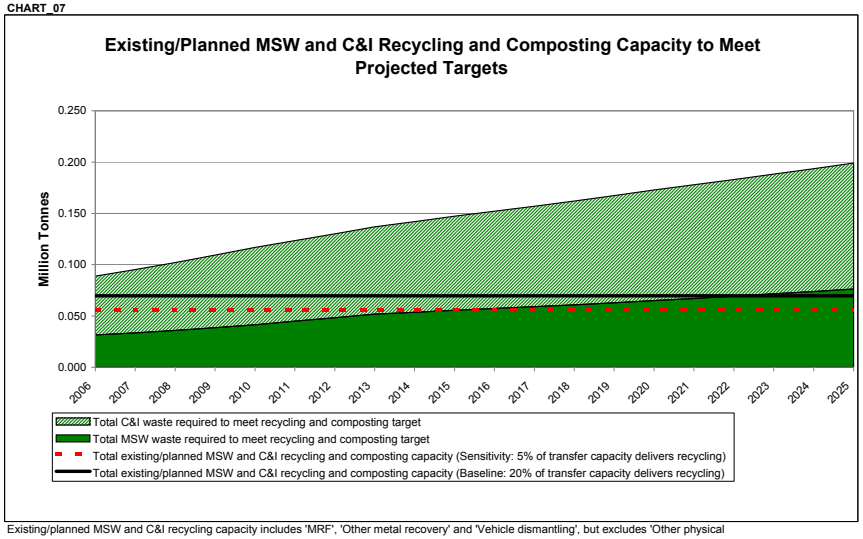
Isle of Wight

CHART_06



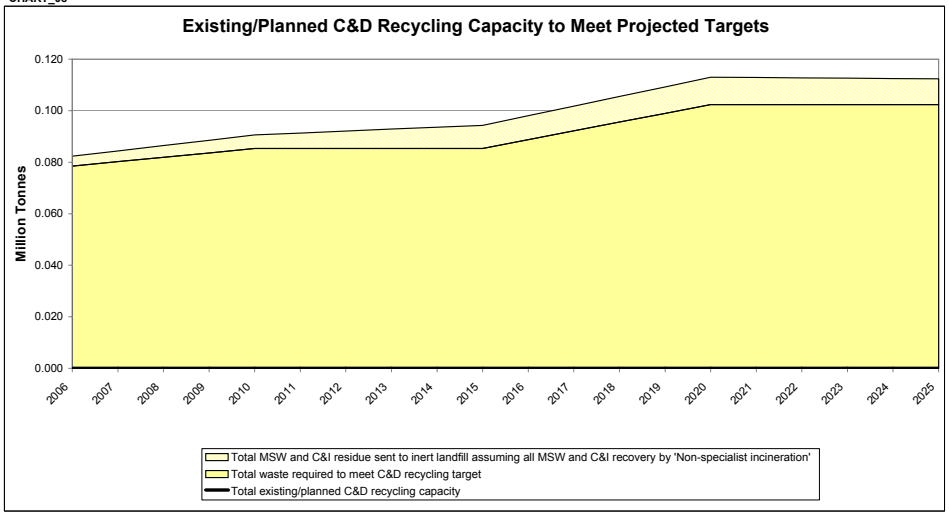
Existing/planned MSW and C&I recovery capacity includes 'Non-specialist incineration', 'MSW recovery' and 'Other biological treatment' but excludes 'Chemical/physico treatment'
NOTE: This capacity does not represent the quantity of material that is recovered.
NOTE: The original MEL model assumes that 'MSW recovery' capacity is incineration - but this is not made explicit.

CHART_07



Existing/planned MSW and C&I recycling capacity includes 'MRF', 'Other metal recovery' and 'Vehicle dismantling', but excludes 'Other physical treatment' (because this category includes CA sites)
NOTE: This capacity does not represent the quantity of material that is recycled and composted.

CHART_08



Isle of Wight

CHART_09

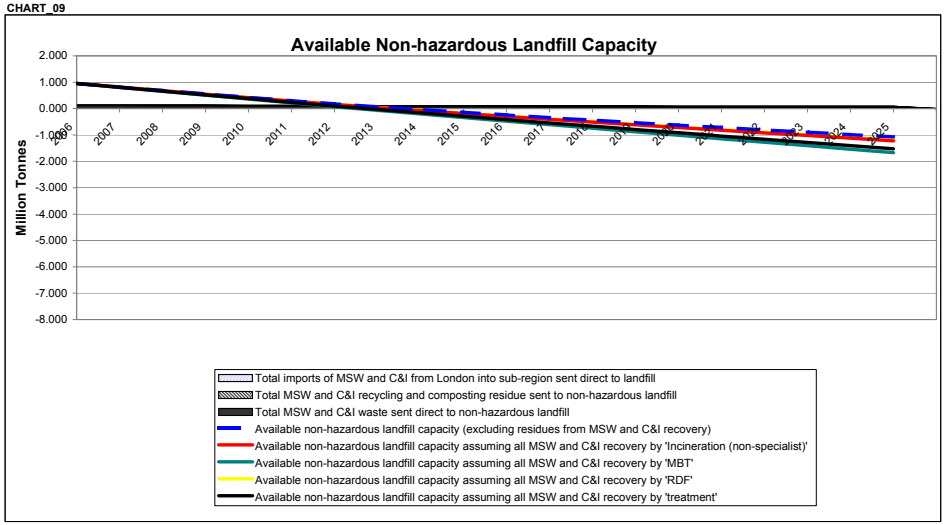
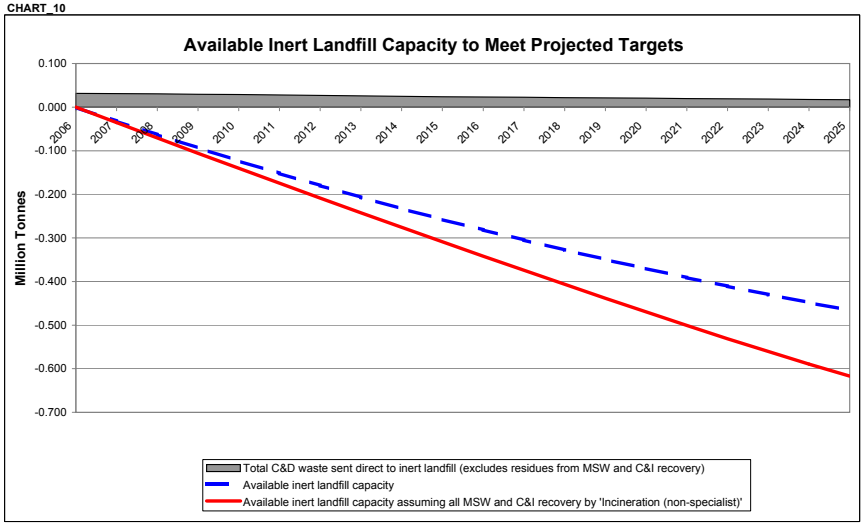


CHART_10



Kent

SUMMARY DATA AND RESULTS FOR KENT

MANAGED WASTE USED TO GENERATE RESULTS (Million Tonnes)	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	0.875	0.897	0.919	0.942	0.966	0.985	1.005	1.025	1.045	1.066	1.082	1.098	1.115	1.131	1.148	1.166	1.183	1.201	1.219	1.237
msw - imports from london that are sent direct to non-hazardous landfill	0.061	0.060	0.058	0.057	0.055	0.052	0.049	0.046	0.043	0.040	0.038	0.036	0.035	0.033	0.031	0.031	0.030	0.030	0.029	0.028
c&i	1.872	1.919	1.967	2.016	2.067	2.108	2.150	2.193	2.237	2.282	2.316	2.351	2.386	2.422	2.458	2.483	2.507	2.532	2.558	2.583
c&i - imports from london that are sent direct to non-hazardous landfill	0.131	0.128	0.125	0.121	0.118	0.111	0.105	0.098	0.092	0.085	0.081	0.078	0.074	0.071	0.067	0.066	0.064	0.062	0.061	0.059
c&d	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600
hazardous	0.108	0.111	0.113	0.116	0.119	0.122	0.124	0.126	0.129	0.132	0.134	0.136	0.138	0.140	0.142	0.143	0.145	0.146	0.148	0.149

WASTE STREAM TONNAGES TO MEET TARGETS (Million Tonnes)		2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	LATS shortfall (how much extra is landfilled above LATS target)	-0.047	-0.038	-0.023	-0.002	0.025	0.034	0.042	0.049	0.031	0.012	0.010	0.007	0.004	0.001	-0.003	-0.002	-0.002	-0.001	-0.001	-0.001
	Recycling and composting target	0.280	0.305	0.331	0.358	0.405	0.439	0.473	0.506	0.523	0.541	0.558	0.576	0.594	0.612	0.632	0.653	0.674	0.697	0.719	0.742
	Recovery target	0.056	0.070	0.085	0.100	0.122	0.151	0.180	0.211	0.235	0.260	0.271	0.284	0.296	0.308	0.322	0.317	0.312	0.307	0.302	0.297
	Non-hazardous landfill	0.539	0.522	0.504	0.484	0.439	0.395	0.352	0.307	0.287	0.265	0.252	0.239	0.225	0.212	0.195	0.196	0.196	0.197	0.197	0.198
c&i	Recycling and composting target	0.786	0.844	0.905	0.968	1.033	1.075	1.118	1.162	1.208	1.255	1.297	1.340	1.384	1.429	1.475	1.514	1.555	1.595	1.637	1.679
	Recovery target	0.266	0.276	0.287	0.298	0.310	0.337	0.366	0.395	0.425	0.456	0.468	0.480	0.491	0.504	0.516	0.511	0.506	0.501	0.496	0.491
	Non-hazardous landfill	0.820	0.798	0.775	0.750	0.723	0.696	0.667	0.636	0.604	0.570	0.551	0.531	0.511	0.489	0.467	0.457	0.446	0.436	0.425	0.413
c&d	Recycling target	1.196	1.222	1.248	1.274	1.300	1.300	1.300	1.300	1.300	1.300	1.352	1.404	1.456	1.508	1.560	1.560	1.560	1.560	1.560	1.560
	Recovery target	0.920	0.905	0.889	0.874	0.858	0.874	0.889	0.905	0.920	0.936	0.894	0.853	0.811	0.770	0.728	0.738	0.749	0.759	0.770	0.780
	Inert landfill	0.484	0.473	0.463	0.452	0.442	0.426	0.411	0.395	0.380	0.364	0.354	0.343	0.333	0.322	0.312	0.302	0.291	0.281	0.270	0.260
hazardous	Hazardous waste	0.108	0.111	0.113	0.116	0.119	0.122	0.124	0.126	0.129	0.132	0.134	0.136	0.138	0.140	0.142	0.143	0.145	0.146	0.148	0.149

Note: If there is a LATS shortfall, denoted by a positive number, (ie insufficient allowance to landfill non-diverted waste) then the model assumes that this extra waste is recycled/composted and recovered at the same ratio as the regional targets for recycling/composting and recovery for that year.

EXISTING/PLANNED CAPACITY FOR RECYCLING, RECOVERY AND LANDFILLING AND TOTAL WASTE TONNAGES TO EACH DISPOSAL ROUTE (Million Tonnes)		2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
MSW and C&I recovery																					
	Total existing/planned MSW and C&I recovery capacity	0.779	0.779	0.779	0.779	0.779	0.779	0.779	0.779	0.779	0.779	0.779	0.779	0.779	0.779	0.779	0.779	0.779	0.779	0.779	0.779
	Surplus/deficit capacity	0.457	0.433	0.408	0.381	0.348	0.292	0.233	0.173	0.119	0.063	0.040	0.016	-0.008	-0.033	-0.058	-0.049	-0.040	-0.030	-0.019	-0.008
MSW and C&I recycling and composting																					
	Total existing/planned MSW and C&I recycling and composting capacity (Baseline: 20% of transfer capacity delivers recycling)	1.177	1.177	1.177	1.177	1.177	1.177	1.177	1.177	1.177	1.177	1.177	1.177	1.177	1.177	1.177	1.177	1.177	1.177	1.177	1.177
	Total existing/planned MSW and C&I recycling and composting capacity (Sensitivity: 5% of transfer capacity delivers recycling)	0.748	0.748	0.748	0.748	0.748	0.748	0.748	0.748	0.748	0.748	0.748	0.748	0.748	0.748	0.748	0.748	0.748	0.748	0.748	0.748
	Surplus/deficit capacity (Baseline: 20% of transfer capacity delivers recycling)	0.111	0.028	-0.058	-0.149	-0.261	-0.337	-0.413	-0.491	-0.554	-0.619	-0.678	-0.739	-0.800	-0.863	-0.929	-0.990	-1.052	-1.115	-1.179	-1.244
	Surplus/deficit capacity (Sensitivity: 5% of transfer capacity delivers recycling)	-0.318	-0.401	-0.488	-0.578	-0.691	-0.766	-0.842	-0.920	-0.983	-1.048	-1.107	-1.168	-1.229	-1.292	-1.358	-1.419	-1.481	-1.544	-1.608	-1.673
C&D recycling																					
	Total existing/planned C&D recycling capacity	0.165	0.165	0.165	0.165	0.165	0.165	0.165	0.165	0.165	0.165	0.165	0.165	0.165	0.165	0.165	0.165	0.165	0.165	0.165	0.165
	Surplus/deficit capacity	-1.031	-1.057	-1.083	-1.109	-1.135	-1.135	-1.135	-1.135	-1.135	-1.135	-1.187	-1.239	-1.291	-1.343	-1.395	-1.395	-1.395	-1.395	-1.395	-1.395
C&D recovery																					
	REGIONAL total existing/planned C&D recovery capacity	1.794	1.710	1.627	1.544	1.460	1.439	1.418	1.398	1.377	1.356	1.325	1.293	1.262	1.231	1.199	1.220	1.241	1.262	1.283	1.304
	Surplus/deficit capacity	0.873	0.806	0.738	0.670	0.602	0.566	0.529	0.493	0.456	0.420	0.430	0.440	0.451	0.461	0.471	0.482	0.492	0.503	0.513	0.524
Hazardous waste recycling																					
	Total existing/planned hazardous waste recycling capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Surplus/deficit capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hazardous waste recovery																					
	Total existing/planned hazardous waste recovery capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Surplus/deficit capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Non-hazardous landfill																					
	Available non-hazardous landfill capacity (excluding residues from MSW and C&I recovery)	7.275	5.444	3.641	1.870	0.131	-1.549	-3.161	-4.701	-6.169	-7.583	-8.943	-10.279	-11.592	-12.879	-14.141	-15.374	-16.604	-17.831	-19.056	-20.277
	Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'Incineration (non-specialist)'	7.275	5.396	3.541	1.714	-0.084	-1.830	-3.514	-5.136	-6.695	-8.209	-9.676	-11.123	-12.550	-13.955	-15.339	-16.697	-18.052	-19.402	-20.748	-22.089
	Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'MBT'	7.275	5.254	3.247	1.256	-0.717	-2.652	-4.551	-6.414	-8.239	-10.043	-11.826	-13.598	-15.361	-17.112	-18.853	-20.580	-22.299	-24.010	-25.712	-27.404
	Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'RDF'	7.275	5.405	3.561	1.745	-0.041	-1.774	-3.443	-5.049	-6.590	-8.084	-9.529	-10.954	-12.358	-13.740	-15.099	-16.433	-17.762	-19.088	-20.410	-21.727
	Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'treatment'	7.275	5.299	3.341	1.402	-0.516	-2.391	-4.221	-6.007	-7.748	-9.460	-11.142	-12.811	-14.466	-16.108	-17.735	-19.345	-20.948	-22.544	-24.132	-25.713
Inert landfill																					
	Available inert landfill capacity	29.297	28.813	28.340	27.877	27.425	26.983	26.557	26.146	25.751	25.371	25.007	24.653	24.310	23.977	23.655	23.343	23.041	22.750	22.469	22.199
	Available inert landfill capacity assuming all MSW and C&I recovery by 'Incineration (non-specialist)'	29.297	28.765	28.240	27.721	27.209	26.702	26.203	25.710	25.224	24.745	24.274	23.810	23.352	22.901	22.457	22.019	21.593	21.179	20.777	20.387
Hazardous landfill																					
	Available hazardous landfill capacity	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309

Note: The model does not contain data for the management of hazardous waste.

DATA_01: ARISINGS AND GROWTH RATES OF MSW, C&I AND HAZARDOUS WASTE (Million Tonnes)		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	Arisings of MSW in baseline year																					
	(1) Forecast regional level growth rate of MSW - per year (%)	3.0%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%
	(1) Forecast regional level growth rate of MSW - cumulative (%)	109%	112%	115%	118%	121%	124%	126%	129%	131%	134%	136%	139%	141%	143%	145%	147%	149%	151%	154%	156%	158%
	Total arisings of MSW using regional growth forecasts	0.853	0.875	0.897	0.919	0.942	0.966	0.985	1.005	1.025	1.045	1.066	1.082	1.098	1.115	1.131	1.148	1.166	1.183	1.201	1.219	1.237
	(1) Forecast sub-regional growth rate of MSW - per year (%)	3.0%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	0.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%
	(1) Forecast sub-regional level growth rate of MSW - cumulative (%)	110%	113%	116%	119%	122%	125%	127%	130%	132%	135%	138%	140%	142%	144%	145%	147%	149%	151%	153%	156%	158%
	Total arisings of MSW using sub-regional growth forecasts	0.860	0.882	0.904	0.926	0.949	0.973	0.993	1.012	1.033	1.053	1.074	1.090	1.107	1.123	1.129	1.146	1.163	1.181	1.198	1.216	1.235
c&i	Arisings of C&I in baseline year																					
	(1) Forecast regional level growth rate of C&I - per year (%)	3.3%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.0%	1.0%	1.0%	1.0%	1.0%
	(1) Forecast regional level growth rate of C&I - cumulative (%)	107%	109%	112%	115%	118%	121%	123%	126%	128%	131%	133%	135%	137%	139%	141%	144%	145%	146%	148%	149%	151%
	Total arisings of C&I using regional growth forecasts	1.827	1.872	1.919	1.967	2.016	2.067	2.108	2.150	2.193	2.237	2.282	2.316	2.351	2.386	2.422	2.458	2.483	2.507	2.532	2.558	2.583
	(1) Forecast sub-regional level growth rate of C&I - per year (%)	3.3%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.0%	1.0%	1.0%	1.0%	1.0%
	(1) Forecast sub-regional level growth rate of C&I - cumulative (%)	107%	109%	112%	115%	118%	121%	123%	126%	128%	131%	133%	135%	137%	139%	141%	144%	145%	146%	148%	149%	151%
	Total arisings of C&I using sub-regional growth forecasts	1.827	1.872	1.919	1.967	2.016	2.067	2.108	2.150	2.193	2.237	2.282	2.316	2.351	2.386	2.422	2.458	2.483	2.507	2.532	2.558	2.583
hazardous	Arisings of hazardous waste in baseline year																					
	(2) Forecast regional level growth rate of hazardous waste - per year (%)	3.3%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.0%	1.0%	1.0%	1.0%	1.0%
	Forecast regional level growth rate of hazardous waste - cumulative (%)	107%	109%	112%	115%	118%	121%	123%	126%	128%	131%	133%	135%	137%	139%	141%	144%	145%	146%	148%	149%	151%
	Total arisings of hazardous waste	0.105	0.108	0.111	0.113	0.116	0.119	0.122	0.124	0.126	0.129	0.132	0.134	0.136	0.138	0.140	0.142	0.143	0.145	0.146	0.148	0.149
	(2) Forecast sub-regional level growth rate of hazardous waste - per year (%)	3.3%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.0%	1.0%	1.0%	1.0%	1.0%
	Forecast sub regional level growth rate of hazardous waste - cumulative (%)	107%	109%	112%	115%	118%	121%	123%	126%	128%	131%	133%	135%	137%	139%	141%	144%	145%	146%	148%	149%	151%
	Total arisings of hazardous waste	0.105	0.108	0.111	0.113	0.116	0.119	0.122	0.124	0.126	0.129	0.132	0.134	0.136	0.138	0.140	0.142	0.143	0.145	0.146	0.148	0.149
c&d	Total managed C&D in baseline year																					
	(3) Forecast regional-level growth rate of managed C&D - per year (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Forecast regional-level growth rate of managed C&D - cumulative (%)	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
	(3) Total managed of C&D for the sub-region	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600

(1) Figures from SEERA updated waste capacity model by ERM in 2005.
(2) Baseline year of hazardous waste arisings is 2003 from EA Hazardous Waste Interrogator. www.environment-agency.gov.uk/apps/wastesurvey2/. ERM has assumed that growth in hazardous waste is equal to C&I waste.
(3) These data represent managed C&D waste in the sub-region, including all intra-regional and inter-regional movements. Growth is assumed to be zero from the orginal MEL study and updated modeted by ERM in 2005.
NOTE: C&D waste is not included in arisings because this was taken from survey data by Symonds 2001 which gave values for managed C&D waste.

Kent

Figure in blue represent data supplied by each sub-region for the new '2006 SEERA Capacity and Need Model'
Figures in orange represent managed waste that are used by the model to calculate results. These can be adjusted for different scenarios.

DATA_02: INTER REGIONAL MOVEMENTS OF MSW and C&I (Million Tonnes)		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw and c&i	Regional level imports of MSW and C&I waste into the SE region from London	1.76	1.716	1.672	1.628	1.584	1.54	1.454	1.368	1.282	1.196	1.11	1.064	1.018	0.972	0.926	0.88	0.86	0.84	0.82	0.8	0.78
	Proportion of regional MSW and C&I imports that go to the sub-region (%)	11.2%	11.2%	11.2%	11.2%	11.2%	11.2%	11.2%	11.2%	11.2%	11.2%	11.2%	11.2%	11.2%	11.2%	11.2%	11.2%	11.2%	11.2%	11.2%	11.2%	11.2%
	(1) Total imports of MSW and C&I from London into sub-region sent direct to landfill	0.198	0.193	0.188	0.183	0.178	0.173	0.163	0.154	0.144	0.134	0.125	0.119	0.114	0.109	0.104	0.099	0.097	0.094	0.092	0.090	0.088
msw	Proportion of total MSW and C&I imports that are MSW (%) - REGIONAL GROWTH FORECAST	32%	32%	32%	32%	32%	32%	32%	32%	32%	32%	32%	32%	32%	32%	32%	32%	32%	32%	32%	32%	32%
	Total imports of MSW into the sub-region from London - REGIONAL GROWTH FORECAST	0.063	0.061	0.060	0.058	0.057	0.055	0.052	0.049	0.046	0.043	0.040	0.038	0.036	0.035	0.033	0.031	0.031	0.030	0.030	0.029	0.028
	Proportion of total MSW and C&I imports that are MSW (%) - SUB-REGIONAL GROWTH FORECAST	32%	32%	32%	32%	32%	32%	32%	32%	32%	32%	32%	32%	32%	32%	32%	32%	32%	32%	32%	32%	32%
	Total imports of MSW into the sub-region from London - SUB-REGIONAL GROWTH FORECAST	0.063	0.062	0.060	0.059	0.057	0.055	0.052	0.049	0.046	0.043	0.040	0.038	0.037	0.035	0.033	0.031	0.031	0.030	0.030	0.029	0.028
c&i	Proportion of total MSW and C&I imports that are C&I (%) - REGIONAL GROWTH FORECAST	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%
	Total imports of C&I into the sub-region from London - REGIONAL GROWTH FORECAST	0.135	0.131	0.128	0.125	0.121	0.118	0.111	0.105	0.098	0.092	0.085	0.081	0.078	0.074	0.071	0.067	0.066	0.064	0.062	0.061	0.059
	Proportion of total MSW and C&I imports that are C&I (%) - SUB-REGIONAL GROWTH FORECAST	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%
	Total imports of C&I into the sub-region from London - SUB-REGIONAL GROWTH FORECAST	0.134	0.131	0.128	0.124	0.121	0.118	0.111	0.104	0.098	0.091	0.085	0.081	0.078	0.074	0.071	0.067	0.066	0.064	0.063	0.061	0.059

(1) Intra-regional and inter-regional movements have been excluded for MSW and C&I waste due to self-sufficiency requirements under PPS10, except for inter-regional movements from London into the sub-region. Apportionment from Policy W3 in the Plan – downloa
Note: Only a figure is available for total combined imports of MSW and C&I waste. ERM has assumed that imports of the seperate waste streams of MSW and C&I was split according to tonnage arisings of MSW and C&I in the sub-region.

DATA_03: MANAGED WASTE USED TO GENERATE RESULTS (Million Tonnes)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	0.853	0.875	0.897	0.919	0.942	0.966	0.985	1.005	1.025	1.045	1.066	1.082	1.098	1.115	1.131	1.148	1.166	1.183	1.201	1.219	1.237
msw - imports from london that are sent direct to non-hazardous landfill	0.063	0.061	0.060	0.058	0.057	0.055	0.052	0.049	0.046	0.043	0.040	0.038	0.036	0.035	0.033	0.031	0.031	0.030	0.030	0.029	0.028
c&i	1.827	1.872	1.919	1.967	2.016	2.067	2.108	2.150	2.193	2.237	2.282	2.316	2.351	2.386	2.422	2.458	2.483	2.507	2.532	2.558	2.583
c&I - imports from london that are sent direct to non-hazardous landfill	0.135	0.131	0.128	0.125	0.121	0.118	0.111	0.105	0.098	0.092	0.085	0.081	0.078	0.074	0.071	0.067	0.066	0.064	0.062	0.061	0.059
c&d	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600
hazardous	0.105	0.108	0.111	0.113	0.116	0.119	0.122	0.124	0.126	0.129	0.132	0.134	0.136	0.138	0.140	0.142	0.143	0.145	0.146	0.148	0.149

DATA_04: TARGETS (% or Million Tonnes)		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	(1) landfill (Mt)	0.428	0.414	0.393	0.366	0.331	0.290	0.258	0.226	0.193	0.185	0.177	0.168	0.160	0.152	0.144	0.135	0.135	0.135	0.135	0.135	0.135
	recovered (%)	5	6.4	7.8	9.2	10.6	12	14.4	16.8	19.2	21.6	24	24.8	25.6	26.4	27.2	28	27.2	26.4	25.6	24.8	24
	recycled and composted (%)	30	32.0	34.0	36.0	38.0	40	42.0	44.0	46.0	48.0	50	51.0	52.0	53.0	54.0	55	56.0	57.0	58.0	59.0	60
c&i	recovered (%)	14	14.2	14.4	14.6	14.8	15	16.0	17.0	18.0	19.0	20	20.2	20.4	20.6	20.8	21	20.6	20.2	19.8	19.4	19
	recycled and composted (%)	40	42.0	44.0	46.0	48.0	50	51.0	52.0	53.0	54.0	55	56.0	57.0	58.0	59.0	60	61.0	62.0	63.0	64.0	65
c&d	recovered (%)	36	35.4	34.8	34.2	33.6	33	33.6	34.2	34.8	35.4	36	34.4	32.8	31.2	29.6	28	28.4	28.8	29.2	29.6	30
	recycled (%)	45	46.0	47.0	48.0	49.0	50	50.0	50.0	50.0	50.0	50	52.0	54.0	56.0	58.0	60	60.0	60.0	60.0	60.0	60
hazardous	landfill (%)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	recovered (%)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	recycled (%)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

(1) ERM has assumed that the LATS target allowance remains constant at the 2020 value for the years beyond 2020

DATA_05: WASTE STREAM TONNAGES TO MEET TARGETS (Million Tonnes)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025

This first section of DATA_03 calculates if there is a LATS shortfall or suplus in each year. If there is a LATS shortfall (ie insufficient allowance to landfill non-diverted waste) then the model assumes that this extra waste is recycled/composted and r

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	Total MSW to be recovered and recycled/composted to meet target	0.299	0.336	0.375	0.415	0.458	0.502	0.555	0.611	0.668	0.727	0.789	0.820	0.852	0.885	0.919	0.953	0.970	0.987	1.004	1.021	1.039
	Total MSW not-diverted by targets	0.555	0.539	0.522	0.504	0.484	0.463	0.429	0.394	0.357	0.318	0.277	0.262	0.246	0.230	0.213	0.195	0.196	0.196	0.197	0.197	0.198
	Percentage of MSW that is biodegradable (% by weight)	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68
	Total BMW not-diverted by targets	0.377	0.366	0.355	0.342	0.329	0.315	0.292	0.268	0.242	0.216	0.188	0.178	0.167	0.156	0.145	0.133	0.133	0.134	0.134	0.134	0.135
	LATS shortfall (how much extra is landfilled above LATS target)	-0.050	-0.047	-0.038	-0.023	-0.002	0.025	0.034	0.042	0.049	0.031	0.012	0.010	0.007	0.004	0.001	-0.003	-0.002	-0.002	-0.001	-0.001	-0.001
	Ratio of 'recovered' to 'recycled/composted' for target (%)	14%	17%	19%	20%	22%	23%	26%	28%	29%	31%	32%	33%	33%	33%	33%	34%	33%	32%	31%	30%	29%
	Extra MSW 'recovery' needed due to LATS shortfall	0.000	0.000	0.000	0.000	0.000	*0.006*	*0.009*	*0.012*	*0.014*	*0.010*	*0.004*	*0.003*	*0.002*	*0.001*	*0.000*	0.000	0.000	0.000	0.000	0.000	0.000
	Extra MSW 'recycling/composting' needed due to LATS shortfall	0.000	0.000	0.000	0.000	0.000	*0.019*	*0.025*	*0.030*	*0.035*	*0.021*	*0.008*	*0.006*	*0.005*	*0.003*	*0.001*	0.000	0.000	0.000	0.000	0.000	0.000

The section below in DATA_03 shows the tonnages by waste to meet targets.

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	Recycling and composting target	0.256	0.280	0.305	0.331	0.358	0.405	0.439	0.473	0.506	0.523	0.541	0.558	0.576	0.594	0.612	0.632	0.653	0.674	0.697	0.719	0.742
	Recovery target	0.043	0.056	0.070	0.085	0.100	0.122	0.151	0.180	0.211	0.235	0.260	0.271	0.284	0.296	0.308	0.322	0.317	0.312	0.307	0.302	0.297
	Non-hazardous landfill	0.555	0.539	0.522	0.504	0.484	0.439	0.395	0.352	0.307	0.287	0.265	0.252	0.239	0.225	0.212	0.195	0.196	0.196	0.197	0.197	0.198
	CHECK COUNTER (should be zero)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
c&i	Recycling and composting target	0.731	0.786	0.844	0.905	0.968	1.033	1.075	1.118	1.162	1.208	1.255	1.297	1.340	1.384	1.429	1.475	1.514	1.555	1.595	1.637	1.679
	Recovery target	0.256	0.266	0.276	0.287	0.298	0.310	0.337	0.366	0.395	0.425	0.456	0.468	0.480	0.491	0.504	0.516	0.511	0.506	0.501	0.496	0.491
	Non-hazardous landfill	0.840	0.820	0.798	0.775	0.750	0.723	0.696	0.667	0.636	0.604	0.570	0.551	0.531	0.511	0.489	0.467	0.457	0.446	0.436	0.425	0.413
	CHECK COUNTER (should be zero)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
c&d	Recycling target	1.170	1.196	1.222	1.248	1.274	1.300	1.300	1.300	1.300	1.300	1.300	1.352	1.404	1.456	1.508	1.560	1.560	1.560	1.560	1.560	1.560
	Recovery target	0.936	0.920	0.905	0.889	0.874	0.858	0.874	0.889	0.905	0.920	0.936	0.894	0.853	0.811	0.770	0.728	0.738	0.749	0.759	0.770	0.780
	Inert landfill	0.494	0.484	0.473	0.463	0.452	0.442	0.426	0.411	0.395	0.380	0.364	0.354	0.343	0.333	0.322	0.312	0.302	0.291	0.281	0.270	0.260
	CHECK COUNTER (should be zero)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
hazardous	Hazardous waste	0.105	0.108	0.111	0.113	0.116	0.119	0.122	0.124	0.126	0.129	0.132	0.134	0.136	0.138	0.140	0.142	0.143	0.145	0.146	0.148	0.149

DATA_06: TOTAL WASTE TONNAGES TO MEET TARGETS (Million Tonnes)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
MSW and C&I recycling and composting target	0.987	1.066	1.149	1.236	1.326	1.439	1.514	1.591	1.668	1.731	1.796	1.855	1.916	1.977	2.040	2.106	2.167	2.229	2.292	2.356	2.422
C&D recycling target	1.170	1.196	1.222	1.248	1.274	1.300	1.300	1.300	1.300	1.300	1.300	1.352	1.404	1.456	1.508	1.560	1.560	1.560	1.560	1.560	1.560
MSW and C&I recovery target	0.298	0.322	0.346	0.372	0.398	0.432	0.488	0.546	0.606	0.660	0.716	0.739	0.763	0.787	0.812	0.838	0.828	0.819	0.809	0.799	0.788
C&D recovery target	0.936	0.920	0.905	0.889	0.874	0.858	0.874	0.889	0.905	0.920	0.936	0.894	0.853	0.811	0.770	0.728	0.738	0.749	0.759	0.770	0.780
Non-hazardous landfill	1.395	1.359	1.320	1.279	1.234	1.162	1.091	1.018	0.943	0.891	0.836	0.803	0.770	0.736	0.701	0.662	0.653	0.643	0.633	0.622	0.611
Inert landfill	0.494	0.484	0.473	0.463	0.452	0.442	0.426	0.411	0.395	0.380	0.364	0.354	0.343	0.333	0.322	0.312	0.302	0.291	0.281	0.270	0.260
Hazardous waste	0.105	0.108	0.111	0.113	0.116	0.119	0.122	0.124	0.126	0.129	0.132	0.134	0.136	0.138	0.140	0.142	0.143	0.145	0.146	0.148	0.149

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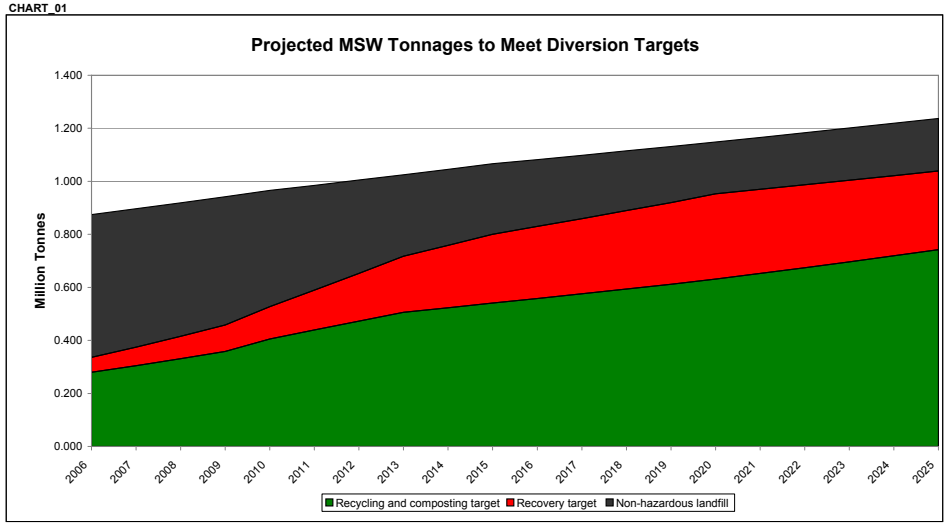
CHART_01



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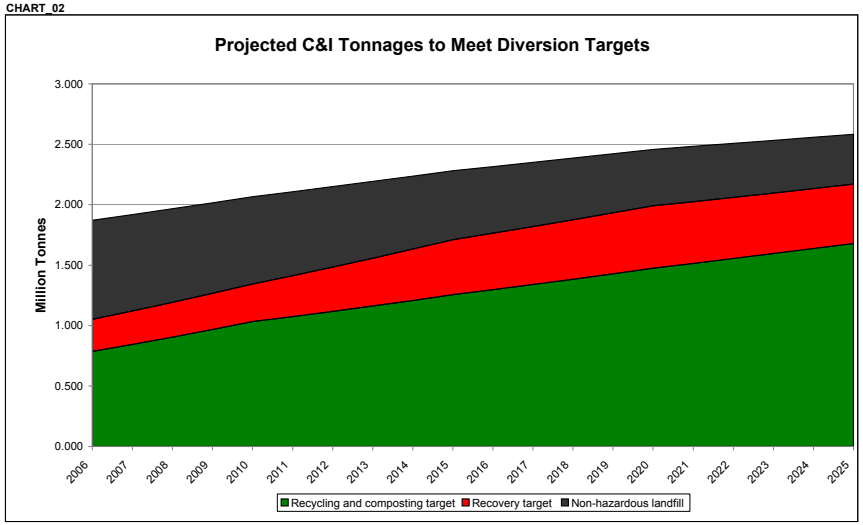

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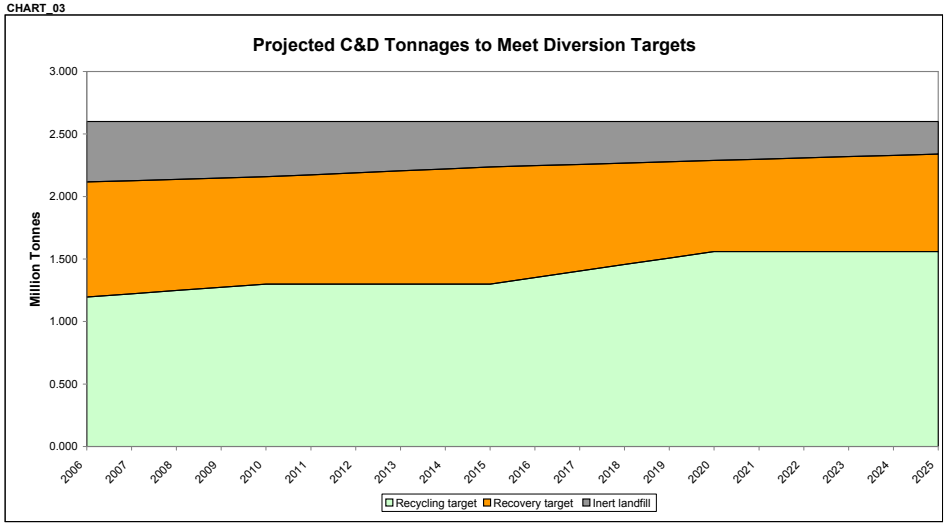

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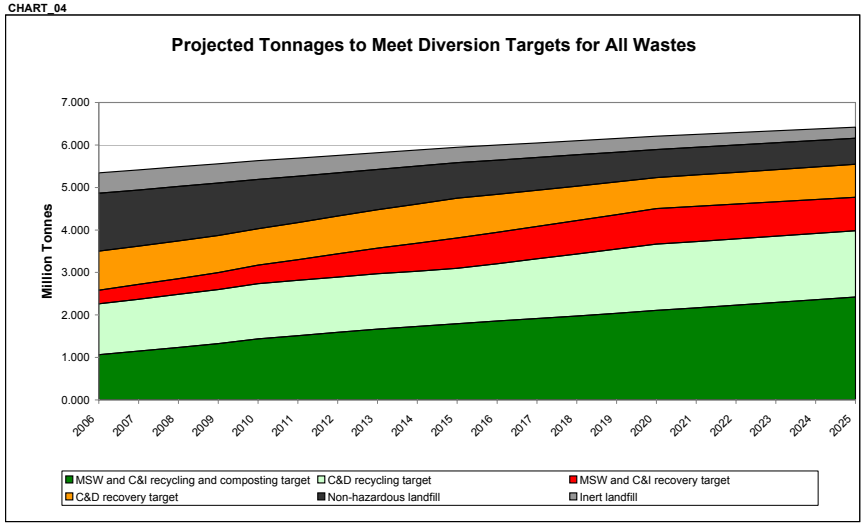

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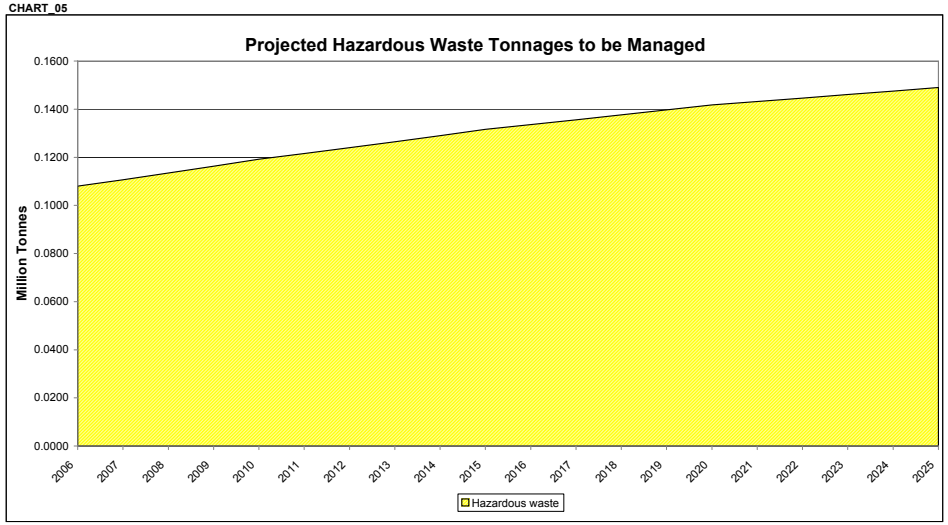
CHART_05



DATA_07: EXISTING/PLANNED CAPACITY FOR RECYCLING, RECOVERY AND LANDFILLING AND TOTAL WASTE TONNAGES TO EACH DISPOSAL ROUTE (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
MSW and C&I recovery																					
MSW and C&I incineration (non-specialist)	0.503	0.503	0.503	0.503	0.503	0.503	0.503	0.503	0.503	0.503	0.503	0.503	0.503	0.503	0.503	0.503	0.503	0.503	0.503	0.503	0.503
MSW and C&I treatment	0.276	0.276	0.276	0.276	0.276	0.276	0.276	0.276	0.276	0.276	0.276	0.276	0.276	0.276	0.276	0.276	0.276	0.276	0.276	0.276	0.276
Total existing/planned MSW and C&I recovery capacity	0.779	0.779	0.779	0.779	0.779	0.779	0.779	0.779	0.779	0.779	0.779	0.779	0.779	0.779	0.779	0.779	0.779	0.779	0.779	0.779	0.779
Total MSW waste required to meet target	0.043	0.056	0.070	0.085	0.100	0.122	0.151	0.180	0.211	0.235	0.260	0.271	0.284	0.296	0.308	0.322	0.317	0.312	0.307	0.302	0.297
Total C&I waste required to meet target	0.256	0.266	0.276	0.287	0.298	0.310	0.337	0.366	0.395	0.425	0.456	0.468	0.480	0.491	0.504	0.516	0.511	0.506	0.501	0.496	0.491
Surplus/deficit capacity	0.481	0.457	0.433	0.408	0.381	0.348	0.292	0.233	0.173	0.119	0.063	0.040	0.016	-0.008	-0.033	-0.058	-0.049	-0.040	-0.030	-0.019	-0.008
MSW and C&I recycling and composting																					
MSW and C&I recycling	0.399	0.399	0.399	0.399	0.399	0.399	0.399	0.399	0.399	0.399	0.399	0.399	0.399	0.399	0.399	0.399	0.399	0.399	0.399	0.399	0.399
MSW and C&I transfer	2.860	2.860	2.860	2.860	2.860	2.860	2.860	2.860	2.860	2.860	2.860	2.860	2.860	2.860	2.860	2.860	2.860	2.860	2.860	2.860	2.860
Total existing/planned composting capacity	0.206	0.206	0.206	0.206	0.206	0.206	0.206	0.206	0.206	0.206	0.206	0.206	0.206	0.206	0.206	0.206	0.206	0.206	0.206	0.206	0.206
(1) Total existing/planned MSW and C&I recycling and composting capacity (Baseline: 20% of transfer capacity delivers recycling)	1.177	1.177	1.177	1.177	1.177	1.177	1.177	1.177	1.177	1.177	1.177	1.177	1.177	1.177	1.177	1.177	1.177	1.177	1.177	1.177	1.177
(2) Total existing/planned MSW and C&I recycling and composting capacity (Sensitivity: 5% of transfer capacity delivers recycling)	0.748	0.748	0.748	0.748	0.748	0.748	0.748	0.748	0.748	0.748	0.748	0.748	0.748	0.748	0.748	0.748	0.748	0.748	0.748	0.748	0.748
Total MSW waste required to meet recycling and composting target	0.256	0.280	0.305	0.331	0.358	0.405	0.439	0.473	0.506	0.523	0.541	0.558	0.576	0.594	0.612	0.632	0.653	0.674	0.697	0.719	0.742
Total C&I waste required to meet recycling and composting target	0.731	0.786	0.844	0.905	0.968	1.033	1.075	1.118	1.162	1.208	1.255	1.297	1.340	1.384	1.429	1.475	1.514	1.555	1.595	1.637	1.679
Surplus/deficit capacity (Baseline: 20% of transfer capacity delivers recycling)	0.191	0.111	0.028	-0.058	-0.149	-0.261	-0.337	-0.413	-0.491	-0.554	-0.619	-0.678	-0.739	-0.800	-0.863	-0.929	-0.990	-1.052	-1.115	-1.179	-1.244
Surplus/deficit capacity (Sensitivity: 5% of transfer capacity delivers recycling)	-0.239	-0.318	-0.401	-0.488	-0.578	-0.691	-0.766	-0.842	-0.920	-0.983	-1.048	-1.107	-1.168	-1.229	-1.292	-1.358	-1.419	-1.481	-1.544	-1.608	-1.673
C&D recycling																					
Total existing/planned C&D recycling capacity	0.165	0.165	0.165	0.165	0.165	0.165	0.165	0.165	0.165	0.165	0.165	0.165	0.165	0.165	0.165	0.165	0.165	0.165	0.165	0.165	0.165
Total waste required to meet C&D recycling target	1.170	1.196	1.222	1.248	1.274	1.300	1.300	1.300	1.300	1.300	1.300	1.352	1.404	1.456	1.508	1.560	1.560	1.560	1.560	1.560	1.560
Surplus/deficit capacity	-1.005	-1.031	-1.057	-1.083	-1.109	-1.135	-1.135	-1.135	-1.135	-1.135	-1.135	-1.187	-1.239	-1.291	-1.343	-1.395	-1.395	-1.395	-1.395	-1.395	-1.395
C&D recovery																					
(3) REGIONAL total existing/planned C&D recovery capacity	1.877	1.794	1.710	1.627	1.544	1.460	1.439	1.418	1.398	1.377	1.356	1.325	1.293	1.262	1.231	1.199	1.220	1.241	1.262	1.283	1.304
Sub-regional total waste required to meet C&D recovery target	0.936	0.920	0.905	0.889	0.874	0.858	0.874	0.889	0.905	0.920	0.936	0.894	0.853	0.811	0.770	0.728	0.738	0.749	0.759	0.770	0.780
Surplus/deficit capacity	0.941	0.873	0.806	0.738	0.670	0.602	0.566	0.529	0.493	0.456	0.420	0.430	0.440	0.451	0.461	0.471	0.482	0.492	0.503	0.513	0.524
Hazardous waste recycling																					
Total existing/planned hazardous waste recycling capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total hazardous waste to be recycled	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Surplus/deficit capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hazardous waste recovery																					
Total existing/planned hazardous waste recovery capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total hazardous waste to be recovered	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Surplus/deficit capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Non-hazardous landfill																					
Available non-hazardous landfill capacity (excluding residues from MSW and C&I recovery)		7.275	5.444	3.641	1.870	0.131	-1.549	-3.161	-4.701	-6.169	-7.583	-8.943	-10.279	-11.592	-12.879	-14.141	-15.374	-16.604	-17.831	-19.056	-20.277
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'Incineration (non-specialist)'		7.275	5.396	3.541	1.714	-0.084	-1.830	-3.514	-5.136	-6.695	-8.209	-9.676	-11.123	-12.550	-13.955	-15.339	-16.697	-18.052	-19.402	-20.748	-22.089
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'MBT'		7.275	5.254	3.247	1.256	-0.717	-2.652	-4.551	-6.414	-8.239	-10.043	-11.826	-13.598	-15.361	-17.112	-18.853	-20.580	-22.299	-24.010	-25.712	-27.404
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'RDF'		7.275	5.405	3.561	1.745	-0.041	-1.774	-3.443	-5.049	-6.590	-8.084	-9.529	-10.954	-12.358	-13.740	-15.099	-16.433	-17.762	-19.088	-20.410	-21.727
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'treatment'		7.275	5.299	3.341	1.402	-0.516	-2.391	-4.221	-6.007	-7.748	-9.460	-11.142	-12.811	-14.466	-16.108	-17.735	-19.345	-20.948	-22.544	-24.132	-25.713
Total MSW and C&I waste sent direct to non-hazardous landfill		1.359	1.320	1.279	1.234	1.162	1.091	1.018	0.943	0.891	0.836	0.803	0.770	0.736	0.701	0.662	0.653	0.643	0.633	0.622	0.611
Inert landfill																					
Available inert landfill capacity		29.297	28.813	28.340	27.877	27.425	26.983	26.557	26.146	25.751	25.371	25.007	24.653	24.310	23.977	23.655	23.343	23.041	22.750	22.469	22.199
Available inert landfill capacity assuming all MSW and C&I recovery by 'Incineration (non-specialist)'		29.297	28.765	28.240	27.721	27.209	26.702	26.203	25.710	25.224	24.745	24.274	23.810	23.352	22.901	22.457	22.019	21.593	21.179	20.777	20.387
Total C&D waste sent direct to inert landfill (excludes residues from MSW and C&I recovery)	0.494	0.484	0.473	0.463	0.452	0.442	0.426	0.411	0.395	0.380	0.364	0.354	0.343	0.333	0.322	0.312	0.302	0.291	0.281	0.270	0.260
Hazardous landfill																					
Available hazardous landfill capacity		3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309
Total hazardous waste sent direct to hazardous landfill		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Other																					
Metal/ELV facility	0.973	0.975	0.975	0.975	0.975	0.975	0.975	0.975	0.975	0.975	0.975	0.975	0.975	0.975	0.975	0.975	0.975	0.975	0.975	0.975	0.975
Ignored	1.854	0.880	0.880	0.880	0.880	0.880	0.880	0.880	0.880	0.880	0.880	0.880	0.880	0.880	0.880	0.880	0.880	0.880	0.880	0.880	0.880
Closed	0.003	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

(1) ERM has assumed that 20% of the total "transfer' capacity will deliver recycling capacity
(2) ERM has assumed that 5% of the total "transfer' capacity will deliver recycling capacity
(3) Data for C&D recovery for landfill cover for the SE Region were sourced from the original MEL model, which sourced the data from Symonds (2001)
Landfill capacity data for 2005 were adapted from *Table R* in the ERM data template for each sub-region

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DATA_08: RESIDUE RATES (%)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Recovery residues (% by weight)																					
MSW and C&I incineration (non-specialist) - bottom ash	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
MSW and C&I incineration (non-specialist) - fly ash	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
MSW and C&I to MBT	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59
MSW and C&I to RDF	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
MSW and C&I treatment - non-hazardous	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45
MSW and C&I treatment - hazardous	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Hazardous waste recovery	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Recycling residues (% by weight)																					
MSW and C&I recycling	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
MSW and C&I transfer	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
MSW and C&I composting	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
C&D recycling	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Hazardous waste recycling	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Other																					
Metal/ELV facility	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Ignored	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Closed	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Note: All residues are calculated on the amount of waste arising not on the maount of capacity available. This is complaince with the self-sufficiency requirements of PPS10.

DATA_09: TOTAL RESIDUE (Million Tonnes)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Recovery residues (of waste managed):																					
MSW and C&I incineration (non-specialist) - bottom ash	0.090	0.097	0.104	0.112	0.119	0.129	0.146	0.164	0.182	0.198	0.215	0.222	0.229	0.236	0.244	0.251	0.249	0.246	0.243	0.240	0.236
MSW and C&I incineration (non-specialist) - fly ash	0.009	0.010	0.010	0.011	0.012	0.013	0.015	0.016	0.018	0.020	0.021	0.022	0.023	0.024	0.024	0.025	0.025	0.025	0.024	0.024	0.024
MSW and C&I to MBT	0.176	0.190	0.204	0.219	0.235	0.255	0.288	0.322	0.358	0.390	0.422	0.436	0.450	0.464	0.479	0.494	0.489	0.483	0.477	0.471	0.465
MSW and C&I to RDF	0.036	0.039	0.042	0.045	0.048	0.052	0.059	0.066	0.073	0.079	0.086	0.089	0.092	0.094	0.097	0.101	0.099	0.098	0.097	0.096	0.095
MSW and C&I treatment - non-hazardous	0.134	0.145	0.156	0.167	0.179	0.194	0.220	0.246	0.273	0.297	0.322	0.333	0.343	0.354	0.365	0.377	0.373	0.368	0.364	0.359	0.354
MSW and C&I treatment - hazardous	0.015	0.016	0.017	0.019	0.020	0.022	0.024	0.027	0.030	0.033	0.036	0.037	0.038	0.039	0.041	0.042	0.041	0.041	0.040	0.040	0.039
Hazardous waste recovery	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Recycling residues (of waste managed):																					
MSW and C&I recycling and composting	0.148	0.160	0.172	0.185	0.199	0.216	0.227	0.239	0.250	0.260	0.269	0.278	0.287	0.297	0.306	0.316	0.325	0.334	0.344	0.353	0.363
C&D recycling	0.117	0.120	0.122	0.125	0.127	0.130	0.130	0.130	0.130	0.130	0.130	0.135	0.140	0.146	0.151	0.156	0.156	0.156	0.156	0.156	0.156
Hazardous waste recycling	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Note: All residues are calculated on the amount of waste arising not on the maount of capacity available. This is complaince with the self-sufficiency requirements of PPS10.

DATA_10: TOTAL MSW AND C&I RESIDUE FROM RECYCLING SENT TO NON-HAZARDOUS LANDFILL (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Total MSW and C&I recycling and composting residue sent to non-hazardous landfill	0.265	0.280	0.295	0.310	0.326	0.346	0.357	0.369	0.380	0.390	0.399	0.413	0.428	0.442	0.457	0.472	0.481	0.490	0.500	0.509	0.519

DATA_11: TOTAL MSW AND C&I RESIDUE FROM RECOVERY SENT TO NON-HAZARDOUS LANDFILL AND C&D RECYCLING (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
SCENARIO 1 - Assumes all recovery is by 'Non-specialist incineration' (based on total recovery capacity)																					
(1) Total MSW and C&I residue sent to non-hazardous landfill assuming all MSW and C&I recovery by 'Non-specialist incineration'	0.045	0.048	0.052	0.056	0.060	0.065	0.073	0.082	0.091	0.099	0.107	0.111	0.114	0.118	0.122	0.126	0.124	0.123	0.121	0.120	0.118
(1) Total MSW and C&I residue sent to inert landfill assuming all MSW and C&I recovery by 'Non-specialist incineration'	0.045	0.048	0.052	0.056	0.060	0.065	0.073	0.082	0.091	0.099	0.107	0.111	0.114	0.118	0.122	0.126	0.124	0.123	0.121	0.120	0.118
SCENARIO 2 - Assumes all recovery is by 'MBT' (based on total recovery capacity)																					
Total MSW and C&I residue sent to non-hazardous landfill	0.176	0.190	0.204	0.219	0.235	0.255	0.288	0.322	0.358	0.390	0.422	0.436	0.450	0.464	0.479	0.494	0.489	0.483	0.477	0.471	0.465
SCENARIO 3 - Assumes all recovery is by 'RDF' (based on total recovery capacity)																					
Total MSW and C&I residue sent to non-hazardous landfill	0.036	0.039	0.042	0.045	0.048	0.052	0.059	0.066	0.073	0.079	0.086	0.089	0.092	0.094	0.097	0.101	0.099	0.098	0.097	0.096	0.095
SCENARIO 4 - Assumes all recovery is by 'treatment' (based on total recovery capacity)																					
(2) Total MSW and C&I residue sent to non-hazardous landfill	0.134	0.145	0.156	0.167	0.179	0.194	0.220	0.246	0.273	0.297	0.322	0.333	0.343	0.354	0.365	0.377	0.373	0.368	0.364	0.359	0.354

(1) It was assumed that 50% of residue from 'non-specialist incineration' is sent to non-hazardous landfill and 50% is sent to inert landfill. In the original model assumptions developed MEL 50% was assumed to go to C&D recycling, rather than to inert landfi

DATA_12: TONNAGES OF C&D REUSED ON NON-HAZARDOUS AND INERT LANDFILL (Million Tonnes)

(1) C&D reused on landfill sites	39 %
(1) C&D reused on exempt sites	61 %
(1) C&D reused on landfill sites sent to 'non-haz landfill'	30 %
(1) C&D reused on landfill sites sent to 'inert landfill'	70 %

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
c&d	Total C&D reused on non-hazardous landfill	0.109	0.107	0.105	0.103	0.102	0.100	0.102	0.103	0.105	0.107	0.109	0.104	0.099	0.094	0.090	0.085	0.086	0.087	0.088	0.090	0.091
	Total reused C&D on inert landfill	0.254	0.250	0.246	0.241	0.237	0.233	0.237	0.241	0.246	0.250	0.254	0.243	0.232	0.220	0.209	0.198	0.200	0.203	0.206	0.209	0.212

(1) C&D reuse rates based on original model assumptions developed MEL
NOTE: C&D reuse on inert and non-hazardous landfill is not included within the charts because it has been assumed that data supplied by each sub-region has accounted for C&D reuse as an engineering material.

DATA_13: TOTAL MSW AND C&I RESIDUE FROM RECYCLING SENT TO HAZARDOUS LANDFILL (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Total MSW and C&I recycling and composting residue sent to hazardous landfill	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

DATA_14: TOTAL MSW AND C&I RESIDUE FROM RECOVERY SENT TO HAZARDOUS LANDFILL (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
SCENARIO 1 - Assumes all recovery is by 'Non-specialist incineration' (based on total recovery capacity)																					
Total MSW and C&I residue sent to hazardous landfill assuming all MSW and C&I recovery by 'Non-specialist incineration'	0.009	0.010	0.010	0.011	0.012	0.013	0.015	0.016	0.018	0.020	0.021	0.022	0.023	0.024	0.024	0.025	0.025	0.025	0.024	0.024	0.024
SCENARIO 2 - Assumes all recovery is by 'MBT' (based on total recovery capacity)																					
Total MSW and C&I residue sent to hazardous landfill	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SCENARIO 3 - Assumes all recovery is by 'RDF' (based on total recovery capacity)																					
Total MSW and C&I residue sent to hazardous landfill	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SCENARIO 4 - Assumes all recovery is by 'treatment' (based on total recovery capacity)																					
Total MSW and C&I residue sent to hazardous landfill	0.015	0.016	0.017	0.019	0.020	0.022	0.024	0.027	0.030	0.033	0.036	0.037	0.038	0.039	0.041	0.042	0.041	0.041	0.040	0.040	0.039

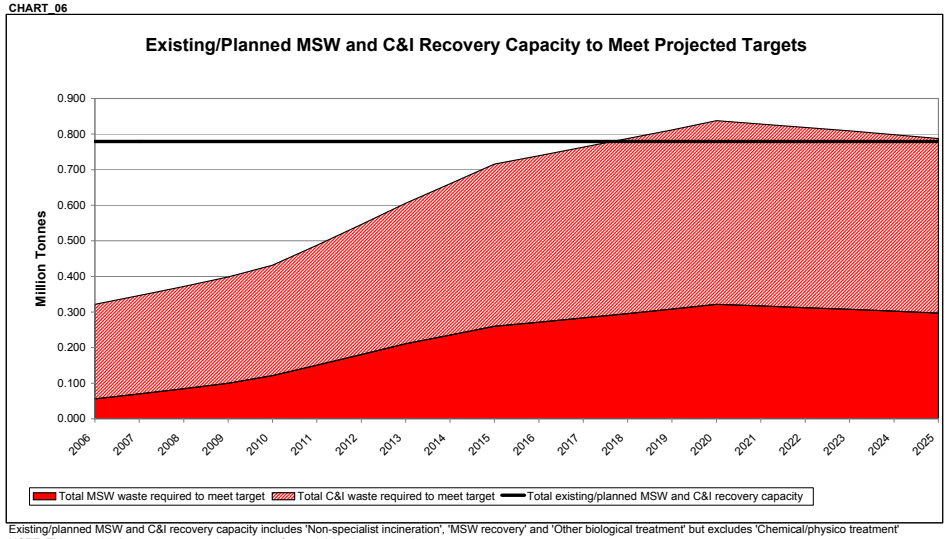
NOTE: This element of the model is redundant. There is currently no hazardous waste capacity figures to generate a chart of managed waste versus available capacity.

DATA_15: TOTAL HAZARDOUS WASTE RESIDUE FROM RECOVERY AND RECYCLING SENT TO HAZARDOUS LANDFILL (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Total hazardous waste recycling and recovery residue sent to hazardous landfill	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

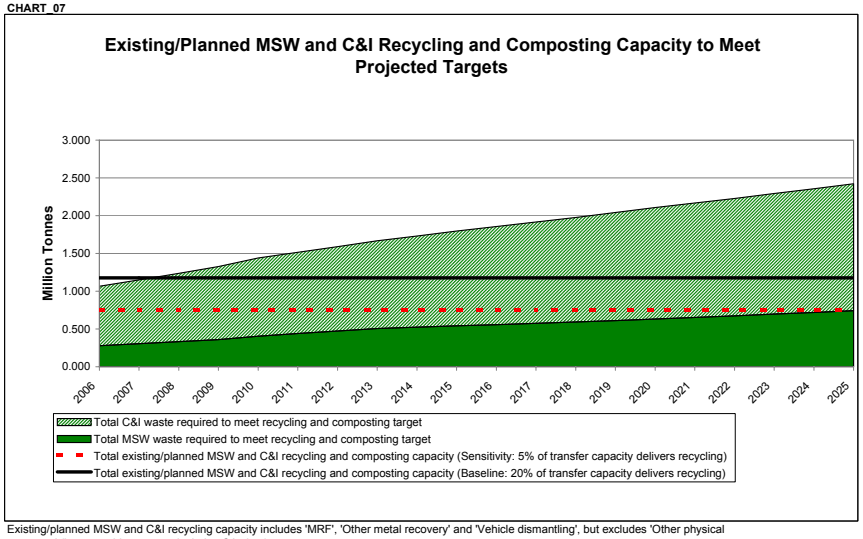
Kent

CHART_06



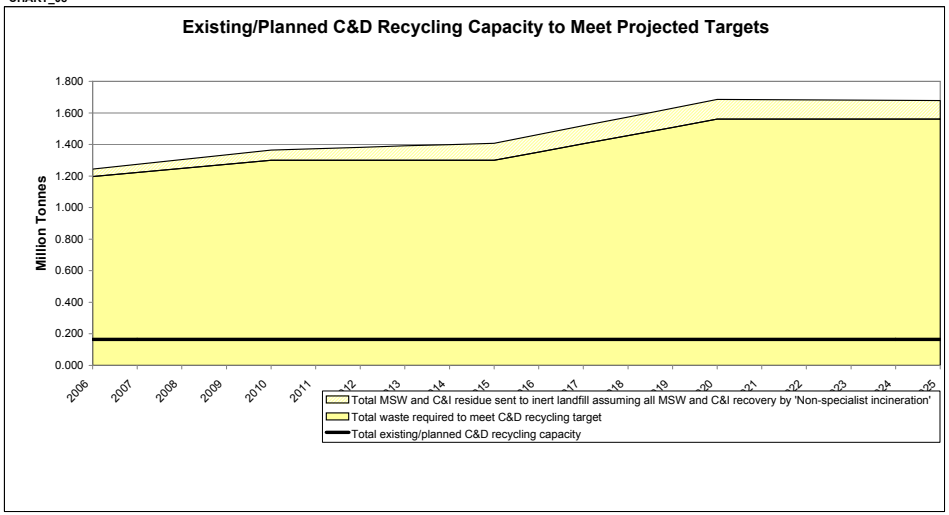
Existing/planned MSW and C&I recovery capacity includes 'Non-specialist incineration', 'MSW recovery' and 'Other biological treatment' but excludes 'Chemical/physico treatment'
NOTE: This capacity does not represent the quantity of material that is recovered.
NOTE: The original MEL model assumes that 'MSW recovery' capacity is incineration - but this is not made explicit.

CHART_07



Existing/planned MSW and C&I recycling capacity includes 'MRF', 'Other metal recovery' and 'Vehicle dismantling', but excludes 'Other physical treatment' (because this category includes CA sites)
NOTE: This capacity does not represent the quantity of material that is recycled and composted.

CHART_08



Kent

CHART_09

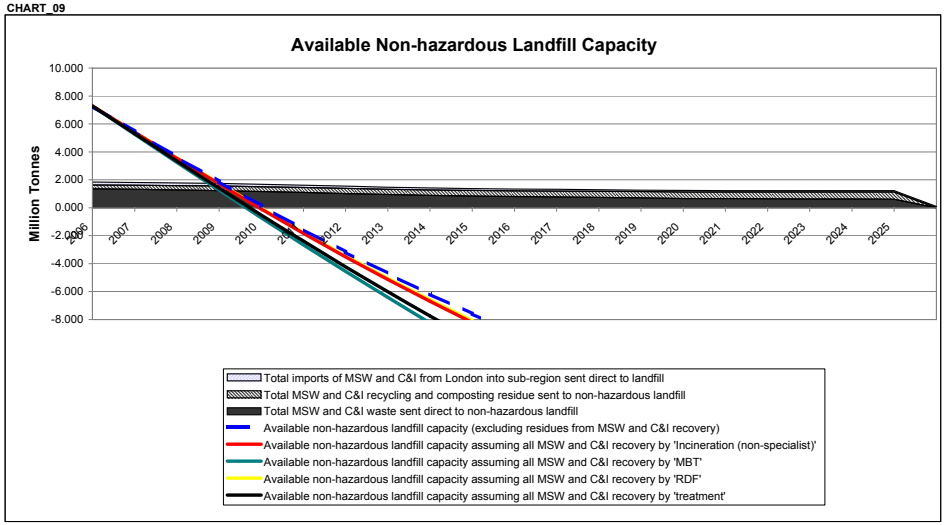
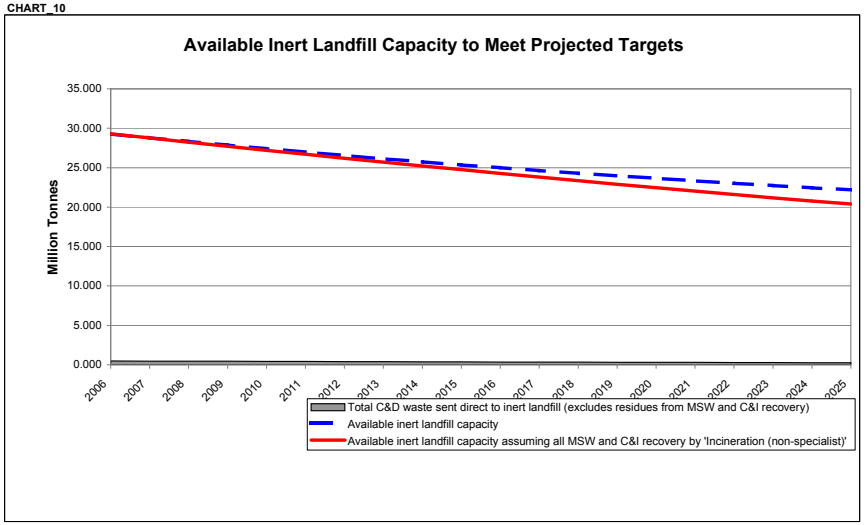


CHART_10



Kent

SUMMARY DATA AND RESULTS FOR KENT

MANAGED WASTE USED TO GENERATE RESULTS (Million Tonnes)	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	0.875	0.897	0.919	0.942	0.966	0.985	1.005	1.025	1.045	1.066	1.082	1.098	1.115	1.131	1.148	1.166	1.183	1.201	1.219	1.237
msw - imports from london that are sent direct to non-hazardous landfill	0.061	0.060	0.058	0.057	0.055	0.052	0.049	0.046	0.043	0.040	0.038	0.036	0.035	0.033	0.031	0.031	0.030	0.030	0.029	0.028
c&i	1.872	1.919	1.967	2.016	2.067	2.108	2.150	2.193	2.237	2.282	2.316	2.351	2.386	2.422	2.458	2.483	2.507	2.532	2.558	2.583
c&i - imports from london that are sent direct to non-hazardous landfill	0.131	0.128	0.125	0.121	0.118	0.111	0.105	0.098	0.092	0.085	0.081	0.078	0.074	0.071	0.067	0.066	0.064	0.062	0.061	0.059
c&d	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600
hazardous	0.108	0.111	0.113	0.116	0.119	0.122	0.124	0.126	0.129	0.132	0.134	0.136	0.138	0.140	0.142	0.143	0.145	0.146	0.148	0.149

WASTE STREAM TONNAGES TO MEET TARGETS (Million Tonnes)		2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	LATS shortfall (how much extra is landfilled above LATS target)	-0.047	-0.038	-0.023	-0.002	0.025	0.034	0.042	0.049	0.031	0.012	0.010	0.007	0.004	0.001	-0.003	-0.002	-0.002	-0.001	-0.001	-0.001
	Recycling and composting target	0.280	0.305	0.331	0.358	0.405	0.439	0.473	0.506	0.523	0.541	0.558	0.576	0.594	0.612	0.632	0.653	0.674	0.697	0.719	0.742
	Recovery target	0.056	0.070	0.085	0.100	0.122	0.151	0.180	0.211	0.235	0.260	0.271	0.284	0.296	0.308	0.322	0.317	0.312	0.307	0.302	0.297
	Non-hazardous landfill	0.539	0.522	0.504	0.484	0.439	0.395	0.352	0.307	0.287	0.265	0.252	0.239	0.225	0.212	0.195	0.196	0.196	0.197	0.197	0.198
c&i	Recycling and composting target	0.786	0.844	0.905	0.968	1.033	1.075	1.118	1.162	1.208	1.255	1.297	1.340	1.384	1.429	1.475	1.514	1.555	1.595	1.637	1.679
	Recovery target	0.266	0.276	0.287	0.298	0.310	0.337	0.366	0.395	0.425	0.456	0.468	0.480	0.491	0.504	0.516	0.511	0.506	0.501	0.496	0.491
	Non-hazardous landfill	0.820	0.798	0.775	0.750	0.723	0.696	0.667	0.636	0.604	0.570	0.551	0.531	0.511	0.489	0.467	0.457	0.446	0.436	0.425	0.413
c&d	Recycling target	1.196	1.222	1.248	1.274	1.300	1.300	1.300	1.300	1.300	1.300	1.352	1.404	1.456	1.508	1.560	1.560	1.560	1.560	1.560	1.560
	Recovery target	0.920	0.905	0.889	0.874	0.858	0.874	0.889	0.905	0.920	0.936	0.894	0.853	0.811	0.770	0.728	0.738	0.749	0.759	0.770	0.780
	Inert landfill	0.484	0.473	0.463	0.452	0.442	0.426	0.411	0.395	0.380	0.364	0.354	0.343	0.333	0.322	0.312	0.302	0.291	0.281	0.270	0.260
hazardous	Hazardous waste	0.108	0.111	0.113	0.116	0.119	0.122	0.124	0.126	0.129	0.132	0.134	0.136	0.138	0.140	0.142	0.143	0.145	0.146	0.148	0.149

Note: If there is a LATS shortfall, denoted by a positive number, (ie insufficient allowance to landfill non-diverted waste) then the model assumes that this extra waste is recycled/composted and recovered at the same ratio as the regional targets for recycling/composting and recovery for that year.

EXISTING/PLANNED CAPACITY FOR RECYCLING, RECOVERY AND LANDFILLING AND TOTAL WASTE TONNAGES TO EACH DISPOSAL ROUTE (Million Tonnes)		2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
MSW and C&I recovery																					
	Total existing/planned MSW and C&I recovery capacity	0.779	0.779	0.779	0.779	0.779	0.779	0.779	0.779	0.779	0.779	0.779	0.779	0.779	0.779	0.779	0.779	0.779	0.779	0.779	0.779
	Surplus/deficit capacity	0.457	0.433	0.408	0.381	0.348	0.292	0.233	0.173	0.119	0.063	0.040	0.016	-0.008	-0.033	-0.058	-0.049	-0.040	-0.030	-0.019	-0.008
MSW and C&I recycling and composting																					
	Total existing/planned MSW and C&I recycling and composting capacity (Baseline: 20% of transfer capacity delivers recycling)	1.177	1.177	1.177	1.177	1.177	1.177	1.177	1.177	1.177	1.177	1.177	1.177	1.177	1.177	1.177	1.177	1.177	1.177	1.177	1.177
	Total existing/planned MSW and C&I recycling and composting capacity (Sensitivity: 5% of transfer capacity delivers recycling)	0.748	0.748	0.748	0.748	0.748	0.748	0.748	0.748	0.748	0.748	0.748	0.748	0.748	0.748	0.748	0.748	0.748	0.748	0.748	0.748
	Surplus/deficit capacity (Baseline: 20% of transfer capacity delivers recycling)	0.111	0.028	-0.058	-0.149	-0.261	-0.337	-0.413	-0.491	-0.554	-0.619	-0.678	-0.739	-0.800	-0.863	-0.929	-0.990	-1.052	-1.115	-1.179	-1.244
	Surplus/deficit capacity (Sensitivity: 5% of transfer capacity delivers recycling)	-0.318	-0.401	-0.488	-0.578	-0.691	-0.766	-0.842	-0.920	-0.983	-1.048	-1.107	-1.168	-1.229	-1.292	-1.358	-1.419	-1.481	-1.544	-1.608	-1.673
C&D recycling																					
	Total existing/planned C&D recycling capacity	0.165	0.165	0.165	0.165	0.165	0.165	0.165	0.165	0.165	0.165	0.165	0.165	0.165	0.165	0.165	0.165	0.165	0.165	0.165	0.165
	Surplus/deficit capacity	-1.031	-1.057	-1.083	-1.109	-1.135	-1.135	-1.135	-1.135	-1.135	-1.135	-1.187	-1.239	-1.291	-1.343	-1.395	-1.395	-1.395	-1.395	-1.395	-1.395
C&D recovery																					
	REGIONAL total existing/planned C&D recovery capacity	1.794	1.710	1.627	1.544	1.460	1.439	1.418	1.398	1.377	1.356	1.325	1.293	1.262	1.231	1.199	1.220	1.241	1.262	1.283	1.304
	Surplus/deficit capacity	0.873	0.806	0.738	0.670	0.602	0.566	0.529	0.493	0.456	0.420	0.430	0.440	0.451	0.461	0.471	0.482	0.492	0.503	0.513	0.524
Hazardous waste recycling																					
	Total existing/planned hazardous waste recycling capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Surplus/deficit capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hazardous waste recovery																					
	Total existing/planned hazardous waste recovery capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Surplus/deficit capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Non-hazardous landfill																					
	Available non-hazardous landfill capacity (excluding residues from MSW and C&I recovery)	7.275	5.444	3.641	1.870	0.131	-1.549	-3.161	-4.701	-6.169	-7.583	-8.943	-10.279	-11.592	-12.879	-14.141	-15.374	-16.604	-17.831	-19.056	-20.277
	Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'Incineration (non-specialist)'	7.275	5.396	3.541	1.714	-0.084	-1.830	-3.514	-5.136	-6.695	-8.209	-9.676	-11.123	-12.550	-13.955	-15.339	-16.697	-18.052	-19.402	-20.748	-22.089
	Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'MBT'	7.275	5.254	3.247	1.256	-0.717	-2.652	-4.551	-6.414	-8.239	-10.043	-11.826	-13.598	-15.361	-17.112	-18.853	-20.580	-22.299	-24.010	-25.712	-27.404
	Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'RDF'	7.275	5.405	3.561	1.745	-0.041	-1.774	-3.443	-5.049	-6.590	-8.084	-9.529	-10.954	-12.358	-13.740	-15.099	-16.433	-17.762	-19.088	-20.410	-21.727
	Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'treatment'	7.275	5.299	3.341	1.402	-0.516	-2.391	-4.221	-6.007	-7.748	-9.460	-11.142	-12.811	-14.466	-16.108	-17.735	-19.345	-20.948	-22.544	-24.132	-25.713
Inert landfill																					
	Available inert landfill capacity	29.297	28.813	28.340	27.877	27.425	26.983	26.557	26.146	25.751	25.371	25.007	24.653	24.310	23.977	23.655	23.343	23.041	22.750	22.469	22.199
	Available inert landfill capacity assuming all MSW and C&I recovery by 'Incineration (non-specialist)'	29.297	28.765	28.240	27.721	27.209	26.702	26.203	25.710	25.224	24.745	24.274	23.810	23.352	22.901	22.457	22.019	21.593	21.179	20.777	20.387
Hazardous landfill																					
	Available hazardous landfill capacity	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309

Note: The model does not contain data for the management of hazardous waste.

DATA_01: ARISINGS AND GROWTH RATES OF MSW, C&I AND HAZARDOUS WASTE (Million Tonnes)		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	Arisings of MSW in baseline year																					
	(1) Forecast regional level growth rate of MSW - per year (%)	3.0%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%
	(1) Forecast regional level growth rate of MSW - cumulative (%)	109%	112%	115%	118%	121%	124%	126%	129%	131%	134%	136%	139%	141%	143%	145%	147%	149%	151%	154%	156%	158%
	Total arisings of MSW using regional growth forecasts	0.853	0.875	0.897	0.919	0.942	0.966	0.985	1.005	1.025	1.045	1.066	1.082	1.098	1.115	1.131	1.148	1.166	1.183	1.201	1.219	1.237
	(1) Forecast sub-regional growth rate of MSW - per year (%)	3.0%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	0.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%
	(1) Forecast sub-regional level growth rate of MSW - cumulative (%)	110%	113%	116%	119%	122%	125%	127%	130%	132%	135%	138%	140%	142%	144%	145%	147%	149%	151%	153%	156%	158%
	Total arisings of MSW using sub-regional growth forecasts	0.860	0.882	0.904	0.926	0.949	0.973	0.993	1.012	1.033	1.053	1.074	1.090	1.107	1.123	1.129	1.146	1.163	1.181	1.198	1.216	1.235
c&i	Arisings of C&I in baseline year																					
	(1) Forecast regional level growth rate of C&I - per year (%)	3.3%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.0%	1.0%	1.0%	1.0%	1.0%
	(1) Forecast regional level growth rate of C&I - cumulative (%)	107%	109%	112%	115%	118%	121%	123%	126%	128%	131%	133%	135%	137%	139%	141%	144%	145%	146%	148%	149%	151%
	Total arisings of C&I using regional growth forecasts	1.827	1.872	1.919	1.967	2.016	2.067	2.108	2.150	2.193	2.237	2.282	2.316	2.351	2.386	2.422	2.458	2.483	2.507	2.532	2.558	2.583
	(1) Forecast sub-regional level growth rate of C&I - per year (%)	3.3%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.0%	1.0%	1.0%	1.0%	1.0%
	(1) Forecast sub-regional level growth rate of C&I - cumulative (%)	107%	109%	112%	115%	118%	121%	123%	126%	128%	131%	133%	135%	137%	139%	141%	144%	145%	146%	148%	149%	151%
	Total arisings of C&I using sub-regional growth forecasts	1.827	1.872	1.919	1.967	2.016	2.067	2.108	2.150	2.193	2.237	2.282	2.316	2.351	2.386	2.422	2.458	2.483	2.507	2.532	2.558	2.583
hazardous	Arisings of hazardous waste in baseline year																					
	(2) Forecast regional level growth rate of hazardous waste - per year (%)	3.3%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.0%	1.0%	1.0%	1.0%	1.0%
	Forecast regional level growth rate of hazardous waste - cumulative (%)	107%	109%	112%	115%	118%	121%	123%	126%	128%	131%	133%	135%	137%	139%	141%	144%	145%	146%	148%	149%	151%
	Total arisings of hazardous waste	0.105	0.108	0.111	0.113	0.116	0.119	0.122	0.124	0.126	0.129	0.132	0.134	0.136	0.138	0.140	0.142	0.143	0.145	0.146	0.148	0.149
	(2) Forecast sub-regional level growth rate of hazardous waste - per year (%)	3.3%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.0%	1.0%	1.0%	1.0%	1.0%
	Forecast sub regional level growth rate of hazardous waste - cumulative (%)	107%	109%	112%	115%	118%	121%	123%	126%	128%	131%	133%	135%	137%	139%	141%	144%	145%	146%	148%	149%	151%
	Total arisings of hazardous waste	0.105	0.108	0.111	0.113	0.116	0.119	0.122	0.124	0.126	0.129	0.132	0.134	0.136	0.138	0.140	0.142	0.143	0.145	0.146	0.148	0.149
c&d	Total managed C&D in baseline year																					
	(3) Forecast regional-level growth rate of managed C&D - per year (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Forecast regional-level growth rate of managed C&D - cumulative (%)	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
	(3) Total managed of C&D for the sub-region	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600

(1) Figures from SEERA updated waste capacity model by ERM in 2005.
(2) Baseline year of hazardous waste arisings is 2003 from EA Hazardous Waste Interrogator. www.environment-agency.gov.uk/apps/wastesurvey2/. ERM has assumed that growth in hazardous waste is equal to C&I waste.
(3) These data represent managed C&D waste in the sub-region, including all intra-regional and inter-regional movements. Growth is assumed to be zero from the orginal MEL study and updated modeted by ERM in 2005.
NOTE: C&D waste is not included in arisings because this was taken from survey data by Symonds 2001 which gave values for managed C&D waste.

Medway

Figure in blue represent data supplied by each sub-region for the new '2006 SEERA Capacity and Need Model'
Figures in orange represent managed waste that are used by the model to calculate results. These can be adjusted for different scenarios.

DATA_02: INTER REGIONAL MOVEMENTS OF MSW and C&I (Million Tonnes)		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw and c&i	Regional level imports of MSW and C&I waste into the SE region from London	1.76	1.716	1.672	1.628	1.584	1.54	1.454	1.368	1.282	1.196	1.11	1.064	1.018	0.972	0.926	0.88	0.86	0.84	0.82	0.8	0.78
	Proportion of regional MSW and C&I imports that go to the sub-region (%)	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%
	(1) Total imports of MSW and C&I from London into sub-region sent direct to landfill	0.017	0.017	0.016	0.016	0.015	0.015	0.014	0.013	0.012	0.012	0.011	0.010	0.010	0.009	0.009	0.009	0.008	0.008	0.008	0.008	0.008
msw	Proportion of total MSW and C&I imports that are MSW (%) - REGIONAL GROWTH FORECAST	59%	59%	59%	59%	59%	59%	59%	59%	59%	59%	59%	59%	59%	59%	59%	59%	59%	59%	59%	59%	59%
	Total imports of MSW into the sub-region from London - REGIONAL GROWTH FORECAST	0.010	0.010	0.010	0.009	0.009	0.009	0.008	0.008	0.007	0.007	0.006	0.006	0.006	0.006	0.005	0.005	0.005	0.005	0.005	0.005	0.004
	Proportion of total MSW and C&I imports that are MSW (%) - SUB-REGIONAL GROWTH FORECAST	58%	58%	58%	58%	58%	58%	58%	58%	58%	58%	58%	58%	58%	58%	58%	58%	59%	59%	59%	59%	60%
	Total imports of MSW into the sub-region from London - SUB-REGIONAL GROWTH FORECAST	0.010	0.010	0.009	0.009	0.009	0.009	0.008	0.008	0.007	0.007	0.006	0.006	0.006	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
c&i	Proportion of total MSW and C&I imports that are C&I (%) - REGIONAL GROWTH FORECAST	41%	41%	41%	41%	41%	41%	41%	41%	41%	41%	41%	41%	41%	41%	41%	41%	41%	41%	41%	41%	41%
	Total imports of C&I into the sub-region from London - REGIONAL GROWTH FORECAST	0.007	0.007	0.007	0.007	0.006	0.006	0.006	0.005	0.005	0.005	0.004	0.004	0.004	0.004	0.004	0.004	0.003	0.003	0.003	0.003	0.003
	Proportion of total MSW and C&I imports that are C&I (%) - SUB-REGIONAL GROWTH FORECAST	42%	42%	42%	42%	42%	42%	42%	42%	42%	42%	42%	42%	42%	42%	42%	42%	41%	41%	41%	41%	40%
	Total imports of C&I into the sub-region from London - SUB-REGIONAL GROWTH FORECAST	0.007	0.007	0.007	0.007	0.006	0.006	0.006	0.006	0.005	0.005	0.005	0.004	0.004	0.004	0.004	0.004	0.003	0.003	0.003	0.003	0.003

(1) Intra-regional and inter-regional movements have been excluded for MSW and C&I waste due to self-sufficiency requirements under PPS10, except for inter-regional movements from London into the sub-region. Apportionment from Policy W3 in the Plan – downloa
Note: Only a figure is available for total combined imports of MSW and C&I waste. ERM has assumed that imports of the seperate waste streams of MSW and C&I was split according to tonnage arisings of MSW and C&I in the sub-region.

DATA_03: MANAGED WASTE USED TO GENERATE RESULTS (Million Tonnes)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	0.134	0.137	0.141	0.144	0.148	0.152	0.155	0.158	0.161	0.164	0.167	0.170	0.173	0.175	0.178	0.180	0.183	0.186	0.189	0.191	0.194
msw - imports from london that are sent direct to non-hazardous landfill	0.010	0.010	0.010	0.009	0.009	0.009	0.008	0.008	0.007	0.007	0.006	0.006	0.006	0.006	0.005	0.005	0.005	0.005	0.005	0.005	0.004
c&i	0.094	0.096	0.099	0.101	0.104	0.106	0.108	0.111	0.113	0.115	0.117	0.119	0.121	0.123	0.125	0.126	0.128	0.129	0.130	0.132	0.133
c&I - imports from london that are sent direct to non-hazardous landfill	0.007	0.007	0.007	0.007	0.006	0.006	0.006	0.005	0.005	0.005	0.004	0.004	0.004	0.004	0.004	0.004	0.003	0.003	0.003	0.003	0.003
c&d	0.332	0.332	0.332	0.332	0.332	0.332	0.332	0.332	0.332	0.332	0.332	0.332	0.332	0.332	0.332	0.332	0.332	0.332	0.332	0.332	0.332
hazardous	0.015	0.016	0.016	0.016	0.017	0.017	0.018	0.018	0.018	0.019	0.019	0.019	0.020	0.020	0.020	0.021	0.021	0.021	0.021	0.021	0.022

DATA_04: TARGETS (% or Million Tonnes)		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	(1) landfill (Mt)	0.081	0.078	0.074	0.068	0.061	0.053	0.047	0.041	0.035	0.034	0.032	0.031	0.029	0.028	0.026	0.025	0.025	0.025	0.025	0.025	0.025
	recovered (%)	5	6.4	7.8	9.2	10.6	12	14.4	16.8	19.2	21.6	24	24.8	25.6	26.4	27.2	28	27.2	26.4	25.6	24.8	24
	recycled and composted (%)	30	32.0	34.0	36.0	38.0	40	42.0	44.0	46.0	48.0	50	51.0	52.0	53.0	54.0	55	56.0	57.0	58.0	59.0	60
c&i	recovered (%)	14	14.2	14.4	14.6	14.8	15	16.0	17.0	18.0	19.0	20	20.2	20.4	20.6	20.8	21	20.6	20.2	19.8	19.4	19
	recycled and composted (%)	40	42.0	44.0	46.0	48.0	50	51.0	52.0	53.0	54.0	55	56.0	57.0	58.0	59.0	60	61.0	62.0	63.0	64.0	65
c&d	recovered (%)	36	35.4	34.8	34.2	33.6	33	33.6	34.2	34.8	35.4	36	34.4	32.8	31.2	29.6	28	28.4	28.8	29.2	29.6	30
	recycled (%)	45	46.0	47.0	48.0	49.0	50	50.0	50.0	50.0	50.0	50	52.0	54.0	56.0	58.0	60	60.0	60.0	60.0	60.0	60
hazardous	landfill (%)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	recovered (%)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	recycled (%)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

(1) ERM has assumed that the LATS target allowance remains constant at the 2020 value for the years beyond 2020

DATA_05: WASTE STREAM TONNAGES TO MEET TARGETS (Million Tonnes)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025

This first section of DATA_03 calculates if there is a LATS shortfall or suplus in each year. If there is a LATS shortfall (ie insufficient allowance to landfill non-diverted waste) then the model assumes that this extra waste is recycled/composted and r

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	Total MSW to be recovered and recycled/composted to meet target	0.047	0.053	0.059	0.065	0.072	0.079	0.087	0.096	0.105	0.114	0.124	0.129	0.134	0.139	0.144	0.150	0.152	0.155	0.158	0.160	0.163
	Total MSW not-diverted by targets	0.087	0.085	0.082	0.079	0.076	0.073	0.067	0.062	0.056	0.050	0.044	0.041	0.039	0.036	0.033	0.031	0.031	0.031	0.031	0.031	0.031
	Percentage of MSW that is biodegradable (% by weight)	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68
	Total BMW not-diverted by targets	0.059	0.058	0.056	0.054	0.052	0.050	0.046	0.042	0.038	0.034	0.030	0.028	0.026	0.025	0.023	0.021	0.021	0.021	0.021	0.021	0.021
	LATS shortfall (how much extra is landfilled above LATS target)	-0.021	-0.020	-0.018	-0.014	-0.009	-0.003	-0.001	0.001	0.003	0.000	-0.002	-0.003	-0.003	-0.003	-0.003	-0.004	-0.004	-0.004	-0.004	-0.003	-0.003
	Ratio of 'recovered' to 'recycled/composted' for target (%)	14%	17%	19%	20%	22%	23%	26%	28%	29%	31%	32%	33%	33%	33%	33%	34%	33%	32%	31%	30%	29%
	Extra MSW 'recovery' needed due to LATS shortfall	0.000	0.000	0.000	0.000	0.000	0.000	0.000	*0.000*	*0.001*	*0.000*	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Extra MSW 'recycling/composting' needed due to LATS shortfall	0.000	0.000	0.000	0.000	0.000	0.000	0.000	*0.001*	*0.002*	*0.000*	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

The section below in DATA_03 shows the tonnages by waste to meet targets.

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	Recycling and composting target	0.040	0.044	0.048	0.052	0.056	0.061	0.065	0.070	0.076	0.079	0.084	0.087	0.090	0.093	0.096	0.099	0.103	0.106	0.109	0.113	0.117
	Recovery target	0.007	0.009	0.011	0.013	0.016	0.018	0.022	0.027	0.032	0.036	0.040	0.042	0.044	0.046	0.048	0.051	0.050	0.049	0.048	0.047	0.047
	Non-hazardous landfill	0.087	0.085	0.082	0.079	0.076	0.073	0.067	0.061	0.053	0.050	0.044	0.041	0.039	0.036	0.033	0.031	0.031	0.031	0.031	0.031	0.031
	CHECK COUNTER (should be zero)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
c&i	Recycling and composting target	0.038	0.040	0.043	0.047	0.050	0.053	0.055	0.058	0.060	0.062	0.065	0.067	0.069	0.071	0.074	0.076	0.078	0.080	0.082	0.084	0.086
	Recovery target	0.013	0.014	0.014	0.015	0.015	0.016	0.017	0.019	0.020	0.022	0.023	0.024	0.025	0.025	0.026	0.027	0.026	0.026	0.026	0.026	0.025
	Non-hazardous landfill	0.043	0.042	0.041	0.040	0.039	0.037	0.036	0.034	0.033	0.031	0.029	0.028	0.027	0.026	0.025	0.024	0.023	0.023	0.022	0.022	0.021
	CHECK COUNTER (should be zero)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
c&d	Recycling target	0.149	0.153	0.156	0.159	0.162	0.166	0.166	0.166	0.166	0.166	0.166	0.172	0.179	0.186	0.192	0.199	0.199	0.199	0.199	0.199	0.199
	Recovery target	0.119	0.117	0.115	0.113	0.111	0.109	0.111	0.113	0.115	0.117	0.119	0.114	0.109	0.103	0.098	0.093	0.094	0.096	0.097	0.098	0.099
	Inert landfill	0.063	0.062	0.060	0.059	0.058	0.056	0.054	0.052	0.050	0.048	0.046	0.045	0.044	0.042	0.041	0.040	0.038	0.037	0.036	0.034	0.033
	CHECK COUNTER (should be zero)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
hazardous	Hazardous waste	0.015	0.016	0.016	0.016	0.017	0.017	0.018	0.018	0.018	0.019	0.019	0.019	0.020	0.020	0.020	0.021	0.021	0.021	0.021	0.021	0.022

DATA_06: TOTAL WASTE TONNAGES TO MEET TARGETS (Million Tonnes)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
MSW and C&I recycling and composting target	0.078	0.084	0.091	0.099	0.106	0.114	0.120	0.128	0.136	0.141	0.148	0.153	0.159	0.164	0.169	0.175	0.180	0.186	0.191	0.197	0.203
C&D recycling target	0.149	0.153	0.156	0.159	0.162	0.166	0.166	0.166	0.166	0.166	0.166	0.172	0.179	0.186	0.192	0.199	0.199	0.199	0.199	0.199	0.199
MSW and C&I recovery target	0.020	0.022	0.025	0.028	0.031	0.034	0.040	0.046	0.052	0.057	0.064	0.066	0.069	0.072	0.074	0.077	0.076	0.075	0.074	0.073	0.072
C&D recovery target	0.119	0.117	0.115	0.113	0.111	0.109	0.111	0.113	0.115	0.117	0.119	0.114	0.109	0.103	0.098	0.093	0.094	0.096	0.097	0.098	0.099
Non-hazardous landfill	0.130	0.127	0.123	0.119	0.115	0.110	0.103	0.095	0.086	0.081	0.073	0.069	0.066	0.062	0.059	0.055	0.054	0.054	0.053	0.053	0.052
Inert landfill	0.063	0.062	0.060	0.059	0.058	0.056	0.054	0.052	0.050	0.048	0.046	0.045	0.044	0.042	0.041	0.040	0.038	0.037	0.036	0.034	0.033
Hazardous waste	0.015	0.016	0.016	0.016	0.017	0.017	0.018	0.018	0.018	0.019	0.019	0.019	0.020	0.020	0.020	0.021	0.021	0.021	0.021	0.021	0.022

Medway

CHART_01

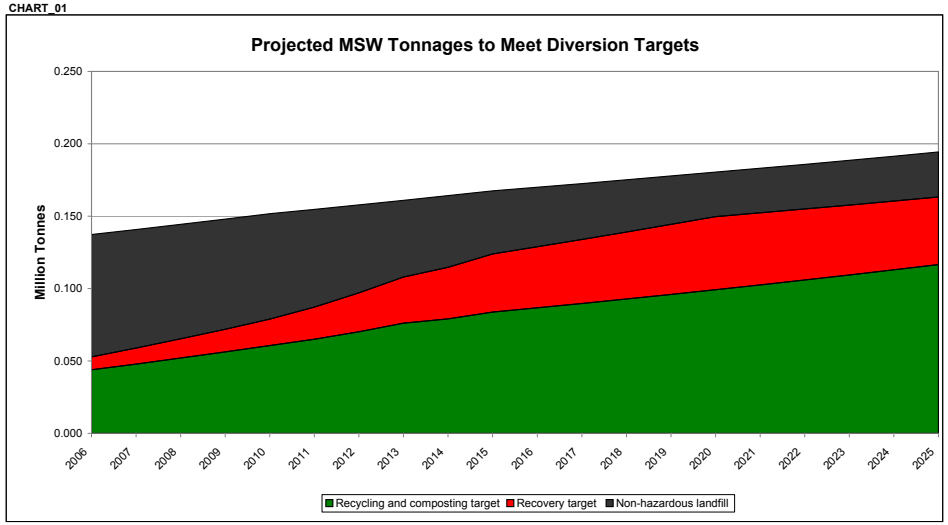


CHART_02

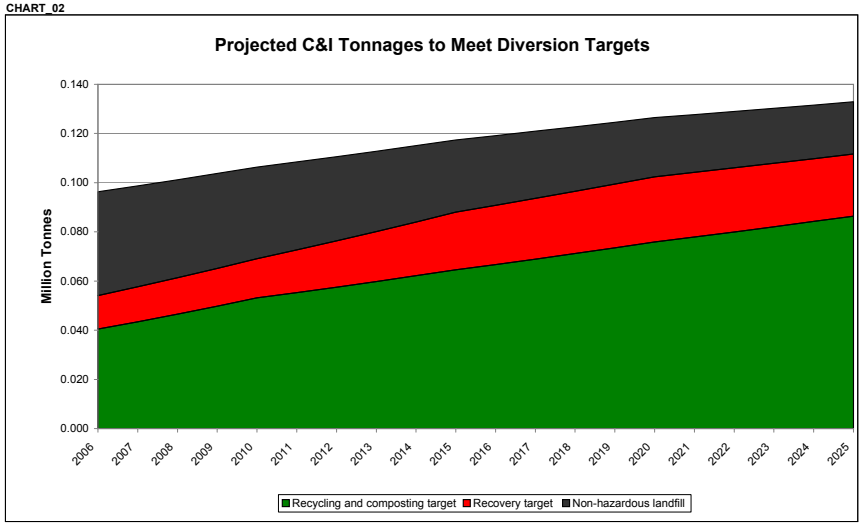


CHART_03

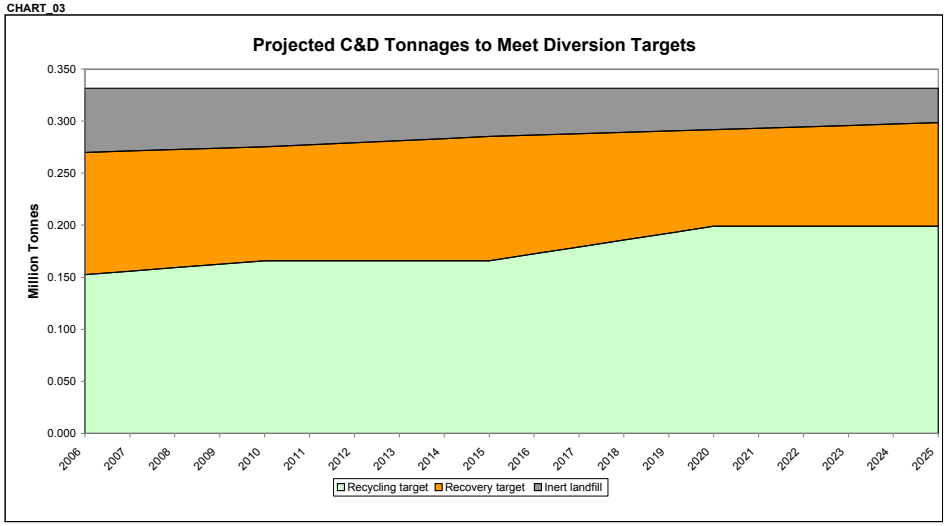
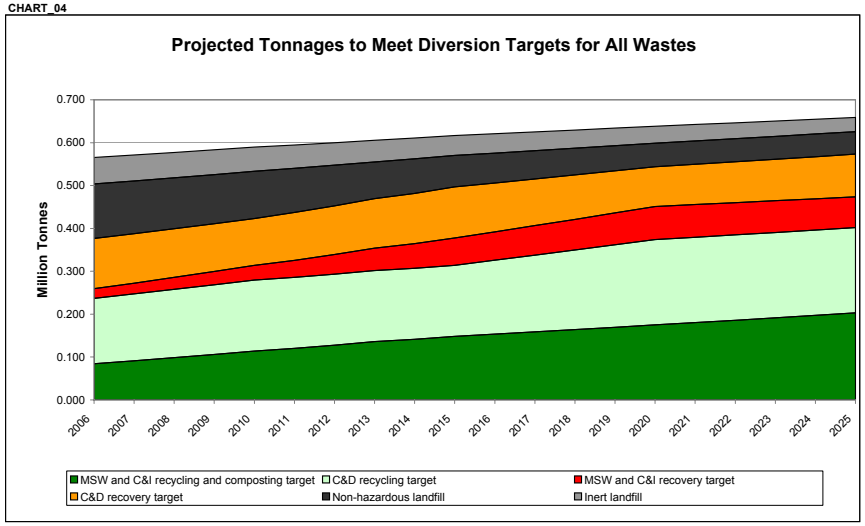
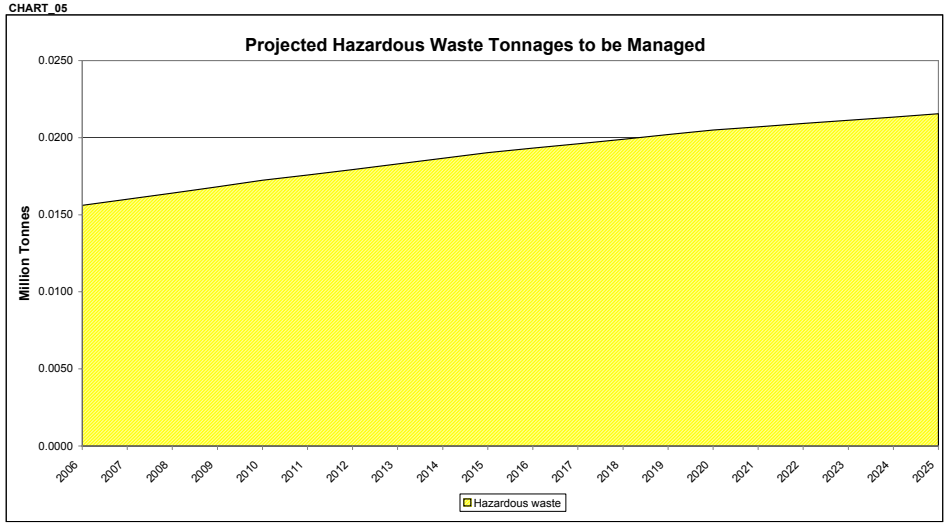


CHART_04



Medway

CHART_05



DATA_07: EXISTING/PLANNED CAPACITY FOR RECYCLING, RECOVERY AND LANDFILLING AND TOTAL WASTE TONNAGES TO EACH DISPOSAL ROUTE (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
MSW and C&I recovery																					
MSW and C&I incineration (non-specialist)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
MSW and C&I treatment	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
Total existing/planned MSW and C&I recovery capacity	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
Total MSW waste required to meet target	0.007	0.009	0.011	0.013	0.016	0.018	0.022	0.027	0.032	0.036	0.040	0.042	0.044	0.046	0.048	0.051	0.050	0.049	0.048	0.047	0.047
Total C&I waste required to meet target	0.013	0.014	0.014	0.015	0.015	0.016	0.017	0.019	0.020	0.022	0.023	0.024	0.025	0.025	0.026	0.027	0.026	0.026	0.026	0.026	0.025
Surplus/deficit capacity	-0.015	-0.017	-0.020	-0.023	-0.026	-0.029	-0.035	-0.041	-0.047	-0.052	-0.059	-0.061	-0.064	-0.067	-0.069	-0.072	-0.071	-0.070	-0.069	-0.068	-0.067
MSW and C&I recycling and composting																					
MSW and C&I recycling	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
MSW and C&I transfer	1.730	1.730	1.730	1.730	1.730	1.730	1.730	1.730	1.730	1.730	1.730	1.730	1.730	1.730	1.730	1.730	1.730	1.730	1.730	1.730	1.730
Total existing/planned composting capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
(1) Total existing/planned MSW and C&I recycling and composting capacity (Baseline: 20% of transfer capacity delivers recycling)	0.346	0.346	0.346	0.346	0.346	0.346	0.346	0.346	0.346	0.346	0.346	0.346	0.346	0.346	0.346	0.346	0.346	0.346	0.346	0.346	0.346
(2) Total existing/planned MSW and C&I recycling and composting capacity (Sensitivity: 5% of transfer capacity delivers recycling)	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087	0.087
Total MSW waste required to meet recycling and composting target	0.040	0.044	0.048	0.052	0.056	0.061	0.065	0.070	0.076	0.079	0.084	0.087	0.090	0.093	0.096	0.099	0.103	0.106	0.109	0.113	0.117
Total C&I waste required to meet recycling and composting target	0.038	0.040	0.043	0.047	0.050	0.053	0.055	0.058	0.060	0.062	0.065	0.067	0.069	0.071	0.074	0.076	0.078	0.080	0.082	0.084	0.086
Surplus/deficit capacity (Baseline: 20% of transfer capacity delivers recycling)	0.268	0.262	0.255	0.248	0.240	0.232	0.226	0.218	0.210	0.205	0.198	0.193	0.187	0.182	0.177	0.171	0.166	0.160	0.155	0.149	0.143
Surplus/deficit capacity (Sensitivity: 5% of transfer capacity delivers recycling)	0.009	0.002	-0.005	-0.012	-0.020	-0.027	-0.034	-0.041	-0.049	-0.055	-0.062	-0.067	-0.072	-0.077	-0.083	-0.089	-0.094	-0.099	-0.105	-0.111	-0.116
C&D recycling																					
Total existing/planned C&D recycling capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total waste required to meet C&D recycling target	0.149	0.153	0.156	0.159	0.162	0.166	0.166	0.166	0.166	0.166	0.166	0.172	0.179	0.186	0.192	0.199	0.199	0.199	0.199	0.199	0.199
Surplus/deficit capacity	-0.149	-0.153	-0.156	-0.159	-0.162	-0.166	-0.166	-0.166	-0.166	-0.166	-0.166	-0.172	-0.179	-0.186	-0.192	-0.199	-0.199	-0.199	-0.199	-0.199	-0.199
C&D recovery																					
(3) REGIONAL total existing/planned C&D recovery capacity	1.877	1.794	1.710	1.627	1.544	1.460	1.439	1.418	1.398	1.377	1.356	1.325	1.293	1.262	1.231	1.199	1.220	1.241	1.262	1.283	1.304
Sub-regional total waste required to meet C&D recovery target	0.119	0.117	0.115	0.113	0.111	0.109	0.111	0.113	0.115	0.117	0.119	0.114	0.109	0.103	0.098	0.093	0.094	0.096	0.097	0.098	0.099
Surplus/deficit capacity	1.758	1.676	1.595	1.514	1.432	1.351	1.328	1.305	1.282	1.259	1.236	1.210	1.184	1.158	1.133	1.107	1.126	1.146	1.165	1.185	1.204
Hazardous waste recycling																					
Total existing/planned hazardous waste recycling capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total hazardous waste to be recycled	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Surplus/deficit capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hazardous waste recovery																					
Total existing/planned hazardous waste recovery capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total hazardous waste to be recovered	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Surplus/deficit capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Non-hazardous landfill																					
Available non-hazardous landfill capacity (excluding residues from MSW and C&I recovery)		0.475	0.304	0.135	-0.030	-0.193	-0.351	-0.503	-0.647	-0.782	-0.912	-1.035	-1.155	-1.272	-1.387	-1.500	-1.609	-1.719	-1.828	-1.938	-2.048
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'Incineration (non-specialist)'		0.475	0.300	0.128	-0.042	-0.209	-0.372	-0.530	-0.681	-0.824	-0.963	-1.095	-1.225	-1.353	-1.478	-1.602	-1.723	-1.844	-1.965	-2.086	-2.207
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'MBT'		0.475	0.290	0.107	-0.075	-0.256	-0.434	-0.610	-0.781	-0.947	-1.110	-1.270	-1.430	-1.588	-1.745	-1.901	-2.056	-2.210	-2.364	-2.518	-2.671
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'RDF'		0.475	0.301	0.129	-0.039	-0.205	-0.368	-0.525	-0.674	-0.816	-0.953	-1.083	-1.211	-1.337	-1.460	-1.581	-1.700	-1.819	-1.937	-2.056	-2.175
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'treatment'		0.475	0.293	0.114	-0.064	-0.241	-0.415	-0.584	-0.749	-0.908	-1.063	-1.215	-1.364	-1.513	-1.660	-1.806	-1.950	-2.094	-2.237	-2.380	-2.523
Total MSW and C&I waste sent direct to non-hazardous landfill		0.127	0.123	0.119	0.115	0.110	0.103	0.095	0.086	0.081	0.073	0.069	0.066	0.062	0.059	0.055	0.054	0.054	0.053	0.053	0.052
Inert landfill																					
Available inert landfill capacity		0.000	-0.062	-0.122	-0.181	-0.239	-0.295	-0.350	-0.402	-0.452	-0.501	-0.547	-0.592	-0.636	-0.678	-0.720	-0.759	-0.798	-0.835	-0.871	-0.905
Available inert landfill capacity assuming all MSW and C&I recovery by 'Incineration (non-specialist)'		0.000	-0.065	-0.129	-0.192	-0.255	-0.316	-0.377	-0.436	-0.494	-0.551	-0.607	-0.662	-0.716	-0.769	-0.822	-0.873	-0.923	-0.971	-1.018	-1.064
Total C&D waste sent direct to inert landfill (excludes residues from MSW and C&I recovery)	0.063	0.062	0.060	0.059	0.058	0.056	0.054	0.052	0.050	0.048	0.046	0.045	0.044	0.042	0.041	0.040	0.038	0.037	0.036	0.034	0.033
Hazardous landfill																					
Available hazardous landfill capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total hazardous waste sent direct to hazardous landfill	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Other																					
Metal/ELV facility	0.414	0.414	0.414	0.414	0.414	0.414	0.414	0.414	0.414	0.414	0.414	0.414	0.414	0.414	0.414	0.414	0.414	0.414	0.414	0.414	0.414
Ignored	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Closed	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

(1) ERM has assumed that 20% of the total "transfer' capacity will deliver recycling capacity
(2) ERM has assumed that 5% of the total "transfer' capacity will deliver recycling capacity
(3) Data for C&D recovery for landfill cover for the SE Region were sourced from the original MEL model, which sourced the data from Symonds (2001)
Landfill capacity data for 2005 were adapted from *Table R* in the ERM data template for each sub-region

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Medway

DATA_08: RESIDUE RATES (%)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Recovery residues (% by weight)																					
MSW and C&I incineration (non-specialist) - bottom ash	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
MSW and C&I incineration (non-specialist) - fly ash	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
MSW and C&I to MBT	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59
MSW and C&I to RDF	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
MSW and C&I treatment - non-hazardous	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45
MSW and C&I treatment - hazardous	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Hazardous waste recovery	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Recycling residues (% by weight)																					
MSW and C&I recycling	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
MSW and C&I transfer	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
MSW and C&I composting	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
C&D recycling	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Hazardous waste recycling	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Other																					
Metal/ELV facility	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Ignored	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Closed	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Note: All residues are calculated on the amount of waste arising not on the maount of capacity available. This is complaince with the self-sufficiency requirements of PPS10.

DATA_09: TOTAL RESIDUE (Million Tonnes)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Recovery residues (of waste managed):																					
MSW and C&I incineration (non-specialist) - bottom ash	0.006	0.007	0.008	0.008	0.009	0.010	0.012	0.014	0.016	0.017	0.019	0.020	0.021	0.021	0.022	0.023	0.023	0.023	0.022	0.022	0.022
MSW and C&I incineration (non-specialist) - fly ash	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
MSW and C&I to MBT	0.012	0.013	0.015	0.017	0.018	0.020	0.023	0.027	0.031	0.034	0.038	0.039	0.041	0.042	0.044	0.045	0.045	0.044	0.044	0.043	0.042
MSW and C&I to RDF	0.002	0.003	0.003	0.003	0.004	0.004	0.005	0.005	0.006	0.007	0.008	0.008	0.008	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009
MSW and C&I treatment - non-hazardous	0.009	0.010	0.011	0.013	0.014	0.015	0.018	0.021	0.023	0.026	0.029	0.030	0.031	0.032	0.033	0.035	0.034	0.034	0.033	0.033	0.032
MSW and C&I treatment - hazardous	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.003	0.003	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
Hazardous waste recovery	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Recycling residues (of waste managed):																					
MSW and C&I recycling and composting	0.012	0.013	0.014	0.015	0.016	0.017	0.018	0.019	0.020	0.021	0.022	0.023	0.024	0.025	0.025	0.026	0.027	0.028	0.029	0.030	0.030
C&D recycling	0.015	0.015	0.016	0.016	0.016	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.018	0.019	0.019	0.020	0.020	0.020	0.020	0.020	0.020
Hazardous waste recycling	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Note: All residues are calculated on the amount of waste arising not on the maount of capacity available. This is complaince with the self-sufficiency requirements of PPS10.

DATA_10: TOTAL MSW AND C&I RESIDUE FROM RECYCLING SENT TO NON-HAZARDOUS LANDFILL (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Total MSW and C&I recycling and composting residue sent to non-hazardous landfill	0.027	0.028	0.029	0.031	0.032	0.034	0.035	0.036	0.037	0.038	0.039	0.040	0.042	0.043	0.045	0.046	0.047	0.048	0.049	0.049	0.050

DATA_11: TOTAL MSW AND C&I RESIDUE FROM RECOVERY SENT TO NON-HAZARDOUS LANDFILL AND C&D RECYCLING (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
SCENARIO 1 - Assumes all recovery is by 'Non-specialist incineration' (based on total recovery capacity)																					
(1) Total MSW and C&I residue sent to non-hazardous landfill assuming all MSW and C&I recovery by 'Non-specialist incineration'	0.003	0.003	0.004	0.004	0.005	0.005	0.006	0.007	0.008	0.009	0.010	0.010	0.010	0.011	0.011	0.012	0.011	0.011	0.011	0.011	0.011
(1) Total MSW and C&I residue sent to inert landfill assuming all MSW and C&I recovery by 'Non-specialist incineration'	0.003	0.003	0.004	0.004	0.005	0.005	0.006	0.007	0.008	0.009	0.010	0.010	0.010	0.011	0.011	0.012	0.011	0.011	0.011	0.011	0.011
SCENARIO 2 - Assumes all recovery is by 'MBT' (based on total recovery capacity)																					
Total MSW and C&I residue sent to non-hazardous landfill	0.012	0.013	0.015	0.017	0.018	0.020	0.023	0.027	0.031	0.034	0.038	0.039	0.041	0.042	0.044	0.045	0.045	0.044	0.044	0.043	0.042
SCENARIO 3 - Assumes all recovery is by 'RDF' (based on total recovery capacity)																					
Total MSW and C&I residue sent to non-hazardous landfill	0.002	0.003	0.003	0.003	0.004	0.004	0.005	0.005	0.006	0.007	0.008	0.008	0.008	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009
SCENARIO 4 - Assumes all recovery is by 'treatment' (based on total recovery capacity)																					
(2) Total MSW and C&I residue sent to non-hazardous landfill	0.009	0.010	0.011	0.013	0.014	0.015	0.018	0.021	0.023	0.026	0.029	0.030	0.031	0.032	0.033	0.035	0.034	0.034	0.033	0.033	0.032

(1) It was assumed that 50% of residue from 'non-specialist incineration' is sent to non-hazardous landfill and 50% is sent to inert landfill. In the original model assumptions developed MEL 50% was assumed to go to C&D recycling, rather than to inert landfi

DATA_12: TONNAGES OF C&D REUSED ON NON-HAZARDOUS AND INERT LANDFILL (Million Tonnes)

(1) C&D reused on landfill sites	39 %
(1) C&D reused on exempt sites	61 %
(1) C&D reused on landfill sites sent to 'non-haz landfill'	30 %
(1) C&D reused on landfill sites sent to 'inert landfill'	70 %

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
c&d	Total C&D reused on non-hazardous landfill	0.014	0.014	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.014	0.014	0.013	0.013	0.012	0.011	0.011	0.011	0.011	0.011	0.011	0.012
	Total reused C&D on inert landfill	0.032	0.032	0.031	0.031	0.030	0.030	0.030	0.031	0.031	0.032	0.032	0.031	0.030	0.028	0.027	0.025	0.026	0.026	0.026	0.027	0.027

(1) C&D reuse rates based on original model assumptions developed MEL
NOTE: C&D reuse on inert and non-hazardous landfill is not included within the charts because it has been assumed that data supplied by each sub-region has accounted for C&D reuse as an engineering material.

DATA_13: TOTAL MSW AND C&I RESIDUE FROM RECYCLING SENT TO HAZARDOUS LANDFILL (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Total MSW and C&I recycling and composting residue sent to hazardous landfill	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

DATA_14: TOTAL MSW AND C&I RESIDUE FROM RECOVERY SENT TO HAZARDOUS LANDFILL (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
SCENARIO 1 - Assumes all recovery is by 'Non-specialist incineration' (based on total recovery capacity)																					
Total MSW and C&I residue sent to hazardous landfill assuming all MSW and C&I recovery by 'Non-specialist incineration'	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
SCENARIO 2 - Assumes all recovery is by 'MBT' (based on total recovery capacity)																					
Total MSW and C&I residue sent to hazardous landfill	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SCENARIO 3 - Assumes all recovery is by 'RDF' (based on total recovery capacity)																					
Total MSW and C&I residue sent to hazardous landfill	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SCENARIO 4 - Assumes all recovery is by 'treatment' (based on total recovery capacity)																					
Total MSW and C&I residue sent to hazardous landfill	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.003	0.003	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004

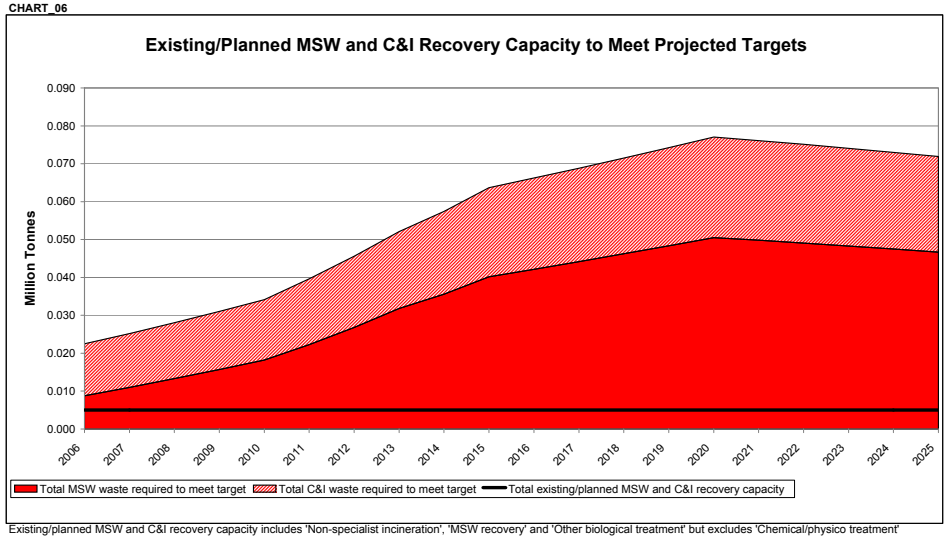
NOTE: This element of the model is redundant. There is currently no hazardous waste capacity figures to generate a chart of managed waste versus available capacity.

DATA_15: TOTAL HAZARDOUS WASTE RESIDUE FROM RECOVERY AND RECYCLING SENT TO HAZARDOUS LANDFILL (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Total hazardous waste recycling and recovery residue sent to hazardous landfill	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

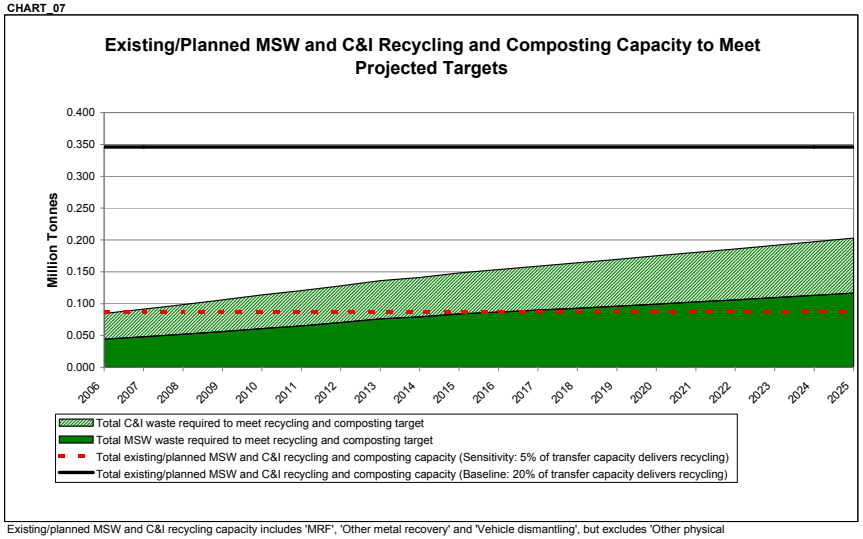
Medway

CHART_06



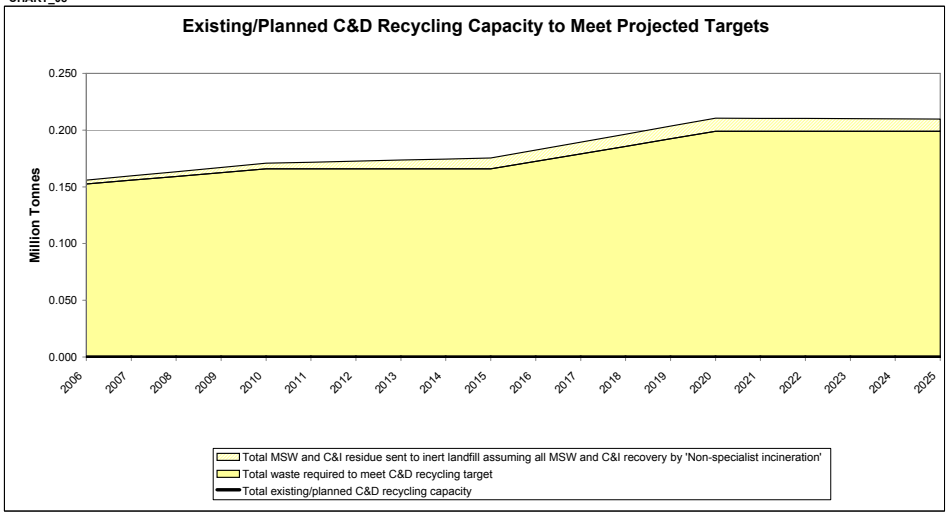
Existing/planned MSW and C&I recovery capacity includes 'Non-specialist incineration', 'MSW recovery' and 'Other biological treatment' but excludes 'Chemical/physico treatment'
NOTE: This capacity does not represent the quantity of material that is recovered.
NOTE: The original MEL model assumes that 'MSW recovery' capacity is incineration - but this is not made explicit.

CHART_07



Existing/planned MSW and C&I recycling capacity includes 'MRF', 'Other metal recovery' and 'Vehicle dismantling', but excludes 'Other physical treatment' (because this category includes CA sites)
NOTE: This capacity does not represent the quantity of material that is recycled and composted.

CHART_08



Medway

CHART_09

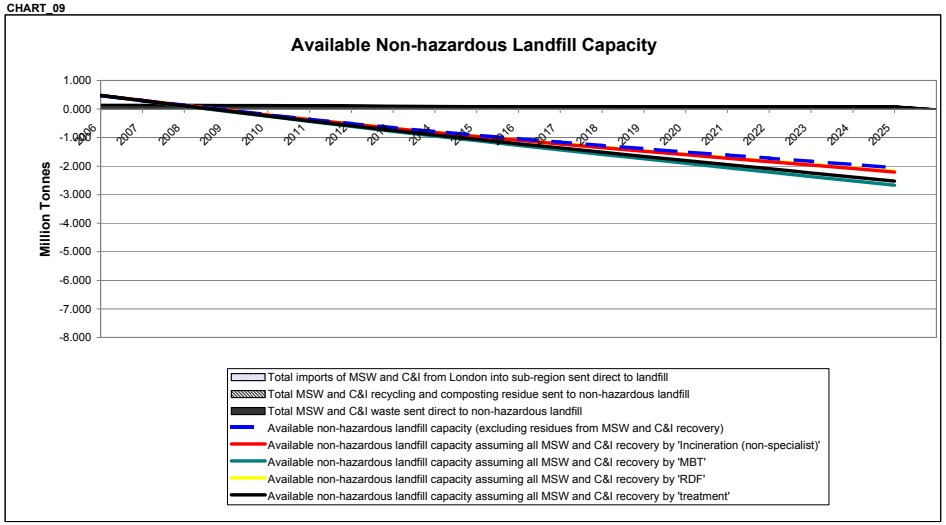
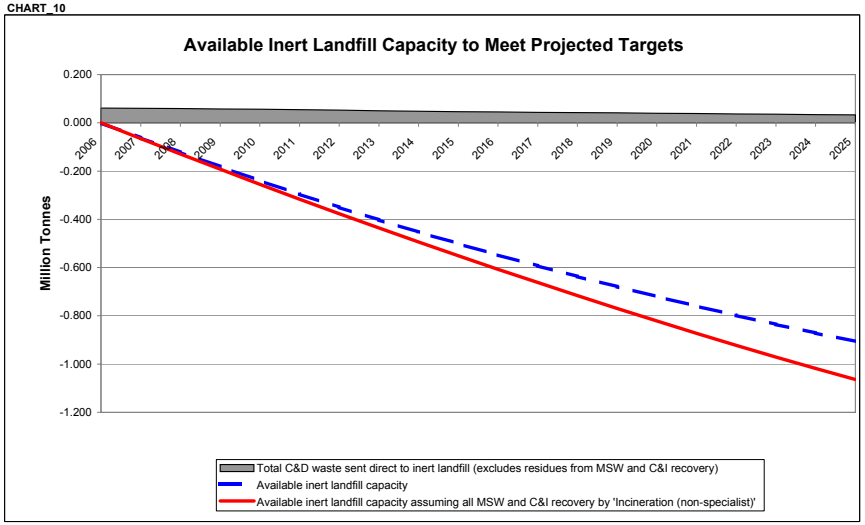


CHART_10



Milton Keynes

SUMMARY DATA AND RESULTS FOR MILTON KEYNES

MANAGED WASTE USED TO GENERATE RESULTS (Million Tonnes)	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	0.132	0.135	0.138	0.142	0.145	0.148	0.151	0.154	0.157	0.160	0.163	0.165	0.168	0.170	0.173	0.175	0.178	0.181	0.183	0.186
msw - imports from london that are sent direct to non-hazardous landfill	0.146	0.142	0.138	0.135	0.131	0.123	0.116	0.109	0.102	0.094	0.090	0.086	0.083	0.079	0.075	0.073	0.071	0.070	0.068	0.067
c&i	0.025	0.026	0.026	0.027	0.027	0.028	0.029	0.029	0.030	0.030	0.031	0.031	0.032	0.032	0.033	0.033	0.033	0.034	0.034	0.034
c&i - imports from london that are sent direct to non-hazardous landfill	0.028	0.027	0.026	0.025	0.025	0.023	0.022	0.021	0.019	0.018	0.017	0.016	0.016	0.015	0.014	0.014	0.013	0.013	0.013	0.012
c&d	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063
hazardous	0.011	0.011	0.011	0.012	0.012	0.012	0.013	0.013	0.013	0.013	0.013	0.014	0.014	0.014	0.014	0.014	0.015	0.015	0.015	0.015

WASTE STREAM TONNAGES TO MEET TARGETS (Million Tonnes)		2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	LATS shortfall (how much extra is landfilled above LATS target)	-0.011	-0.009	-0.006	-0.002	0.003	0.004	0.006	0.007	0.004	0.001	0.001	0.000	0.000	0.000	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
	Recycling and composting target	0.042	0.046	0.050	0.054	0.060	0.065	0.071	0.076	0.078	0.081	0.084	0.086	0.089	0.092	0.095	0.098	0.101	0.105	0.108	0.112
	Recovery target	0.008	0.011	0.013	0.015	0.018	0.022	0.027	0.032	0.035	0.039	0.041	0.042	0.044	0.046	0.048	0.048	0.047	0.046	0.045	0.045
	Non-hazardous landfill	0.081	0.079	0.076	0.073	0.067	0.060	0.054	0.047	0.044	0.041	0.039	0.037	0.034	0.032	0.029	0.029	0.030	0.030	0.030	0.030
c&i	Recycling and composting target	0.010	0.011	0.012	0.013	0.014	0.014	0.015	0.015	0.016	0.017	0.017	0.018	0.018	0.019	0.020	0.020	0.021	0.021	0.022	0.022
	Recovery target	0.004	0.004	0.004	0.004	0.004	0.004	0.005	0.005	0.006	0.006	0.006	0.006	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007
	Non-hazardous landfill	0.011	0.011	0.010	0.010	0.010	0.009	0.009	0.008	0.008	0.008	0.007	0.007	0.007	0.007	0.006	0.006	0.006	0.006	0.006	0.005
c&d	Recycling target	0.029	0.030	0.030	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.033	0.034	0.035	0.036	0.038	0.038	0.038	0.038	0.038	0.038
	Recovery target	0.022	0.022	0.021	0.021	0.021	0.021	0.021	0.022	0.022	0.023	0.022	0.021	0.020	0.019	0.018	0.018	0.018	0.018	0.019	0.019
	Inert landfill	0.012	0.011	0.011	0.011	0.011	0.010	0.010	0.010	0.009	0.009	0.009	0.008	0.008	0.008	0.008	0.007	0.007	0.007	0.007	0.006
hazardous	Hazardous waste	0.011	0.011	0.011	0.012	0.012	0.012	0.013	0.013	0.013	0.013	0.013	0.014	0.014	0.014	0.014	0.014	0.015	0.015	0.015	0.015

Note: If there is a LATS shortfall, denoted by a positive number, (ie insufficient allowance to landfill non-diverted waste) then the model assumes that this extra waste is recycled/composted and recovered at the same ratio as the regional targets for recycling/composting and recovery for that year.

EXISTING/PLANNED CAPACITY FOR RECYCLING, RECOVERY AND LANDFILLING AND TOTAL WASTE TONNAGES TO EACH DISPOSAL ROUTE (Million Tonnes)	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
MSW and C&I recovery																				
Total existing/planned MSW and C&I recovery capacity	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075
Surplus/deficit capacity	0.063	0.061	0.058	0.056	0.053	0.048	0.043	0.038	0.034	0.030	0.028	0.026	0.024	0.022	0.020	0.020	0.021	0.022	0.023	0.024
MSW and C&I recycling and composting																				
Total existing/planned MSW and C&I recycling and composting capacity (Baseline: 20% of transfer capacity delivers recycling)	0.245	0.245	0.245	0.245	0.245	0.245	0.245	0.245	0.245	0.245	0.245	0.245	0.245	0.245	0.245	0.245	0.245	0.245	0.245	0.245
Total existing/planned MSW and C&I recycling and composting capacity (Sensitivity: 5% of transfer capacity delivers recycling)	0.219	0.219	0.219	0.219	0.219	0.219	0.219	0.219	0.219	0.219	0.219	0.219	0.219	0.219	0.219	0.219	0.219	0.219	0.219	0.219
Surplus/deficit capacity (Baseline: 20% of transfer capacity delivers recycling)	0.192	0.188	0.183	0.178	0.171	0.165	0.159	0.154	0.151	0.147	0.144	0.141	0.137	0.134	0.130	0.126	0.123	0.119	0.115	0.111
Surplus/deficit capacity (Sensitivity: 5% of transfer capacity delivers recycling)	0.167	0.162	0.158	0.153	0.146	0.140	0.134	0.128	0.125	0.122	0.119	0.115	0.112	0.108	0.105	0.101	0.097	0.093	0.089	0.085
C&D recycling																				
Total existing/planned C&D recycling capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Surplus/deficit capacity	-0.029	-0.030	-0.030	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031	-0.033	-0.034	-0.035	-0.036	-0.038	-0.038	-0.038	-0.038	-0.038	-0.038
C&D recovery																				
REGIONAL total existing/planned C&D recovery capacity	1.794	1.710	1.627	1.544	1.460	1.439	1.418	1.398	1.377	1.356	1.325	1.293	1.262	1.231	1.199	1.220	1.241	1.262	1.283	1.304
Surplus/deficit capacity	1.772	1.689	1.605	1.522	1.439	1.418	1.397	1.376	1.354	1.333	1.303	1.273	1.242	1.212	1.182	1.202	1.223	1.244	1.264	1.285
Hazardous waste recycling																				
Total existing/planned hazardous waste recycling capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Surplus/deficit capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hazardous waste recovery																				
Total existing/planned hazardous waste recovery capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Surplus/deficit capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Non-hazardous landfill																				
Available non-hazardous landfill capacity (excluding residues from MSW and C&I recovery)	22.000	21.724	21.454	21.192	20.936	20.689	20.457	20.241	20.039	19.849	19.671	19.499	19.334	19.175	19.022	18.877	18.733	18.591	18.450	18.310
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'Incineration (non-specialist)'	22.000	21.722	21.450	21.185	20.926	20.677	20.441	20.219	20.012	19.816	19.631	19.452	19.280	19.113	18.953	18.799	18.647	18.496	18.347	18.200
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'MBT'	22.000	21.717	21.439	21.166	20.899	20.640	20.392	20.157	19.933	19.719	19.514	19.315	19.121	18.932	18.748	18.570	18.394	18.220	18.048	17.877
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'RDF'	22.000	21.722	21.451	21.186	20.928	20.679	20.444	20.224	20.017	19.823	19.639	19.462	19.290	19.125	18.967	18.814	18.664	18.515	18.368	18.222
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'treatment'	22.000	21.719	21.443	21.172	20.908	20.651	20.408	20.177	19.958	19.750	19.552	19.359	19.171	18.989	18.813	18.643	18.474	18.308	18.143	17.980
Inert landfill																				
Available inert landfill capacity	1.128	1.116	1.105	1.094	1.083	1.072	1.062	1.052	1.042	1.033	1.024	1.016	1.007	0.999	0.992	0.984	0.977	0.970	0.963	0.956
Available inert landfill capacity assuming all MSW and C&I recovery by 'Incineration (non-specialist)'	1.128	1.115	1.101	1.087	1.074	1.059	1.045	1.030	1.015	1.000	0.985	0.969	0.953	0.938	0.922	0.906	0.891	0.876	0.861	0.846
Hazardous landfill																				
Available hazardous landfill capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Note: The model does not contain data for the management of hazardous waste.

DATA_01: ARISINGS AND GROWTH RATES OF MSW, C&I AND HAZARDOUS WASTE (Million Tonnes)		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	Arisings of MSW in baseline year																					
	(1) Forecast regional level growth rate of MSW - per year (%)	3.0%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%
	(1) Forecast regional level growth rate of MSW - cumulative (%)	103%	106%	108%	111%	114%	117%	119%	121%	124%	126%	129%	131%	133%	135%	137%	139%	141%	143%	145%	147%	149%
	Total arisings of MSW using regional growth forecasts	0.128	0.132	0.135	0.138	0.142	0.145	0.148	0.151	0.154	0.157	0.160	0.163	0.165	0.168	0.170	0.173	0.175	0.178	0.181	0.183	0.186
	(1) Forecast sub-regional growth rate of MSW - per year (%)	2.6%	3.8%	4.4%	4.6%	4.4%	3.8%	3.3%	2.6%	2.6%	2.6%	2.1%	2.0%	2.0%	2.0%	2.1%	1.6%	1.5%	1.7%	1.6%	1.6%	1.6%
	(1) Forecast sub-regional level growth rate of MSW - cumulative (%)	103%	107%	111%	116%	121%	126%	130%	134%	137%	141%	143%	146%	149%	152%	156%	158%	160%	163%	166%	168%	171%
	Total arisings of MSW using sub-regional growth forecasts	0.128	0.133	0.139	0.145	0.151	0.157	0.162	0.167	0.171	0.175	0.179	0.183	0.186	0.190	0.194	0.197	0.200	0.203	0.207	0.210	0.213
c&i	Arisings of C&I in baseline year																					
	(1) Forecast regional level growth rate of C&I - per year (%)	3.3%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.0%	1.0%	1.0%	1.0%	1.0%
	(1) Forecast regional level growth rate of C&I - cumulative (%)	117%	120%	123%	126%	130%	133%	136%	138%	141%	144%	147%	149%	151%	153%	156%	158%	160%	161%	163%	164%	166%
	Total arisings of C&I using regional growth forecasts	0.024	0.025	0.026	0.026	0.027	0.027	0.028	0.029	0.029	0.030	0.030	0.031	0.031	0.032	0.032	0.033	0.033	0.033	0.034	0.034	0.034
	(1) Forecast sub-regional level growth rate of C&I - per year (%)	3.3%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.0%	1.0%	1.0%	1.0%	1.0%
	(1) Forecast sub-regional level growth rate of C&I - cumulative (%)	117%	120%	123%	126%	130%	133%	136%	138%	141%	144%	147%	149%	151%	153%	156%	158%	160%	161%	163%	164%	166%
	Total arisings of C&I using sub-regional growth forecasts	0.024	0.025	0.026	0.026	0.027	0.027	0.028	0.029	0.029	0.030	0.030	0.031	0.031	0.032	0.032	0.033	0.033	0.033	0.034	0.034	0.034
hazardous	Arisings of hazardous waste in baseline year																					
	(2) Forecast regional level growth rate of hazardous waste - per year (%)	3.3%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.0%	1.0%	1.0%	1.0%	1.0%
	Forecast regional level growth rate of hazardous waste - cumulative (%)	107%	109%	112%	115%	118%	121%	123%	126%	128%	131%	133%	135%	137%	139%	141%	144%	145%	146%	148%	149%	151%
	Total arisings of hazardous waste	0.011	0.011	0.011	0.011	0.012	0.012	0.012	0.013	0.013	0.013	0.013	0.013	0.014	0.014	0.014	0.014	0.014	0.015	0.015	0.015	0.015
	(2) Forecast sub-regional level growth rate of hazardous waste - per year (%)	3.3%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.0%	1.0%	1.0%	1.0%	1.0%
	Forecast sub regional level growth rate of hazardous waste - cumulative (%)	107%	109%	112%	115%	118%	121%	123%	126%	128%	131%	133%	135%	137%	139%	141%	144%	145%	146%	148%	149%	151%
	Total arisings of hazardous waste	0.011	0.011	0.011	0.011	0.012	0.012	0.012	0.013	0.013	0.013	0.013	0.013	0.014	0.014	0.014	0.014	0.014	0.015	0.015	0.015	0.015
c&d	Total managed C&D in baseline year																					
	(3) Forecast regional-level growth rate of managed C&D - per year (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Forecast regional-level growth rate of managed C&D - cumulative (%)	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
	(3) Total managed of C&D for the sub-region	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063

Milton Keynes

(1) Figures from SEERA updated waste capacity model by ERM in 2005.
(2) Baseline year of hazardous waste arisings is 2003 from EA Hazardous Waste Interrogator. www.environment-agency.gov.uk/apps/wastesurvey2/. ERM has assumed that growth in hazardous waste is equal to C&I waste.
(3) These data represent managed C&D waste in the sub-region, including all intra-regional and inter-regional movements. Growth is assumed to be zero from the orginal MEL study and updated modeted by ERM in 2005.
NOTE: C&D waste is not included in arisings because this was taken from survey data by Symonds 2001 which gave values for managed C&D waste.

Figure in blue represent data supplied by each sub-region for the new '2006 SEERA Capacity and Need Model'
Figures in orange represent managed waste that are used by the model to calculate results. These can be adjusted for different scenarios.

DATA_02: INTER REGIONAL MOVEMENTS OF MSW and C&I (Million Tonnes)		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw and c&i	Regional level imports of MSW and C&I waste into the SE region from London	1.76	1.716	1.672	1.628	1.584	1.54	1.454	1.368	1.282	1.196	1.11	1.064	1.018	0.972	0.926	0.88	0.86	0.84	0.82	0.8	0.78
	Proportion of regional MSW and C&I imports that go to the sub-region (%)	10.1%	10.1%	10.1%	10.1%	10.1%	10.1%	10.1%	10.1%	10.1%	10.1%	10.1%	10.1%	10.1%	10.1%	10.1%	10.1%	10.1%	10.1%	10.1%	10.1%	10.1%
	(1) Total imports of MSW and C&I from London into sub-region sent direct to landfill	0.178	0.173	0.169	0.164	0.160	0.156	0.147	0.138	0.129	0.121	0.112	0.107	0.103	0.098	0.094	0.089	0.087	0.085	0.083	0.081	0.079
msw	Proportion of total MSW and C&I imports that are MSW (%) - REGIONAL GROWTH FORECAST	84%	84%	84%	84%	84%	84%	84%	84%	84%	84%	84%	84%	84%	84%	84%	84%	84%	84%	84%	84%	84%
	Total imports of MSW into the sub-region from London - REGIONAL GROWTH FORECAST	0.149	0.146	0.142	0.138	0.135	0.131	0.123	0.116	0.109	0.102	0.094	0.090	0.086	0.083	0.079	0.075	0.073	0.071	0.070	0.068	0.067
	Proportion of total MSW and C&I imports that are MSW (%) - SUB-REGIONAL GROWTH FORECAST	84%	84%	84%	85%	85%	85%	85%	85%	85%	85%	85%	86%	86%	86%	86%	86%	86%	86%	86%	86%	86%
	Total imports of MSW into the sub-region from London - SUB-REGIONAL GROWTH FORECAST	0.149	0.146	0.143	0.139	0.136	0.132	0.125	0.118	0.111	0.103	0.096	0.092	0.088	0.084	0.080	0.076	0.075	0.073	0.071	0.070	0.068
c&i	Proportion of total MSW and C&I imports that are C&I (%) - REGIONAL GROWTH FORECAST	16%	16%	16%	16%	16%	16%	16%	16%	16%	16%	16%	16%	16%	16%	16%	16%	16%	16%	16%	16%	16%
	Total imports of C&I into the sub-region from London - REGIONAL GROWTH FORECAST	0.028	0.028	0.027	0.026	0.025	0.025	0.023	0.022	0.021	0.019	0.018	0.017	0.016	0.016	0.015	0.014	0.014	0.013	0.013	0.013	0.012
	Proportion of total MSW and C&I imports that are C&I (%) - SUB-REGIONAL GROWTH FORECAST	16%	16%	16%	15%	15%	15%	15%	15%	15%	15%	15%	14%	14%	14%	14%	14%	14%	14%	14%	14%	14%
	Total imports of C&I into the sub-region from London - SUB-REGIONAL GROWTH FORECAST	0.028	0.027	0.026	0.025	0.024	0.023	0.022	0.020	0.019	0.018	0.016	0.016	0.015	0.014	0.013	0.013	0.012	0.012	0.012	0.011	0.011

(1) Intra-regional and inter-regional movements have been excluded for MSW and C&I waste due to self-sufficiency requirements under PPS10, except for inter-regional movements from London into the sub-region. Apportionment from Policy W3 in the Plan – downloa
Note: Only a figure is available for total combined imports of MSW and C&I waste. ERM has assumed that imports of the seperate waste streams of MSW and C&I was split according to tonnage arisings of MSW and C&I in the sub-region.

DATA_03: MANAGED WASTE USED TO GENERATE RESULTS (Million Tonnes)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	0.128	0.132	0.135	0.138	0.142	0.145	0.148	0.151	0.154	0.157	0.160	0.163	0.165	0.168	0.170	0.173	0.175	0.178	0.181	0.183	0.186
msw - imports from london that are sent direct to non-hazardous landfill	0.149	0.146	0.142	0.138	0.135	0.131	0.123	0.116	0.109	0.102	0.094	0.090	0.086	0.083	0.079	0.075	0.073	0.071	0.070	0.068	0.067
c&i	0.024	0.025	0.026	0.026	0.027	0.027	0.028	0.029	0.029	0.030	0.030	0.031	0.031	0.032	0.032	0.033	0.033	0.033	0.034	0.034	0.034
c&I - imports from london that are sent direct to non-hazardous landfill	0.028	0.028	0.027	0.026	0.025	0.025	0.023	0.022	0.021	0.019	0.018	0.017	0.016	0.016	0.015	0.014	0.014	0.013	0.013	0.013	0.012
c&d	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063
hazardous	0.011	0.011	0.011	0.011	0.012	0.012	0.012	0.013	0.013	0.013	0.013	0.013	0.014	0.014	0.014	0.014	0.014	0.014	0.015	0.015	0.015

DATA_04: TARGETS (% or Million Tonnes)		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	(1) landfill (Mt)	0.068	0.066	0.062	0.058	0.052	0.045	0.040	0.035	0.030	0.029	0.027	0.026	0.025	0.023	0.022	0.021	0.021	0.021	0.021	0.021	0.021
	recovered (%)	5	6.4	7.8	9.2	10.6	12	14.4	16.8	19.2	21.6	24	24.8	25.6	26.4	27.2	28	27.2	26.4	25.6	24.8	24
	recycled and composted (%)	30	32.0	34.0	36.0	38.0	40	42.0	44.0	46.0	48.0	50	51.0	52.0	53.0	54.0	55	56.0	57.0	58.0	59.0	60
c&i	recovered (%)	14	14.2	14.4	14.6	14.8	15	16.0	17.0	18.0	19.0	20	20.2	20.4	20.6	20.8	21	20.6	20.2	19.8	19.4	19
	recycled and composted (%)	40	42.0	44.0	46.0	48.0	50	51.0	52.0	53.0	54.0	55	56.0	57.0	58.0	59.0	60	61.0	62.0	63.0	64.0	65
c&d	recovered (%)	36	35.4	34.8	34.2	33.6	33	33.6	34.2	34.8	35.4	36	34.4	32.8	31.2	29.6	28	28.4	28.8	29.2	29.6	30
	recycled (%)	45	46.0	47.0	48.0	49.0	50	50.0	50.0	50.0	50.0	50	52.0	54.0	56.0	58.0	60	60.0	60.0	60.0	60.0	60
hazardous	landfill (%)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	recovered (%)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	recycled (%)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

(1) ERM has assumed that the LATS target allowance remains constant at the 2020 value for the years beyond 2020

DATA_05: WASTE STREAM TONNAGES TO MEET TARGETS (Million Tonnes)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025

This first section of DATA_03 calculates if there is a LATS shortfall or suplus in each year. If there is a LATS shortfall (ie insufficient allowance to landfill non-diverted waste) then the model assumes that this extra waste is recycled/composted and r

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw Total MSW to be recovered and recycled/composted to meet target	0.045	0.051	0.056	0.063	0.069	0.076	0.084	0.092	0.101	0.109	0.119	0.123	0.128	0.133	0.138	0.143	0.146	0.149	0.151	0.154	0.156
Total MSW not-diverted by targets	0.083	0.081	0.079	0.076	0.073	0.070	0.065	0.059	0.054	0.048	0.042	0.039	0.037	0.035	0.032	0.029	0.029	0.030	0.030	0.030	0.030
Percentage of MSW that is biodegradable (% by weight)	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68
Total BMW not-diverted by targets	0.057	0.055	0.053	0.052	0.050	0.047	0.044	0.040	0.036	0.033	0.028	0.027	0.025	0.024	0.022	0.020	0.020	0.020	0.020	0.020	0.020
LATS shortfall (how much extra is landfilled above LATS target)	-0.012	-0.011	-0.009	-0.006	-0.002	0.003	0.004	0.006	0.007	0.004	0.001	0.001	0.000	0.000	0.000	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
Ratio of 'recovered' to 'recycled/composted' for target (%)	14%	17%	19%	20%	22%	23%	26%	28%	29%	31%	32%	33%	33%	33%	33%	34%	33%	32%	31%	30%	29%
Extra MSW 'recovery' needed due to LATS shortfall	0.000	0.000	0.000	0.000	0.000	*0.001*	*0.001*	*0.002*	*0.002*	*0.001*	*0.000*	*0.000*	*0.000*	*0.000*	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Extra MSW 'recycling/composting' needed due to LATS shortfall	0.000	0.000	0.000	0.000	0.000	*0.002*	*0.003*	*0.004*	*0.005*	*0.003*	*0.001*	*0.001*	*0.000*	*0.000*	0.000	0.000	0.000	0.000	0.000	0.000	0.000

The section below in DATA_03 shows the tonnages by waste to meet targets.

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw Recycling and composting target	0.039	0.042	0.046	0.050	0.054	0.060	0.065	0.071	0.076	0.078	0.081	0.084	0.086	0.089	0.092	0.095	0.098	0.101	0.105	0.108	0.112
Recovery target	0.006	0.008	0.011	0.013	0.015	0.018	0.022	0.027	0.032	0.035	0.039	0.041	0.042	0.044	0.046	0.048	0.048	0.047	0.046	0.045	0.045
Non-hazardous landfill	0.083	0.081	0.079	0.076	0.073	0.067	0.060	0.054	0.047	0.044	0.041	0.039	0.037	0.034	0.032	0.029	0.029	0.030	0.030	0.030	0.030
CHECK COUNTER (should be zero)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
c&i Recycling and composting target	0.010	0.010	0.011	0.012	0.013	0.014	0.014	0.015	0.015	0.016	0.017	0.017	0.018	0.018	0.019	0.020	0.020	0.021	0.021	0.022	0.022
Recovery target	0.003	0.004	0.004	0.004	0.004	0.004	0.004	0.005	0.005	0.006	0.006	0.006	0.006	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007
Non-hazardous landfill	0.011	0.011	0.011	0.010	0.010	0.010	0.009	0.009	0.008	0.008	0.008	0.007	0.007	0.007	0.007	0.006	0.006	0.006	0.006	0.006	0.005
CHECK COUNTER (should be zero)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
c&d Recycling target	0.028	0.029	0.030	0.030	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.033	0.034	0.035	0.036	0.038	0.038	0.038	0.038	0.038	0.038
Recovery target	0.023	0.022	0.022	0.021	0.021	0.021	0.021	0.021	0.022	0.022	0.023	0.022	0.021	0.020	0.019	0.018	0.018	0.018	0.018	0.019	0.019
Inert landfill	0.012	0.012	0.011	0.011	0.011	0.011	0.010	0.010	0.010	0.009	0.009	0.009	0.008	0.008	0.008	0.008	0.007	0.007	0.007	0.007	0.006
CHECK COUNTER (should be zero)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
hazardous Hazardous waste	0.011	0.011	0.011	0.011	0.012	0.012	0.012	0.013	0.013	0.013	0.013	0.013	0.014	0.014	0.014	0.014	0.014	0.015	0.015	0.015	0.015

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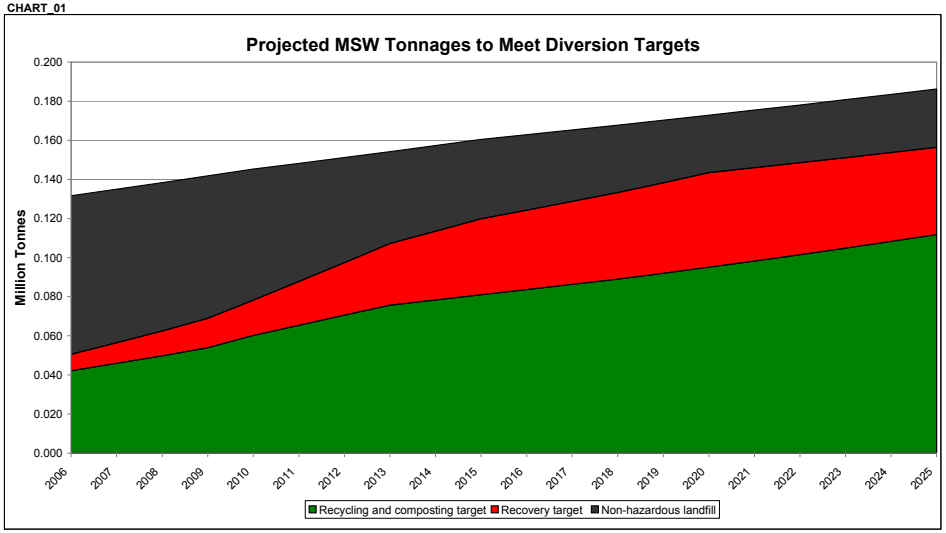
DATA_06: TOTAL WASTE TONNAGES TO MEET TARGETS (Million Tonnes)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
MSW and C&I recycling and composting target	0.048	0.053	0.057	0.062	0.067	0.074	0.080	0.085	0.091	0.094	0.098	0.101	0.104	0.107	0.111	0.115	0.118	0.122	0.126	0.130	0.134
C&D recycling target	0.028	0.029	0.030	0.030	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.033	0.034	0.035	0.036	0.038	0.038	0.038	0.038	0.038	0.038
MSW and C&I recovery target	0.010	0.012	0.014	0.017	0.019	0.022	0.027	0.032	0.037	0.041	0.045	0.047	0.049	0.051	0.053	0.055	0.055	0.054	0.053	0.052	0.051
C&D recovery target	0.023	0.022	0.022	0.021	0.021	0.021	0.021	0.021	0.022	0.022	0.023	0.022	0.021	0.020	0.019	0.018	0.018	0.018	0.018	0.019	0.019
Non-hazardous landfill	0.095	0.092	0.089	0.086	0.083	0.077	0.070	0.063	0.055	0.052	0.048	0.046	0.044	0.041	0.039	0.036	0.036	0.035	0.035	0.035	0.035
Inert landfill	0.012	0.012	0.011	0.011	0.011	0.011	0.010	0.010	0.010	0.009	0.009	0.009	0.008	0.008	0.008	0.008	0.007	0.007	0.007	0.007	0.006
Hazardous waste	0.011	0.011	0.011	0.011	0.012	0.012	0.012	0.013	0.013	0.013	0.013	0.013	0.014	0.014	0.014	0.014	0.014	0.015	0.015	0.015	0.015

CHART_01



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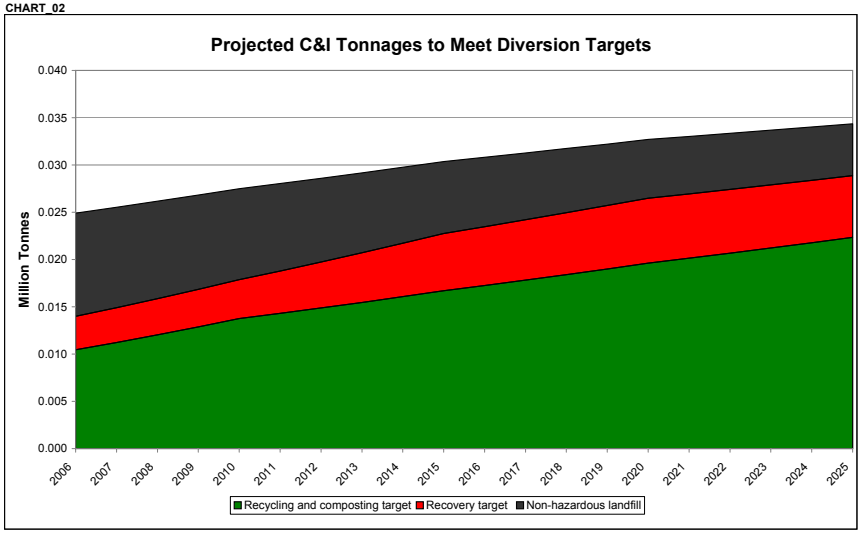

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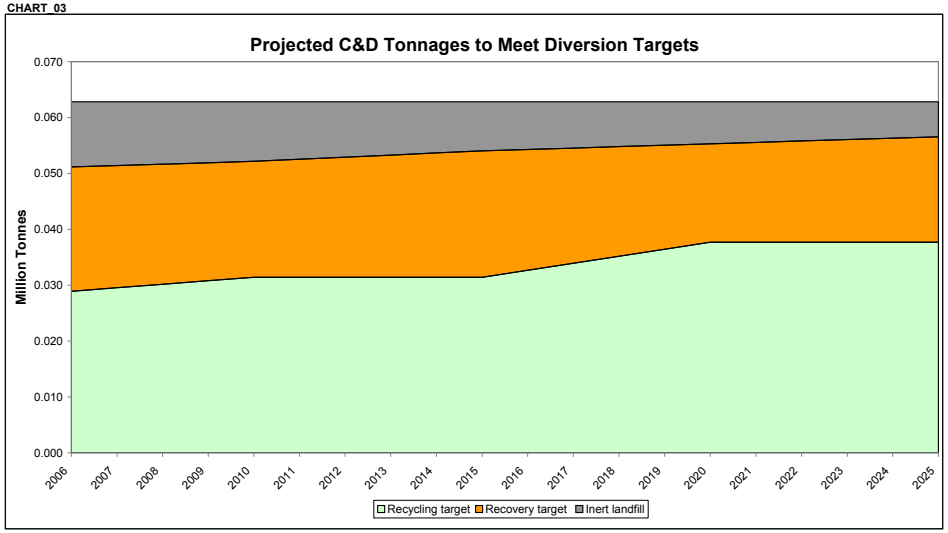

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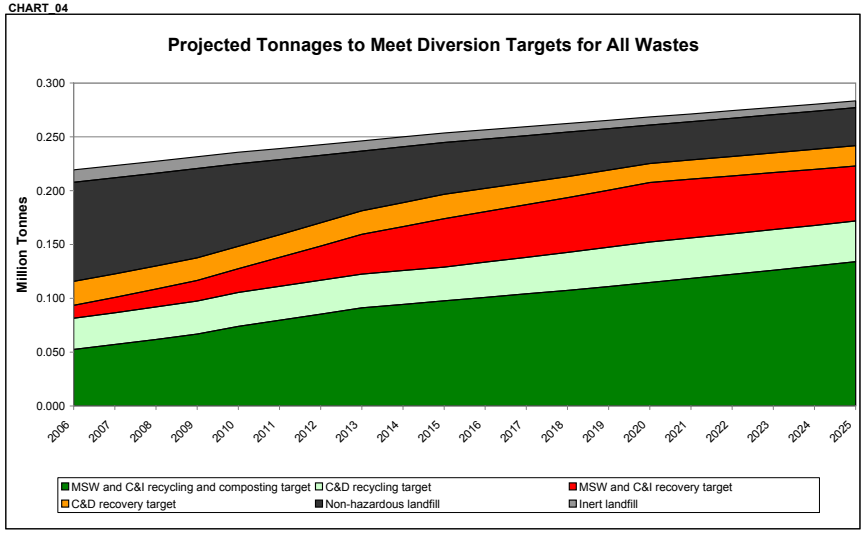

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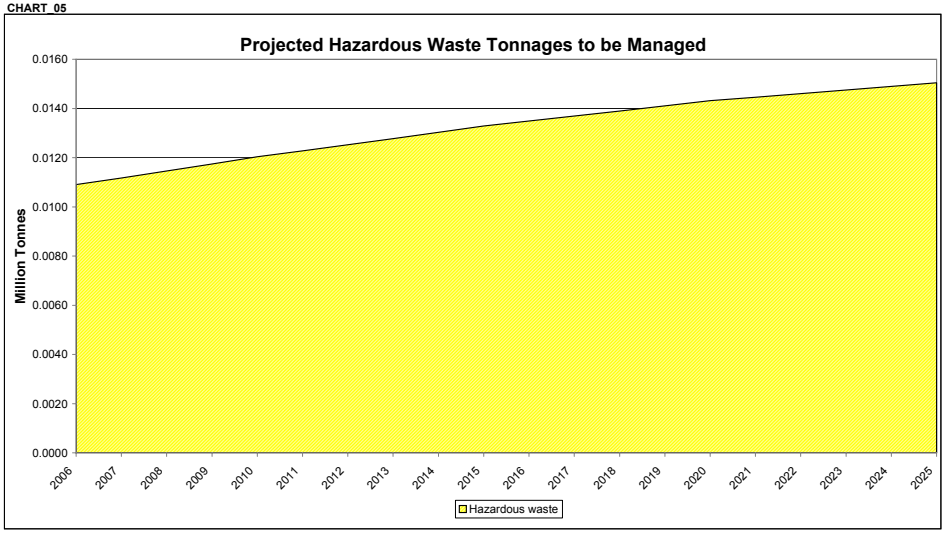
CHART_05



DATA_07: EXISTING/PLANNED CAPACITY FOR RECYCLING, RECOVERY AND LANDFILLING AND TOTAL WASTE TONNAGES TO EACH DISPOSAL ROUTE (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
MSW and C&I recovery																					
MSW and C&I incineration (non-specialist)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
MSW and C&I treatment	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075
Total existing/planned MSW and C&I recovery capacity	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075
Total MSW waste required to meet target	0.006	0.008	0.011	0.013	0.015	0.018	0.022	0.027	0.032	0.035	0.039	0.041	0.042	0.044	0.046	0.048	0.048	0.047	0.046	0.045	0.045
Total C&I waste required to meet target	0.003	0.004	0.004	0.004	0.004	0.004	0.004	0.005	0.005	0.006	0.006	0.006	0.006	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007
Surplus/deficit capacity	0.065	0.063	0.061	0.058	0.056	0.053	0.048	0.043	0.038	0.034	0.030	0.028	0.026	0.024	0.022	0.020	0.020	0.021	0.022	0.023	0.024
MSW and C&I recycling and composting																					
MSW and C&I recycling	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186
MSW and C&I transfer	0.169	0.169	0.169	0.169	0.169	0.169	0.169	0.169	0.169	0.169	0.169	0.169	0.169	0.169	0.169	0.169	0.169	0.169	0.169	0.169	0.169
Total existing/planned composting capacity	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025
(1) Total existing/planned MSW and C&I recycling and composting capacity (Baseline: 20% of transfer capacity delivers recycling)	0.245	0.245	0.245	0.245	0.245	0.245	0.245	0.245	0.245	0.245	0.245	0.245	0.245	0.245	0.245	0.245	0.245	0.245	0.245	0.245	0.245
(2) Total existing/planned MSW and C&I recycling and composting capacity (Sensitivity: 5% of transfer capacity delivers recycling)	0.219	0.219	0.219	0.219	0.219	0.219	0.219	0.219	0.219	0.219	0.219	0.219	0.219	0.219	0.219	0.219	0.219	0.219	0.219	0.219	0.219
Total MSW waste required to meet recycling and composting target	0.039	0.042	0.046	0.050	0.054	0.060	0.065	0.071	0.076	0.078	0.081	0.084	0.086	0.089	0.092	0.095	0.098	0.101	0.105	0.108	0.112
Total C&I waste required to meet recycling and composting target	0.010	0.010	0.011	0.012	0.013	0.014	0.014	0.015	0.015	0.016	0.017	0.017	0.018	0.018	0.019	0.020	0.020	0.021	0.021	0.022	0.022
Surplus/deficit capacity (Baseline: 20% of transfer capacity delivers recycling)	0.197	0.192	0.188	0.183	0.178	0.171	0.165	0.159	0.154	0.151	0.147	0.144	0.141	0.137	0.134	0.130	0.126	0.123	0.119	0.115	0.111
Surplus/deficit capacity (Sensitivity: 5% of transfer capacity delivers recycling)	0.171	0.167	0.162	0.158	0.153	0.146	0.140	0.134	0.128	0.125	0.122	0.119	0.115	0.112	0.108	0.105	0.101	0.097	0.093	0.089	0.085
C&D recycling																					
Total existing/planned C&D recycling capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total waste required to meet C&D recycling target	0.028	0.029	0.030	0.030	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.033	0.034	0.035	0.036	0.038	0.038	0.038	0.038	0.038	0.038
Surplus/deficit capacity	-0.028	-0.029	-0.030	-0.030	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031	-0.033	-0.034	-0.035	-0.036	-0.038	-0.038	-0.038	-0.038	-0.038	-0.038
C&D recovery																					
(3) REGIONAL total existing/planned C&D recovery capacity	1.877	1.794	1.710	1.627	1.544	1.460	1.439	1.418	1.398	1.377	1.356	1.325	1.293	1.262	1.231	1.199	1.220	1.241	1.262	1.283	1.304
Sub-regional total waste required to meet C&D recovery target	0.023	0.022	0.022	0.021	0.021	0.021	0.021	0.021	0.022	0.022	0.023	0.022	0.021	0.020	0.019	0.018	0.018	0.018	0.018	0.019	0.019
Surplus/deficit capacity	1.855	1.772	1.689	1.605	1.522	1.439	1.418	1.397	1.376	1.354	1.333	1.303	1.273	1.242	1.212	1.182	1.202	1.223	1.244	1.264	1.285
Hazardous waste recycling																					
Total existing/planned hazardous waste recycling capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total hazardous waste to be recycled	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Surplus/deficit capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hazardous waste recovery																					
Total existing/planned hazardous waste recovery capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total hazardous waste to be recovered	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Surplus/deficit capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Non-hazardous landfill																					
Available non-hazardous landfill capacity (excluding residues from MSW and C&I recovery)		22.000	21.724	21.454	21.192	20.936	20.689	20.457	20.241	20.039	19.849	19.671	19.499	19.334	19.175	19.022	18.877	18.733	18.591	18.450	18.310
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'Incineration (non-specialist)'		22.000	21.722	21.450	21.185	20.926	20.677	20.441	20.219	20.012	19.816	19.631	19.452	19.280	19.113	18.953	18.799	18.647	18.496	18.347	18.200
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'MBT'		22.000	21.717	21.439	21.166	20.899	20.640	20.392	20.157	19.933	19.719	19.514	19.315	19.121	18.932	18.748	18.570	18.394	18.220	18.048	17.877
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'RDF'		22.000	21.722	21.451	21.186	20.928	20.679	20.444	20.224	20.017	19.823	19.639	19.462	19.290	19.125	18.967	18.814	18.664	18.515	18.368	18.222
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'treatment'		22.000	21.719	21.443	21.172	20.908	20.651	20.408	20.177	19.958	19.750	19.552	19.359	19.171	18.989	18.813	18.643	18.474	18.308	18.143	17.980
Total MSW and C&I waste sent direct to non-hazardous landfill		0.092	0.089	0.086	0.083	0.077	0.070	0.063	0.055	0.052	0.048	0.046	0.044	0.041	0.039	0.036	0.036	0.035	0.035	0.035	0.035
Inert landfill																					
Available inert landfill capacity		1.128	1.116	1.105	1.094	1.083	1.072	1.062	1.052	1.042	1.033	1.024	1.016	1.007	0.999	0.992	0.984	0.977	0.970	0.963	0.956
Available inert landfill capacity assuming all MSW and C&I recovery by 'Incineration (non-specialist)'		1.128	1.115	1.101	1.087	1.074	1.059	1.045	1.030	1.015	1.000	0.985	0.969	0.953	0.938	0.922	0.906	0.891	0.876	0.861	0.846
Total C&D waste sent direct to inert landfill (excludes residues from MSW and C&I recovery)	0.012	0.012	0.011	0.011	0.011	0.011	0.010	0.010	0.010	0.009	0.009	0.009	0.008	0.008	0.008	0.008	0.007	0.007	0.007	0.007	0.006
Hazardous landfill																					
Available hazardous landfill capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total hazardous waste sent direct to hazardous landfill	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Other																					
Metal/ELV facility	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055
Ignored	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Closed	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

(1) ERM has assumed that 20% of the total "transfer' capacity will deliver recycling capacity
(2) ERM has assumed that 5% of the total "transfer' capacity will deliver recycling capacity
(3) Data for C&D recovery for landfill cover for the SE Region were sourced from the original MEL model, which sourced the data from Symonds (2001)
Landfill capacity data for 2005 were adapted from *Table R* in the ERM data template for each sub-region

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DATA_08: RESIDUE RATES (%)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Recovery residues (% by weight)																					
MSW and C&I incineration (non-specialist) - bottom ash	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
MSW and C&I incineration (non-specialist) - fly ash	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
MSW and C&I to MBT	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59
MSW and C&I to RDF	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
MSW and C&I treatment - non-hazardous	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45
MSW and C&I treatment - hazardous	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Hazardous waste recovery	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Recycling residues (% by weight)																					
MSW and C&I recycling	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
MSW and C&I transfer	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
MSW and C&I composting	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
C&D recycling	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Hazardous waste recycling	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Other																					
Metal/ELV facility	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Ignored	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Closed	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Note: All residues are calculated on the amount of waste arising not on the maount of capacity available. This is complaince with the self-sufficiency requirements of PPS10.

DATA_09: TOTAL RESIDUE (Million Tonnes)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Recovery residues (of waste managed):																					
MSW and C&I incineration (non-specialist) - bottom ash	0.003	0.004	0.004	0.005	0.006	0.007	0.008	0.010	0.011	0.012	0.013	0.014	0.015	0.015	0.016	0.017	0.016	0.016	0.016	0.016	0.015
MSW and C&I incineration (non-specialist) - fly ash	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
MSW and C&I to MBT	0.006	0.007	0.008	0.010	0.011	0.013	0.016	0.019	0.022	0.024	0.027	0.028	0.029	0.030	0.031	0.033	0.032	0.032	0.031	0.031	0.030
MSW and C&I to RDF	0.001	0.001	0.002	0.002	0.002	0.003	0.003	0.004	0.004	0.005	0.005	0.006	0.006	0.006	0.006	0.007	0.007	0.006	0.006	0.006	0.006
MSW and C&I treatment - non-hazardous	0.004	0.005	0.006	0.007	0.009	0.010	0.012	0.014	0.017	0.018	0.020	0.021	0.022	0.023	0.024	0.025	0.025	0.024	0.024	0.023	0.023
MSW and C&I treatment - hazardous	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
Hazardous waste recovery	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Recycling residues (of waste managed):																					
MSW and C&I recycling and composting	0.007	0.008	0.009	0.009	0.010	0.011	0.012	0.013	0.014	0.014	0.015	0.015	0.016	0.016	0.017	0.017	0.018	0.018	0.019	0.020	0.020
C&D recycling	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
Hazardous waste recycling	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Note: All residues are calculated on the amount of waste arising not on the maount of capacity available. This is complaince with the self-sufficiency requirements of PPS10.

DATA_10: TOTAL MSW AND C&I RESIDUE FROM RECYCLING SENT TO NON-HAZARDOUS LANDFILL (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Total MSW and C&I recycling and composting residue sent to non-hazardous landfill	0.010	0.011	0.012	0.012	0.013	0.014	0.015	0.016	0.017	0.017	0.018	0.018	0.019	0.020	0.020	0.021	0.022	0.022	0.023	0.023	0.024

DATA_11: TOTAL MSW AND C&I RESIDUE FROM RECOVERY SENT TO NON-HAZARDOUS LANDFILL AND C&D RECYCLING (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
SCENARIO 1 - Assumes all recovery is by 'Non-specialist incineration' (based on total recovery capacity)																					
(1) Total MSW and C&I residue sent to non-hazardous landfill assuming all MSW and C&I recovery by 'Non-specialist incineration'	0.001	0.002	0.002	0.002	0.003	0.003	0.004	0.005	0.006	0.006	0.007	0.007	0.007	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
(1) Total MSW and C&I residue sent to inert landfill assuming all MSW and C&I recovery by 'Non-specialist incineration'	0.001	0.002	0.002	0.002	0.003	0.003	0.004	0.005	0.006	0.006	0.007	0.007	0.007	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
SCENARIO 2 - Assumes all recovery is by 'MBT' (based on total recovery capacity)																					
Total MSW and C&I residue sent to non-hazardous landfill	0.006	0.007	0.008	0.010	0.011	0.013	0.016	0.019	0.022	0.024	0.027	0.028	0.029	0.030	0.031	0.033	0.032	0.032	0.031	0.031	0.030
SCENARIO 3 - Assumes all recovery is by 'RDF' (based on total recovery capacity)																					
Total MSW and C&I residue sent to non-hazardous landfill	0.001	0.001	0.002	0.002	0.002	0.003	0.003	0.004	0.004	0.005	0.005	0.006	0.006	0.006	0.006	0.007	0.007	0.006	0.006	0.006	0.006
SCENARIO 4 - Assumes all recovery is by 'treatment' (based on total recovery capacity)																					
(2) Total MSW and C&I residue sent to non-hazardous landfill	0.004	0.005	0.006	0.007	0.009	0.010	0.012	0.014	0.017	0.018	0.020	0.021	0.022	0.023	0.024	0.025	0.025	0.024	0.024	0.023	0.023

(1) It was assumed that 50% of residue from 'non-specialist incineration' is sent to non-hazardous landfill and 50% is sent to inert landfill. In the original model assumptions developed MEL 50% was assumed to go to C&D recycling, rather than to inert landfi

DATA_12: TONNAGES OF C&D REUSED ON NON-HAZARDOUS AND INERT LANDFILL (Million Tonnes)

(1) C&D reused on landfill sites	39 %
(1) C&D reused on exempt sites	61 %
(1) C&D reused on landfill sites sent to 'non-haz landfill'	30 %
(1) C&D reused on landfill sites sent to 'inert landfill'	70 %

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
c&d	Total C&D reused on non-hazardous landfill	0.003	0.003	0.003	0.003	0.002	0.002	0.002	0.003	0.003	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
	Total reused C&D on inert landfill	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005

(1) C&D reuse rates based on original model assumptions developed MEL
NOTE: C&D reuse on inert and non-hazardous landfill is not included within the charts because it has been assumed that data supplied by each sub-region has accounted for C&D reuse as an engineering material.

DATA_13: TOTAL MSW AND C&I RESIDUE FROM RECYCLING SENT TO HAZARDOUS LANDFILL (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Total MSW and C&I recycling and composting residue sent to hazardous landfill	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

DATA_14: TOTAL MSW AND C&I RESIDUE FROM RECOVERY SENT TO HAZARDOUS LANDFILL (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
SCENARIO 1 - Assumes all recovery is by 'Non-specialist incineration' (based on total recovery capacity)																					
Total MSW and C&I residue sent to hazardous landfill assuming all MSW and C&I recovery by 'Non-specialist incineration'	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
SCENARIO 2 - Assumes all recovery is by 'MBT' (based on total recovery capacity)																					
Total MSW and C&I residue sent to hazardous landfill	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SCENARIO 3 - Assumes all recovery is by 'RDF' (based on total recovery capacity)																					
Total MSW and C&I residue sent to hazardous landfill	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SCENARIO 4 - Assumes all recovery is by 'treatment' (based on total recovery capacity)																					
Total MSW and C&I residue sent to hazardous landfill	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003

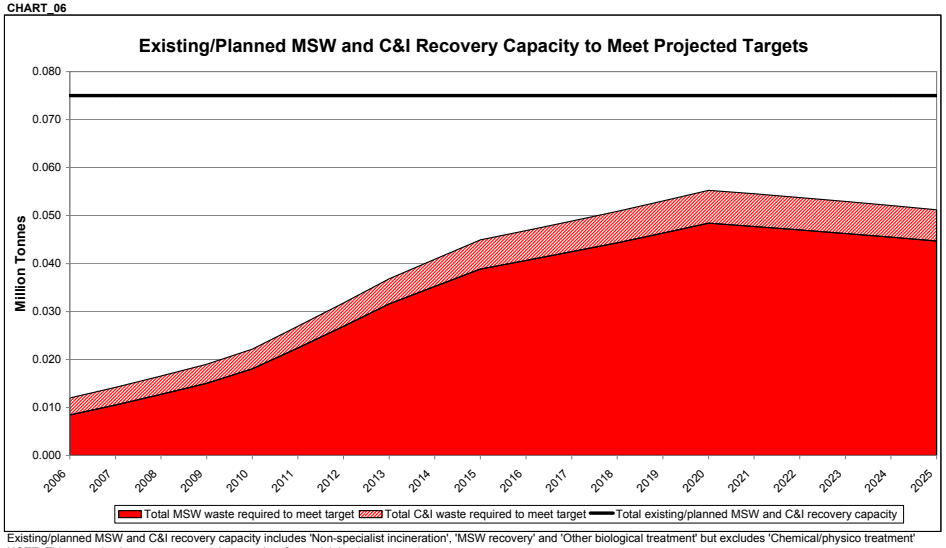
NOTE: This element of the model is redundant. There is currently no hazardous waste capacity figures to generate a chart of managed waste versus available capacity.

Milton Keynes

DATA_15: TOTAL HAZARDOUS WASTE RESIDUE FROM RECOVERY AND RECYCLING SENT TO HAZARDOUS LANDFILL (Million Tonnes)

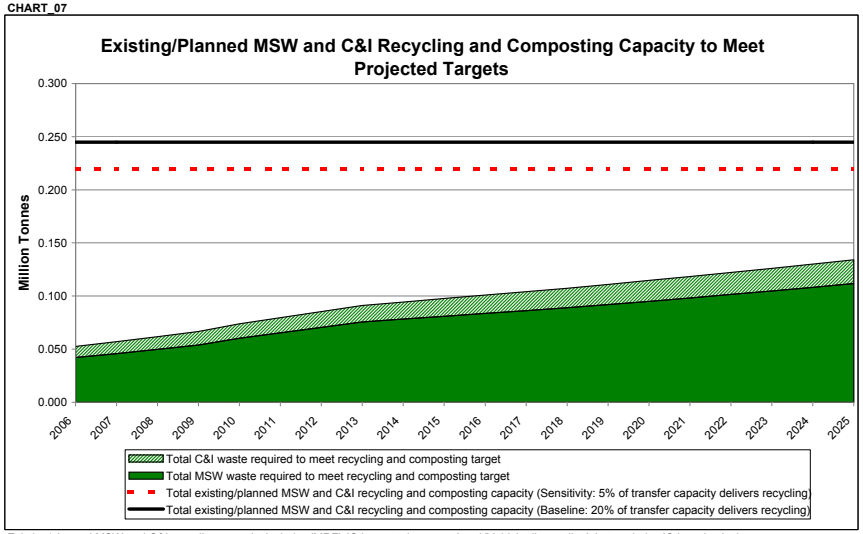
	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Total hazardous waste recycling and recovery residue sent to hazardous landfill	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

CHART_06



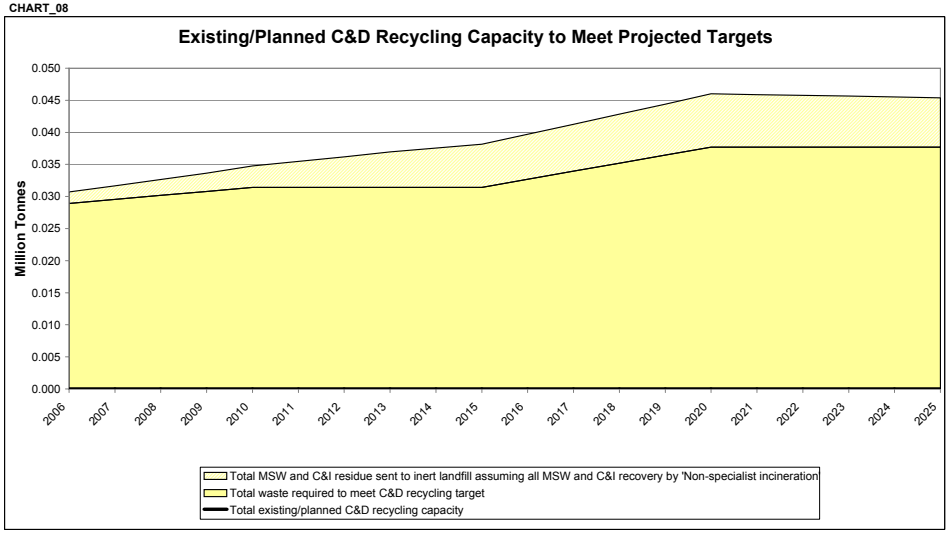
Existing/planned MSW and C&I recovery capacity includes 'Non-specialist incineration', 'MSW recovery' and 'Other biological treatment' but excludes 'Chemical/physico treatment'
NOTE: This capacity does not represent the quantity of material that is recovered.
NOTE: The original MEL model assumes that 'MSW recovery' capacity is incineration - but this is not made explicit.

CHART_07



Existing/planned MSW and C&I recycling capacity includes 'MRF', 'Other metal recovery' and 'Vehicle dismantling', but excludes 'Other physical treatment' (because this category includes CA sites)
NOTE: This capacity does not represent the quantity of material that is recycled and composted.

CHART_08



Milton Keynes

CHART_09

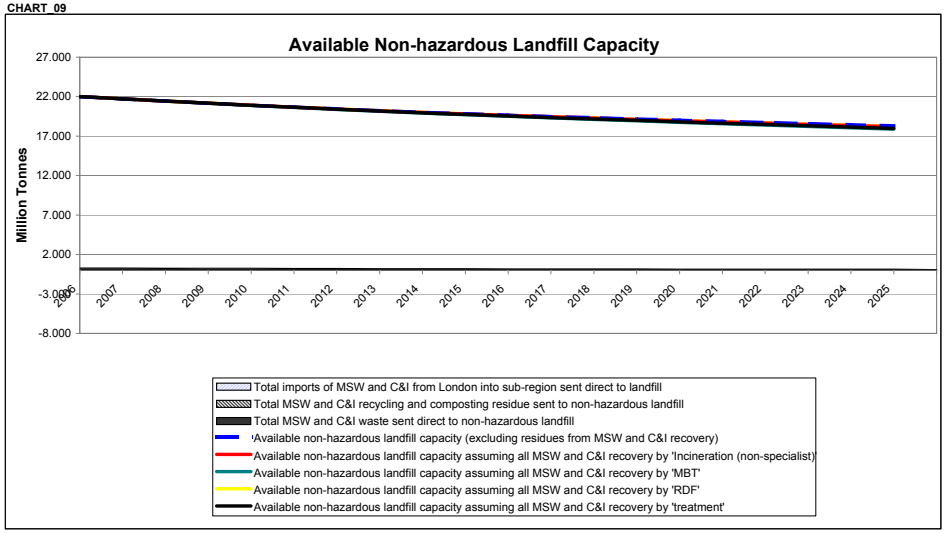
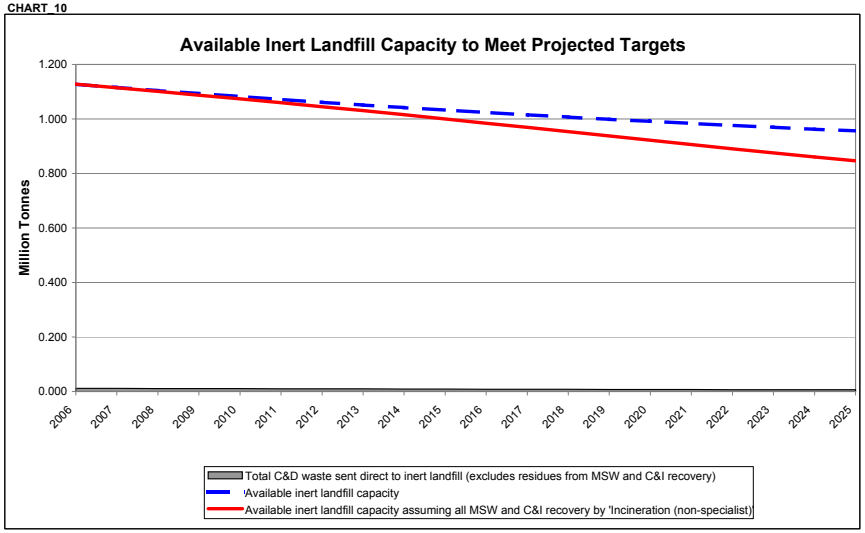


CHART_10



Oxfordshire

SUMMARY DATA AND RESULTS FOR OXFORDSHIRE

MANAGED WASTE USED TO GENERATE RESULTS (Million Tonnes)	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	0.346	0.354	0.363	0.372	0.382	0.389	0.397	0.405	0.413	0.421	0.428	0.434	0.441	0.447	0.454	0.461	0.468	0.475	0.482	0.489
msw - imports from london that are sent direct to non-hazardous landfill	0.108	0.106	0.103	0.100	0.097	0.092	0.086	0.081	0.076	0.070	0.067	0.064	0.061	0.058	0.056	0.054	0.053	0.052	0.051	0.050
c&i	0.585	0.599	0.614	0.630	0.646	0.658	0.672	0.685	0.699	0.713	0.723	0.734	0.745	0.756	0.768	0.776	0.783	0.791	0.799	0.807
c&i - imports from london that are sent direct to non-hazardous landfill	0.183	0.179	0.174	0.169	0.165	0.155	0.146	0.137	0.128	0.119	0.114	0.109	0.104	0.099	0.094	0.092	0.089	0.087	0.085	0.083
c&d	0.755	0.755	0.755	0.755	0.755	0.755	0.755	0.755	0.755	0.755	0.755	0.755	0.755	0.755	0.755	0.755	0.755	0.755	0.755	0.755
hazardous	0.051	0.052	0.054	0.055	0.056	0.058	0.059	0.060	0.061	0.062	0.063	0.064	0.065	0.066	0.067	0.068	0.068	0.069	0.070	0.071

WASTE STREAM TONNAGES TO MEET TARGETS (Million Tonnes)		2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	LATS shortfall (how much extra is landfilled above LATS target)	-0.029	-0.024	-0.018	-0.009	*0.003*	*0.007*	*0.011*	*0.015*	*0.008*	*0.000*	0.000	-0.001	-0.002	-0.003	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004
	Recycling and composting target	0.111	0.120	0.131	0.141	0.155	0.169	0.183	0.197	0.204	0.211	0.218	0.226	0.234	0.241	0.250	0.258	0.267	0.275	0.284	0.293
	Recovery target	0.022	0.028	0.033	0.039	0.046	0.058	0.070	0.082	0.092	0.101	0.106	0.111	0.116	0.122	0.127	0.125	0.123	0.122	0.119	0.117
	Non-hazardous landfill	0.213	0.206	0.199	0.191	0.180	0.162	0.144	0.126	0.118	0.109	0.103	0.097	0.091	0.084	0.077	0.077	0.078	0.078	0.078	0.078
c&i	Recycling and composting target	0.246	0.264	0.283	0.302	0.323	0.336	0.349	0.363	0.377	0.392	0.405	0.419	0.432	0.446	0.461	0.473	0.486	0.498	0.511	0.525
	Recovery target	0.083	0.086	0.090	0.093	0.097	0.105	0.114	0.123	0.133	0.143	0.146	0.150	0.154	0.157	0.161	0.160	0.158	0.157	0.155	0.153
	Non-hazardous landfill	0.256	0.249	0.242	0.234	0.226	0.217	0.208	0.199	0.189	0.178	0.172	0.166	0.159	0.153	0.146	0.143	0.139	0.136	0.133	0.129
c&d	Recycling target	0.347	0.355	0.362	0.370	0.377	0.377	0.377	0.377	0.377	0.377	0.393	0.408	0.423	0.438	0.453	0.453	0.453	0.453	0.453	0.453
	Recovery target	0.267	0.263	0.258	0.254	0.249	0.254	0.258	0.263	0.267	0.272	0.260	0.248	0.236	0.223	0.211	0.214	0.217	0.220	0.223	0.226
	Inert landfill	0.140	0.137	0.134	0.131	0.128	0.124	0.119	0.115	0.110	0.106	0.103	0.100	0.097	0.094	0.091	0.088	0.085	0.082	0.079	0.075
hazardous	Hazardous waste	0.051	0.052	0.054	0.055	0.056	0.058	0.059	0.060	0.061	0.062	0.063	0.064	0.065	0.066	0.067	0.068	0.068	0.069	0.070	0.071

Note: If there is a LATS shortfall, denoted by a positive number, (ie insufficient allowance to landfill non-diverted waste) then the model assumes that this extra waste is recycled/composted and recovered at the same ratio as the regional targets for recycling/composting and recovery for that year.

EXISTING/PLANNED CAPACITY FOR RECYCLING, RECOVERY AND LANDFILLING AND TOTAL WASTE TONNAGES TO EACH DISPOSAL ROUTE (Million Tonnes)	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
MSW and C&I recovery																				
Total existing/planned MSW and C&I recovery capacity	0.150	0.150	0.150	0.150	0.150	0.150	0.150	0.150	0.150	0.150	0.150	0.150	0.150	0.150	0.150	0.150	0.150	0.150	0.150	0.150
Surplus/deficit capacity	0.045	0.036	0.027	0.017	0.007	-0.013	-0.034	-0.055	-0.074	-0.094	-0.102	-0.111	-0.120	-0.129	-0.138	-0.135	-0.132	-0.128	-0.124	-0.121
MSW and C&I recycling and composting																				
Total existing/planned MSW and C&I recycling and composting capacity (Baseline: 20% of transfer capacity delivers recycling)	0.814	0.814	0.814	0.814	0.814	0.814	0.814	0.814	0.814	0.814	0.814	0.814	0.814	0.814	0.814	0.814	0.814	0.814	0.814	0.814
Total existing/planned MSW and C&I recycling and composting capacity (Sensitivity: 5% of transfer capacity delivers recycling)	0.776	0.776	0.776	0.776	0.776	0.776	0.776	0.776	0.776	0.776	0.776	0.776	0.776	0.776	0.776	0.776	0.776	0.776	0.776	0.776
Surplus/deficit capacity (Baseline: 20% of transfer capacity delivers recycling)	0.458	0.430	0.401	0.371	0.337	0.310	0.282	0.255	0.233	0.212	0.191	0.170	0.149	0.127	0.104	0.083	0.062	0.041	0.019	-0.003
Surplus/deficit capacity (Sensitivity: 5% of transfer capacity delivers recycling)	0.419	0.391	0.362	0.332	0.298	0.271	0.244	0.216	0.195	0.173	0.152	0.131	0.110	0.088	0.065	0.045	0.024	0.002	-0.020	-0.042
C&D recycling																				
Total existing/planned C&D recycling capacity	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107
Surplus/deficit capacity	-0.240	-0.247	-0.255	-0.262	-0.270	-0.270	-0.270	-0.270	-0.270	-0.270	-0.285	-0.300	-0.315	-0.330	-0.345	-0.345	-0.345	-0.345	-0.345	-0.345
C&D recovery																				
REGIONAL total existing/planned C&D recovery capacity	1.794	1.710	1.627	1.544	1.460	1.439	1.418	1.398	1.377	1.356	1.325	1.293	1.262	1.231	1.199	1.220	1.241	1.262	1.283	1.304
Surplus/deficit capacity	1.527	1.448	1.369	1.290	1.211	1.186	1.160	1.135	1.109	1.084	1.065	1.046	1.026	1.007	0.988	1.006	1.024	1.041	1.059	1.077
Hazardous waste recycling																				
Total existing/planned hazardous waste recycling capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Surplus/deficit capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hazardous waste recovery																				
Total existing/planned hazardous waste recovery capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Surplus/deficit capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Non-hazardous landfill																				
Available non-hazardous landfill capacity (excluding residues from MSW and C&I recovery)	11.110	10.261	9.428	8.612	7.813	7.036	6.296	5.593	4.929	4.294	3.690	3.100	2.527	1.969	1.428	0.903	0.382	-0.136	-0.651	-1.162
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'Incineration (non-specialist)'	11.096	10.231	9.381	8.546	7.728	6.929	6.164	5.434	4.738	4.070	3.429	2.802	2.189	1.591	1.008	0.440	-0.124	-0.684	-1.240	-1.793
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'MBT'	11.053	10.142	9.242	8.353	7.476	6.614	5.778	4.966	4.181	3.414	2.665	1.927	1.200	0.483	-0.223	-0.918	-1.607	-2.291	-2.970	-3.643
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'RDF'	11.099	10.237	9.390	8.559	7.745	6.950	6.190	5.466	4.776	4.115	3.481	2.862	2.257	1.667	1.092	0.533	-0.023	-0.574	-1.122	-1.667
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'treatment'	11.067	10.170	9.286	8.414	7.556	6.714	5.900	5.115	4.358	3.622	2.908	2.206	1.515	0.836	0.169	-0.485	-1.135	-1.780	-2.420	-3.054
Inert landfill																				
Available inert landfill capacity	4.132	3.992	3.854	3.720	3.589	3.460	3.336	3.217	3.102	2.992	2.886	2.784	2.684	2.587	2.494	2.403	2.316	2.231	2.150	2.071
Available inert landfill capacity assuming all MSW and C&I recovery by 'Incineration (non-specialist)'	4.118	3.961	3.807	3.654	3.503	3.353	3.205	3.058	2.912	2.768	2.626	2.486	2.347	2.210	2.074	1.940	1.810	1.683	1.560	1.440
Hazardous landfill																				
Available hazardous landfill capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Note: The model does not contain data for the management of hazardous waste.

DATA_01: ARISINGS AND GROWTH RATES OF MSW, C&I AND HAZARDOUS WASTE (Million Tonnes)		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	Arisings of MSW in baseline year																					
	(1) Forecast regional level growth rate of MSW - per year (%)	3.0%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%
	(1) Forecast regional level growth rate of MSW - cumulative (%)	109%	112%	115%	118%	121%	124%	126%	129%	131%	134%	136%	139%	141%	143%	145%	147%	149%	151%	154%	156%	158%
	Total arisings of MSW using regional growth forecasts	0.337	0.346	0.354	0.363	0.372	0.382	0.389	0.397	0.405	0.413	0.421	0.428	0.434	0.441	0.447	0.454	0.461	0.468	0.475	0.482	0.489
	(1) Forecast sub-regional growth rate of MSW - per year (%)	3.0%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%
	(1) Forecast sub-regional level growth rate of MSW - cumulative (%)	109%	112%	115%	118%	121%	124%	126%	129%	131%	134%	136%	139%	141%	143%	145%	147%	149%	151%	154%	156%	158%
	Total arisings of MSW using sub-regional growth forecasts	0.337	0.346	0.354	0.363	0.372	0.382	0.389	0.397	0.405	0.413	0.421	0.428	0.434	0.441	0.447	0.454	0.461	0.468	0.475	0.482	0.489
c&i	Arisings of C&I in baseline year																					
	(1) Forecast regional level growth rate of C&I - per year (%)	3.3%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.0%	1.0%	1.0%	1.0%	1.0%
	(1) Forecast regional level growth rate of C&I - cumulative (%)	117%	120%	123%	126%	130%	133%	136%	138%	141%	144%	147%	149%	151%	153%	156%	158%	160%	161%	163%	164%	166%
	Total arisings of C&I using regional growth forecasts	0.571	0.585	0.599	0.614	0.630	0.646	0.658	0.672	0.685	0.699	0.713	0.723	0.734	0.745	0.756	0.768	0.776	0.783	0.791	0.799	0.807
	(1) Forecast sub-regional level growth rate of C&I - per year (%)	3.3%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.0%	1.0%	1.0%	1.0%	1.0%
	(1) Forecast sub-regional level growth rate of C&I - cumulative (%)	117%	120%	123%	126%	130%	133%	136%	138%	141%	144%	147%	149%	151%	153%	156%	158%	160%	161%	163%	164%	166%
	Total arisings of C&I using sub-regional growth forecasts	0.571	0.585	0.599	0.614	0.630	0.646	0.658	0.672	0.685	0.699	0.713	0.723	0.734	0.745	0.756	0.768	0.776	0.783	0.791	0.799	0.807
hazardous	Arisings of hazardous waste in baseline year																					
	(2) Forecast regional level growth rate of hazardous waste - per year (%)	3.3%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.0%	1.0%	1.0%	1.0%	1.0%
	Forecast regional level growth rate of hazardous waste - cumulative (%)	107%	109%	112%	115%	118%	121%	123%	126%	128%	131%	133%	135%	137%	139%	141%	144%	145%	146%	148%	149%	151%
	Total arisings of hazardous waste	0.050	0.051	0.052	0.054	0.055	0.056	0.058	0.059	0.060	0.061	0.062	0.063	0.064	0.065	0.066	0.067	0.068	0.068	0.069	0.070	0.071
	(2) Forecast sub-regional level growth rate of hazardous waste - per year (%)	3.3%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.0%	1.0%	1.0%	1.0%	1.0%
	Forecast sub regional level growth rate of hazardous waste - cumulative (%)	107%	109%	112%	115%	118%	121%	123%	126%	128%	131%	133%	135%	137%	139%	141%	144%	145%	146%	148%	149%	151%
	Total arisings of hazardous waste	0.050	0.051	0.052	0.054	0.055	0.056	0.058	0.059	0.060	0.061	0.062	0.063	0.064	0.065	0.066	0.067	0.068	0.068	0.069	0.070	0.071
c&d	Total managed C&D in baseline year																					
	(3) Forecast regional-level growth rate of managed C&D - per year (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Forecast regional-level growth rate of managed C&D - cumulative (%)	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
	(3) Total managed of C&D for the sub-region	0.755	0.755	0.755	0.755	0.755	0.755	0.755	0.755	0.755	0.755	0.755	0.755	0.755	0.755	0.755	0.755	0.755	0.755	0.755	0.755	0.755

(1) Figures from SEERA updated waste capacity model by ERM in 2005.
(2) Baseline year of hazardous waste arisings is 2003 from EA Hazardous Waste Interrogator. www.environment-agency.gov.uk/apps/wastesurvey2/. ERM has assumed that growth in hazardous waste is equal to C&I waste.
(3) These data represent managed C&D waste in the sub-region, including all intra-regional and inter-regional movements. Growth is assumed to be zero from the orginal MEL study and updated modeted by ERM in 2005.
NOTE: C&D waste is not included in arisings because this was taken from survey data by Symonds 2001 which gave values for managed C&D waste.

Oxfordshire

Figure in blue represent data supplied by each sub-region for the new '2006 SEERA Capacity and Need Model'
Figures in orange represent managed waste that are used by the model to calculate results. These can be adjusted for different scenarios.

DATA_02: INTER REGIONAL MOVEMENTS OF MSW and C&I (Million Tonnes)		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw and c&i	Regional level imports of MSW and C&I waste into the SE region from London	1.76	1.716	1.672	1.628	1.584	1.54	1.454	1.368	1.282	1.196	1.11	1.064	1.018	0.972	0.926	0.88	0.86	0.84	0.82	0.8	0.78
	Proportion of regional MSW and C&I imports that go to the sub-region (%)	17.0%	17.0%	17.0%	17.0%	17.0%	17.0%	17.0%	17.0%	17.0%	17.0%	17.0%	17.0%	17.0%	17.0%	17.0%	17.0%	17.0%	17.0%	17.0%	17.0%	17.0%
	(1) Total imports of MSW and C&I from London into sub-region sent direct to landfill	0.299	0.292	0.284	0.277	0.269	0.262	0.247	0.233	0.218	0.203	0.189	0.181	0.173	0.165	0.157	0.150	0.146	0.143	0.139	0.136	0.133
msw	Proportion of total MSW and C&I imports that are MSW (%) - REGIONAL GROWTH FORECAST	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	38%	38%
	Total imports of MSW into the sub-region from London - REGIONAL GROWTH FORECAST	0.111	0.108	0.106	0.103	0.100	0.097	0.092	0.086	0.081	0.076	0.070	0.067	0.064	0.061	0.058	0.056	0.054	0.053	0.052	0.051	0.050
	Proportion of total MSW and C&I imports that are MSW (%) - SUB-REGIONAL GROWTH FORECAST	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	38%	38%
	Total imports of MSW into the sub-region from London - SUB-REGIONAL GROWTH FORECAST	0.111	0.108	0.106	0.103	0.100	0.097	0.092	0.086	0.081	0.076	0.070	0.067	0.064	0.061	0.058	0.056	0.054	0.053	0.052	0.051	0.050
c&i	Proportion of total MSW and C&I imports that are C&I (%) - REGIONAL GROWTH FORECAST	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	62%	62%
	Total imports of C&I into the sub-region from London - REGIONAL GROWTH FORECAST	0.188	0.183	0.179	0.174	0.169	0.165	0.155	0.146	0.137	0.128	0.119	0.114	0.109	0.104	0.099	0.094	0.092	0.089	0.087	0.085	0.083
	Proportion of total MSW and C&I imports that are C&I (%) - SUB-REGIONAL GROWTH FORECAST	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	62%	62%
	Total imports of C&I into the sub-region from London - SUB-REGIONAL GROWTH FORECAST	0.188	0.183	0.179	0.174	0.169	0.165	0.155	0.146	0.137	0.128	0.119	0.114	0.109	0.104	0.099	0.094	0.092	0.089	0.087	0.085	0.083

(1) Intra-regional and inter-regional movements have been excluded for MSW and C&I waste due to self-sufficiency requirements under PPS10, except for inter-regional movements from London into the sub-region. Apportionment from Policy W3 in the Plan – downloa
Note: Only a figure is available for total combined imports of MSW and C&I waste. ERM has assumed that imports of the seperate waste streams of MSW and C&I was split according to tonnage arisings of MSW and C&I in the sub-region.

DATA_03: MANAGED WASTE USED TO GENERATE RESULTS (Million Tonnes)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	0.337	0.346	0.354	0.363	0.372	0.382	0.389	0.397	0.405	0.413	0.421	0.428	0.434	0.441	0.447	0.454	0.461	0.468	0.475	0.482	0.489
msw - imports from london that are sent direct to non-hazardous landfill	0.111	0.108	0.106	0.103	0.100	0.097	0.092	0.086	0.081	0.076	0.070	0.067	0.064	0.061	0.058	0.056	0.054	0.053	0.052	0.051	0.050
c&i	0.571	0.585	0.599	0.614	0.630	0.646	0.658	0.672	0.685	0.699	0.713	0.723	0.734	0.745	0.756	0.768	0.776	0.783	0.791	0.799	0.807
c&i - imports from london that are sent direct to non-hazardous landfill	0.188	0.183	0.179	0.174	0.169	0.165	0.155	0.146	0.137	0.128	0.119	0.114	0.109	0.104	0.099	0.094	0.092	0.089	0.087	0.085	0.083
c&d	0.755	0.755	0.755	0.755	0.755	0.755	0.755	0.755	0.755	0.755	0.755	0.755	0.755	0.755	0.755	0.755	0.755	0.755	0.755	0.755	0.755
hazardous	0.050	0.051	0.052	0.054	0.055	0.056	0.058	0.059	0.060	0.061	0.062	0.063	0.064	0.065	0.066	0.067	0.068	0.068	0.069	0.070	0.071

DATA_04: TARGETS (% or Million Tonnes)		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	(1) landfill (Mt)	0.179	0.173	0.165	0.153	0.139	0.122	0.108	0.095	0.081	0.078	0.074	0.071	0.067	0.064	0.060	0.057	0.057	0.057	0.057	0.057	0.057
	recovered (%)	5	6.4	7.8	9.2	10.6	12	14.4	16.8	19.2	21.6	24	24.8	25.6	26.4	27.2	28	27.2	26.4	25.6	24.8	24
	recycled and composted (%)	30	32.0	34.0	36.0	38.0	40	42.0	44.0	46.0	48.0	50	51.0	52.0	53.0	54.0	55	56.0	57.0	58.0	59.0	60
c&i	recovered (%)	14	14.2	14.4	14.6	14.8	15	16.0	17.0	18.0	19.0	20	20.2	20.4	20.6	20.8	21	20.6	20.2	19.8	19.4	19
	recycled and composted (%)	40	42.0	44.0	46.0	48.0	50	51.0	52.0	53.0	54.0	55	56.0	57.0	58.0	59.0	60	61.0	62.0	63.0	64.0	65
c&d	recovered (%)	36	35.4	34.8	34.2	33.6	33	33.6	34.2	34.8	35.4	36	34.4	32.8	31.2	29.6	28	28.4	28.8	29.2	29.6	30
	recycled (%)	45	46.0	47.0	48.0	49.0	50	50.0	50.0	50.0	50.0	50	52.0	54.0	56.0	58.0	60	60.0	60.0	60.0	60.0	60
hazardous	landfill (%)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	recovered (%)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	recycled (%)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

(1) ERM has assumed that the LATS target allowance remains constant at the 2020 value for the years beyond 2020

DATA_05: WASTE STREAM TONNAGES TO MEET TARGETS (Million Tonnes)		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025

This first section of DATA_03 calculates if there is a LATS shortfall or suplus in each year. If there is a LATS shortfall (ie insufficient allowance to landfill non-diverted waste) then the model assumes that this extra waste is recycled/composted and r

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	Total MSW to be recovered and recycled/composted to meet target	0.118	0.133	0.148	0.164	0.181	0.198	0.220	0.241	0.264	0.288	0.312	0.324	0.337	0.350	0.363	0.377	0.383	0.390	0.397	0.404	0.411
	Total MSW not-diverted by targets	0.219	0.213	0.206	0.199	0.191	0.183	0.170	0.156	0.141	0.126	0.110	0.103	0.097	0.091	0.084	0.077	0.077	0.078	0.078	0.078	0.078
	Percentage of MSW that is biodegradable (% by weight)	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68
	Total BMW not-diverted by targets	0.149	0.145	0.140	0.135	0.130	0.125	0.115	0.106	0.096	0.085	0.074	0.070	0.066	0.062	0.057	0.052	0.053	0.053	0.053	0.053	0.053
	LATS shortfall (how much extra is landfilled above LATS target)	-0.030	-0.029	-0.024	-0.018	-0.009	0.003	0.007	0.011	0.015	0.008	0.000	0.000	-0.001	-0.002	-0.003	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004
	Ratio of 'recovered' to 'recycled/composted' for target (%)	14%	17%	19%	20%	22%	23%	26%	28%	29%	31%	32%	33%	33%	33%	33%	34%	33%	32%	31%	30%	29%
	Extra MSW 'recovery' needed due to LATS shortfall	0.000	0.000	0.000	0.000	0.000	*0.001*	*0.002*	*0.003*	*0.004*	*0.002*	*0.000*	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Extra MSW 'recycling/composting' needed due to LATS shortfall	0.000	0.000	0.000	0.000	0.000	*0.002*	*0.005*	*0.008*	*0.010*	*0.005*	*0.000*	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

The section below in DATA_03 shows the tonnages by waste to meet targets.

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	Recycling and composting target	0.101	0.111	0.120	0.131	0.141	0.155	0.169	0.183	0.197	0.204	0.211	0.218	0.226	0.234	0.241	0.250	0.258	0.267	0.275	0.284	0.293
	Recovery target	0.017	0.022	0.028	0.033	0.039	0.046	0.058	0.070	0.082	0.092	0.101	0.106	0.111	0.116	0.122	0.127	0.125	0.123	0.122	0.119	0.117
	Non-hazardous landfill	0.219	0.213	0.206	0.199	0.191	0.180	0.162	0.144	0.126	0.118	0.109	0.103	0.097	0.091	0.084	0.077	0.077	0.078	0.078	0.078	0.078
	CHECK COUNTER (should be zero)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
c&i	Recycling and composting target	0.228	0.246	0.264	0.283	0.302	0.323	0.336	0.349	0.363	0.377	0.392	0.405	0.419	0.432	0.446	0.461	0.473	0.486	0.498	0.511	0.525
	Recovery target	0.080	0.083	0.086	0.090	0.093	0.097	0.105	0.114	0.123	0.133	0.143	0.146	0.150	0.154	0.157	0.161	0.160	0.158	0.157	0.155	0.153
	Non-hazardous landfill	0.262	0.256	0.249	0.242	0.234	0.226	0.217	0.208	0.199	0.189	0.178	0.172	0.166	0.159	0.153	0.146	0.143	0.139	0.136	0.133	0.129
	CHECK COUNTER (should be zero)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

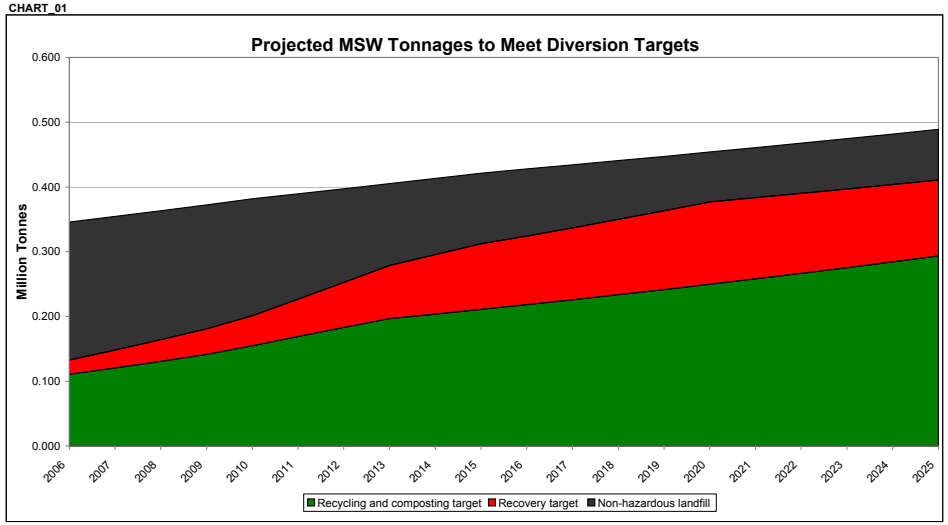
		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
c&d	Recycling target	0.340	0.347	0.355	0.362	0.370	0.377	0.377	0.377	0.377	0.377	0.377	0.393	0.408	0.423	0.438	0.453	0.453	0.453	0.453	0.453	0.453
	Recovery target	0.272	0.267	0.263	0.258	0.254	0.249	0.254	0.258	0.263	0.267	0.272	0.260	0.248	0.236	0.223	0.211	0.214	0.217	0.220	0.223	0.226
	Inert landfill	0.143	0.140	0.137	0.134	0.131	0.128	0.124	0.119	0.115	0.110	0.106	0.103	0.100	0.097	0.094	0.091	0.088	0.085	0.082	0.079	0.075
	CHECK COUNTER (should be zero)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
hazardous	Hazardous waste	0.050	0.051	0.052	0.054	0.055	0.056	0.058	0.059	0.060	0.061	0.062	0.063	0.064	0.065	0.066	0.067	0.068	0.068	0.069	0.070	0.071

DATA_06: TOTAL WASTE TONNAGES TO MEET TARGETS (Million Tonnes)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
MSW and C&I recycling and composting target	0.329	0.356	0.384	0.413	0.444	0.478	0.505	0.532	0.560	0.581	0.603	0.623	0.644	0.666	0.688	0.710	0.731	0.752	0.774	0.796	0.818
C&D recycling target	0.340	0.347	0.355	0.362	0.370	0.377	0.377	0.377	0.377	0.377	0.377	0.393	0.408	0.423	0.438	0.453	0.453	0.453	0.453	0.453	0.453
MSW and C&I recovery target	0.097	0.105	0.114	0.123	0.133	0.143	0.163	0.184	0.205	0.224	0.244	0.252	0.261	0.270	0.279	0.288	0.285	0.282	0.278	0.274	0.271
C&D recovery target	0.272	0.267	0.263	0.258	0.254	0.249	0.254	0.258	0.263	0.267	0.272	0.260	0.248	0.236	0.223	0.211	0.214	0.217	0.220	0.223	0.226
Non-hazardous landfill	0.482	0.469	0.456	0.441	0.426	0.406	0.380	0.353	0.325	0.306	0.287	0.276	0.263	0.250	0.237	0.223	0.220	0.217	0.214	0.211	0.207
Inert landfill	0.143	0.140	0.137	0.134	0.131	0.128	0.124	0.119	0.115	0.110	0.106	0.103	0.100	0.097	0.094	0.091	0.088	0.085	0.082	0.079	0.075
Hazardous waste	0.050	0.051	0.052	0.054	0.055	0.056	0.058	0.059	0.060	0.061	0.062	0.063	0.064	0.065	0.066	0.067	0.068	0.068	0.069	0.070	0.071

Oxfordshire

CHART_01



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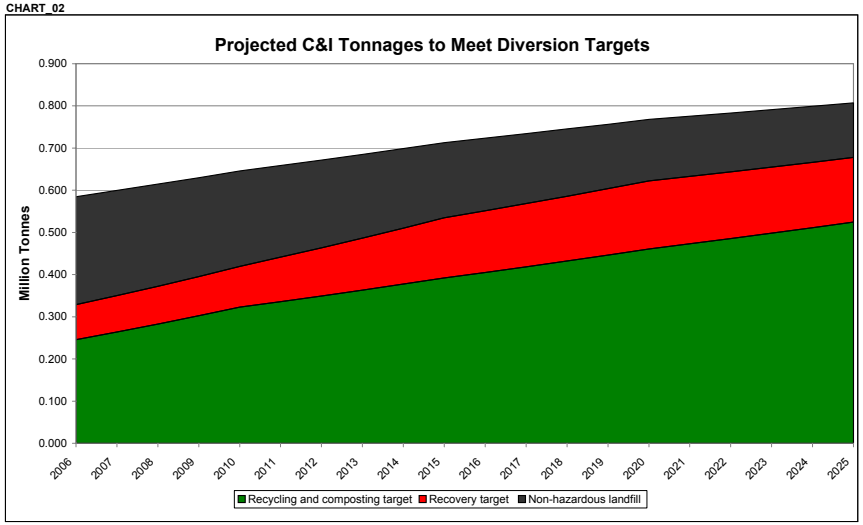

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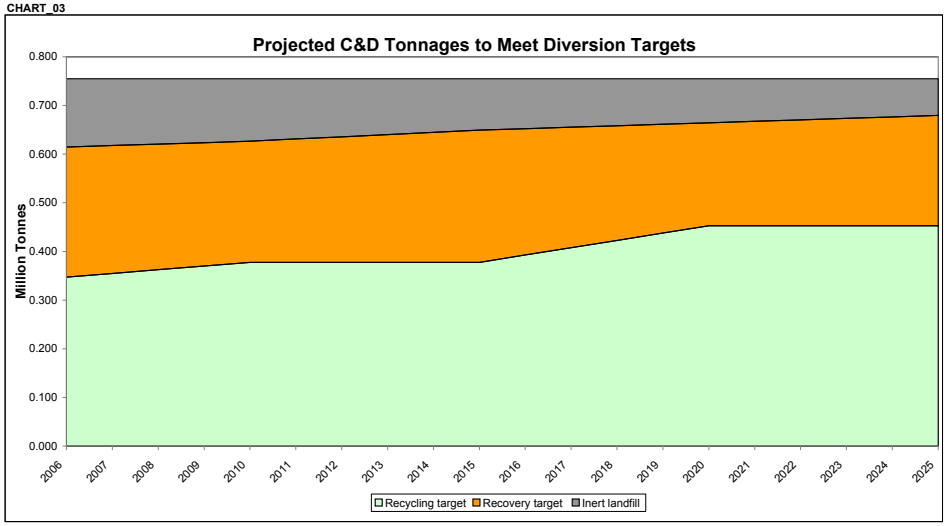

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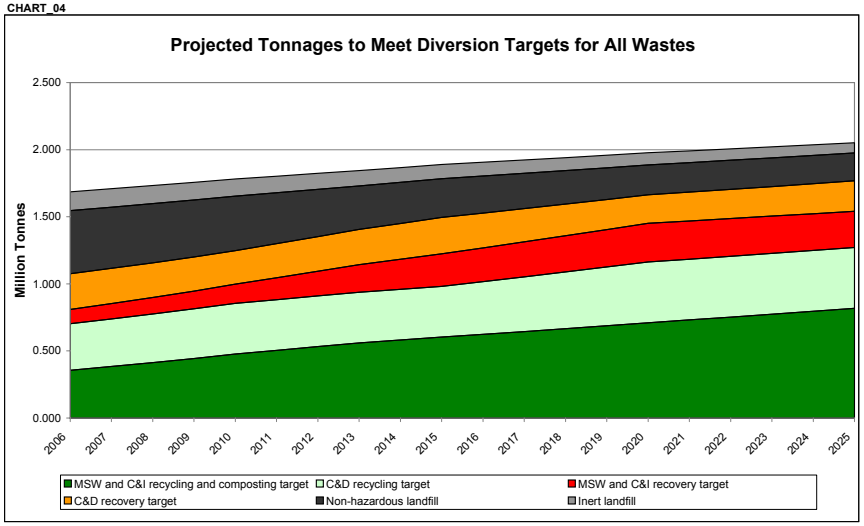
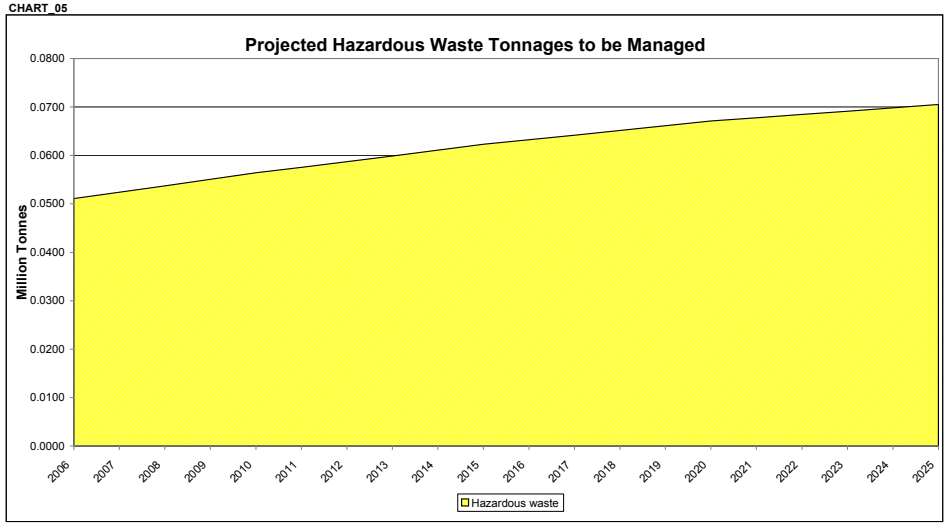


Oxfordshire

CHART_05



DATA_07: EXISTING/PLANNED CAPACITY FOR RECYCLING, RECOVERY AND LANDFILLING AND TOTAL WASTE TONNAGES TO EACH DISPOSAL ROUTE (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
MSW and C&I recovery																					
MSW and C&I incineration (non-specialist)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
MSW and C&I treatment	0.150	0.150	0.150	0.150	0.150	0.150	0.150	0.150	0.150	0.150	0.150	0.150	0.150	0.150	0.150	0.150	0.150	0.150	0.150	0.150	0.150
Total existing/planned MSW and C&I recovery capacity	0.150	0.150	0.150	0.150	0.150	0.150	0.150	0.150	0.150	0.150	0.150	0.150	0.150	0.150	0.150	0.150	0.150	0.150	0.150	0.150	0.150
Total MSW waste required to meet target	0.017	0.022	0.028	0.033	0.039	0.046	0.058	0.070	0.082	0.092	0.101	0.106	0.111	0.116	0.122	0.127	0.125	0.123	0.122	0.119	0.117
Total C&I waste required to meet target	0.080	0.083	0.086	0.090	0.093	0.097	0.105	0.114	0.123	0.133	0.143	0.146	0.150	0.154	0.157	0.161	0.160	0.158	0.157	0.155	0.153
Surplus/deficit capacity	0.053	0.045	0.036	0.027	0.017	0.007	-0.013	-0.034	-0.055	-0.074	-0.094	-0.102	-0.111	-0.120	-0.129	-0.138	-0.135	-0.132	-0.128	-0.124	-0.121
MSW and C&I recycling and composting																					
MSW and C&I recycling	0.713	0.713	0.713	0.713	0.713	0.713	0.713	0.713	0.713	0.713	0.713	0.713	0.713	0.713	0.713	0.713	0.713	0.713	0.713	0.713	0.713
MSW and C&I transfer	0.259	0.259	0.259	0.259	0.259	0.259	0.259	0.259	0.259	0.259	0.259	0.259	0.259	0.259	0.259	0.259	0.259	0.259	0.259	0.259	0.259
Total existing/planned composting capacity	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050
(1) Total existing/planned MSW and C&I recycling and composting capacity (Baseline: 20% of transfer capacity delivers recycling)	0.814	0.814	0.814	0.814	0.814	0.814	0.814	0.814	0.814	0.814	0.814	0.814	0.814	0.814	0.814	0.814	0.814	0.814	0.814	0.814	0.814
(2) Total existing/planned MSW and C&I recycling and composting capacity (Sensitivity: 5% of transfer capacity delivers recycling)	0.776	0.776	0.776	0.776	0.776	0.776	0.776	0.776	0.776	0.776	0.776	0.776	0.776	0.776	0.776	0.776	0.776	0.776	0.776	0.776	0.776
Total MSW waste required to meet recycling and composting target	0.101	0.111	0.120	0.131	0.141	0.155	0.169	0.183	0.197	0.204	0.211	0.218	0.226	0.234	0.241	0.250	0.258	0.267	0.275	0.284	0.293
Total C&I waste required to meet recycling and composting target	0.228	0.246	0.264	0.283	0.302	0.323	0.336	0.349	0.363	0.377	0.392	0.405	0.419	0.432	0.446	0.461	0.473	0.486	0.498	0.511	0.525
Surplus/deficit capacity (Baseline: 20% of transfer capacity delivers recycling)	0.485	0.458	0.430	0.401	0.371	0.337	0.310	0.282	0.255	0.233	0.212	0.191	0.170	0.149	0.127	0.104	0.083	0.062	0.041	0.019	-0.003
Surplus/deficit capacity (Sensitivity: 5% of transfer capacity delivers recycling)	0.446	0.419	0.391	0.362	0.332	0.298	0.271	0.244	0.216	0.195	0.173	0.152	0.131	0.110	0.088	0.065	0.045	0.024	0.002	-0.020	-0.042
C&D recycling																					
Total existing/planned C&D recycling capacity	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107
Total waste required to meet C&D recycling target	0.340	0.347	0.355	0.362	0.370	0.377	0.377	0.377	0.377	0.377	0.377	0.393	0.408	0.423	0.438	0.453	0.453	0.453	0.453	0.453	0.453
Surplus/deficit capacity	-0.232	-0.240	-0.247	-0.255	-0.262	-0.270	-0.270	-0.270	-0.270	-0.270	-0.270	-0.285	-0.300	-0.315	-0.330	-0.345	-0.345	-0.345	-0.345	-0.345	-0.345
C&D recovery																					
(3) REGIONAL total existing/planned C&D recovery capacity	1.877	1.794	1.710	1.627	1.544	1.460	1.439	1.418	1.398	1.377	1.356	1.325	1.293	1.262	1.231	1.199	1.220	1.241	1.262	1.283	1.304
Sub-regional total waste required to meet C&D recovery target	0.272	0.267	0.263	0.258	0.254	0.249	0.254	0.258	0.263	0.267	0.272	0.260	0.248	0.236	0.223	0.211	0.214	0.217	0.220	0.223	0.226
Surplus/deficit capacity	1.605	1.527	1.448	1.369	1.290	1.211	1.186	1.160	1.135	1.109	1.084	1.065	1.046	1.026	1.007	0.988	1.006	1.024	1.041	1.059	1.077
Hazardous waste recycling																					
Total existing/planned hazardous waste recycling capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total hazardous waste to be recycled	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Surplus/deficit capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hazardous waste recovery																					
Total existing/planned hazardous waste recovery capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total hazardous waste to be recovered	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Surplus/deficit capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Non-hazardous landfill																					
Available non-hazardous landfill capacity (excluding residues from MSW and C&I recovery)	11.675	11.110	10.261	9.428	8.612	7.813	7.036	6.296	5.593	4.929	4.294	3.690	3.100	2.527	1.969	1.428	0.903	0.382	-0.136	-0.651	-1.162
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'Incineration (non-specialist)'	11.675	11.096	10.231	9.381	8.546	7.728	6.929	6.164	5.434	4.738	4.070	3.429	2.802	2.189	1.591	1.008	0.440	-0.124	-0.684	-1.240	-1.793
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'MBT'	11.675	11.053	10.142	9.242	8.353	7.476	6.614	5.778	4.966	4.181	3.414	2.665	1.927	1.200	0.483	-0.223	-0.918	-1.607	-2.291	-2.970	-3.643
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'RDF'	11.675	11.099	10.237	9.390	8.559	7.745	6.950	6.190	5.466	4.776	4.115	3.481	2.862	2.257	1.667	1.092	0.533	-0.023	-0.574	-1.122	-1.667
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'treatment'	11.675	11.067	10.170	9.286	8.414	7.556	6.714	5.900	5.115	4.358	3.622	2.908	2.206	1.515	0.836	0.169	-0.485	-1.135	-1.780	-2.420	-3.054
Total MSW and C&I waste sent direct to non-hazardous landfill	0.482	0.469	0.456	0.441	0.426	0.406	0.380	0.353	0.325	0.306	0.287	0.276	0.263	0.250	0.237	0.223	0.220	0.217	0.214	0.211	0.207
Inert landfill																					
Available inert landfill capacity	4.276	4.132	3.992	3.854	3.720	3.589	3.460	3.336	3.217	3.102	2.992	2.886	2.784	2.684	2.587	2.494	2.403	2.316	2.231	2.150	2.071
Available inert landfill capacity assuming all MSW and C&I recovery by 'Incineration (non-specialist)'	4.276	4.118	3.961	3.807	3.654	3.503	3.353	3.205	3.058	2.912	2.768	2.626	2.486	2.347	2.210	2.074	1.940	1.810	1.683	1.560	1.440
Total C&D waste sent direct to inert landfill (excludes residues from MSW and C&I recovery)	0.143	0.140	0.137	0.134	0.131	0.128	0.124	0.119	0.115	0.110	0.106	0.103	0.100	0.097	0.094	0.091	0.088	0.085	0.082	0.079	0.075
Hazardous landfill																					
Available hazardous landfill capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total hazardous waste sent direct to hazardous landfill	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Other																					
Metal/ELV facility	0.227	0.227	0.227	0.227	0.227	0.227	0.227	0.227	0.227	0.227	0.227	0.227	0.227	0.227	0.227	0.227	0.227	0.227	0.227	0.227	0.227
Ignored	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Closed	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

(1) ERM has assumed that 20% of the total "transfer' capacity will deliver recycling capacity
(2) ERM has assumed that 5% of the total "transfer' capacity will deliver recycling capacity
(3) Data for C&D recovery for landfill cover for the SE Region were sourced from the original MEL model, which sourced the data from Symonds (2001)
Landfill capacity data for 2005 were adapted from *Table R* in the ERM data template for each sub-region

Oxfordshire

DATA_08: RESIDUE RATES (%)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Recovery residues (% by weight)																					
MSW and C&I incineration (non-specialist) - bottom ash	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
MSW and C&I incineration (non-specialist) - fly ash	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
MSW and C&I to MBT	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59
MSW and C&I to RDF	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
MSW and C&I treatment - non-hazardous	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45
MSW and C&I treatment - hazardous	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Hazardous waste recovery	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Recycling residues (% by weight)																					
MSW and C&I recycling	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
MSW and C&I transfer	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
MSW and C&I composting	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
C&D recycling	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Hazardous waste recycling	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Other																					
Metal/ELV facility	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Ignored	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Closed	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Note: All residues are calculated on the amount of waste arising not on the maount of capacity available. This is complaince with the self-sufficiency requirements of PPS10.

DATA_09: TOTAL RESIDUE (Million Tonnes)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Recovery residues (of waste managed):																					
MSW and C&I incineration (non-specialist) - bottom ash	0.029	0.032	0.034	0.037	0.040	0.043	0.049	0.055	0.062	0.067	0.073	0.076	0.078	0.081	0.084	0.087	0.086	0.085	0.083	0.082	0.081
MSW and C&I incineration (non-specialist) - fly ash	0.003	0.003	0.003	0.004	0.004	0.004	0.005	0.006	0.006	0.007	0.007	0.008	0.008	0.008	0.008	0.009	0.009	0.008	0.008	0.008	0.008
MSW and C&I to MBT	0.057	0.062	0.067	0.073	0.078	0.085	0.096	0.109	0.121	0.132	0.144	0.149	0.154	0.159	0.165	0.170	0.168	0.166	0.164	0.162	0.160
MSW and C&I to RDF	0.012	0.013	0.014	0.015	0.016	0.017	0.020	0.022	0.025	0.027	0.029	0.030	0.031	0.032	0.033	0.035	0.034	0.034	0.033	0.033	0.032
MSW and C&I treatment - non-hazardous	0.044	0.047	0.051	0.055	0.060	0.064	0.073	0.083	0.092	0.101	0.110	0.113	0.117	0.121	0.126	0.130	0.128	0.127	0.125	0.124	0.122
MSW and C&I treatment - hazardous	0.005	0.005	0.006	0.006	0.007	0.007	0.008	0.009	0.010	0.011	0.012	0.013	0.013	0.013	0.014	0.014	0.014	0.014	0.014	0.014	0.014
Hazardous waste recovery	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Recycling residues (of waste managed):																					
MSW and C&I recycling and composting	0.049	0.053	0.058	0.062	0.067	0.072	0.076	0.080	0.084	0.087	0.090	0.093	0.097	0.100	0.103	0.107	0.110	0.113	0.116	0.119	0.123
C&D recycling	0.034	0.035	0.035	0.036	0.037	0.038	0.038	0.038	0.038	0.038	0.038	0.039	0.041	0.042	0.044	0.045	0.045	0.045	0.045	0.045	0.045
Hazardous waste recycling	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Note: All residues are calculated on the amount of waste arising not on the maount of capacity available. This is complaince with the self-sufficiency requirements of PPS10.

DATA_10: TOTAL MSW AND C&I RESIDUE FROM RECYCLING SENT TO NON-HAZARDOUS LANDFILL (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Total MSW and C&I recycling and composting residue sent to non-hazardous landfill	0.083	0.088	0.093	0.098	0.104	0.109	0.113	0.118	0.122	0.125	0.128	0.133	0.137	0.142	0.147	0.152	0.155	0.158	0.161	0.165	0.168

DATA_11: TOTAL MSW AND C&I RESIDUE FROM RECOVERY SENT TO NON-HAZARDOUS LANDFILL AND C&D RECYCLING (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
SCENARIO 1 - Assumes all recovery is by 'Non-specialist incineration' (based on total recovery capacity)																					
(1) Total MSW and C&I residue sent to non-hazardous landfill assuming all MSW and C&I recovery by 'Non-specialist incineration'	0.015	0.016	0.017	0.018	0.020	0.021	0.024	0.028	0.031	0.034	0.037	0.038	0.039	0.040	0.042	0.043	0.043	0.042	0.042	0.041	0.041
(1) Total MSW and C&I residue sent to inert landfill assuming all MSW and C&I recovery by 'Non-specialist incineration'	0.015	0.016	0.017	0.018	0.020	0.021	0.024	0.028	0.031	0.034	0.037	0.038	0.039	0.040	0.042	0.043	0.043	0.042	0.042	0.041	0.041
SCENARIO 2 - Assumes all recovery is by 'MBT' (based on total recovery capacity)																					
Total MSW and C&I residue sent to non-hazardous landfill	0.057	0.062	0.067	0.073	0.078	0.085	0.096	0.109	0.121	0.132	0.144	0.149	0.154	0.159	0.165	0.170	0.168	0.166	0.164	0.162	0.160
SCENARIO 3 - Assumes all recovery is by 'RDF' (based on total recovery capacity)																					
Total MSW and C&I residue sent to non-hazardous landfill	0.012	0.013	0.014	0.015	0.016	0.017	0.020	0.022	0.025	0.027	0.029	0.030	0.031	0.032	0.033	0.035	0.034	0.034	0.033	0.033	0.032
SCENARIO 4 - Assumes all recovery is by 'treatment' (based on total recovery capacity)																					
(2) Total MSW and C&I residue sent to non-hazardous landfill	0.044	0.047	0.051	0.055	0.060	0.064	0.073	0.083	0.092	0.101	0.110	0.113	0.117	0.121	0.126	0.130	0.128	0.127	0.125	0.124	0.122

(1) It was assumed that 50% of residue from 'non-specialist incineration' is sent to non-hazardous landfill and 50% is sent to inert landfill. In the original model assumptions developed MEL 50% was assumed to go to C&D recycling, rather than to inert landfi

DATA_12: TONNAGES OF C&D REUSED ON NON-HAZARDOUS AND INERT LANDFILL (Million Tonnes)

(1) C&D reused on landfill sites	39 %
(1) C&D reused on exempt sites	61 %
(1) C&D reused on landfill sites sent to 'non-haz landfill'	30 %
(1) C&D reused on landfill sites sent to 'inert landfill'	70 %

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
c&d	Total C&D reused on non-hazardous landfill	0.032	0.031	0.031	0.030	0.030	0.029	0.030	0.030	0.031	0.031	0.032	0.030	0.029	0.027	0.026	0.025	0.025	0.025	0.026	0.026	0.026
	Total reused C&D on inert landfill	0.074	0.073	0.071	0.070	0.069	0.068	0.069	0.070	0.071	0.073	0.074	0.071	0.067	0.064	0.061	0.057	0.058	0.059	0.060	0.061	0.061

(1) C&D reuse rates based on original model assumptions developed MEL
NOTE: C&D reuse on inert and non-hazardous landfill is not included within the charts because it has been assumed that data supplied by each sub-region has accounted for C&D reuse as an engineering material.

DATA_13: TOTAL MSW AND C&I RESIDUE FROM RECYCLING SENT TO HAZARDOUS LANDFILL (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Total MSW and C&I recycling and composting residue sent to hazardous landfill	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

DATA_14: TOTAL MSW AND C&I RESIDUE FROM RECOVERY SENT TO HAZARDOUS LANDFILL (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
SCENARIO 1 - Assumes all recovery is by 'Non-specialist incineration' (based on total recovery capacity)																					
Total MSW and C&I residue sent to hazardous landfill assuming all MSW and C&I recovery by 'Non-specialist incineration'	0.003	0.003	0.003	0.004	0.004	0.004	0.005	0.006	0.006	0.007	0.007	0.008	0.008	0.008	0.008	0.009	0.009	0.008	0.008	0.008	0.008
SCENARIO 2 - Assumes all recovery is by 'MBT' (based on total recovery capacity)																					
Total MSW and C&I residue sent to hazardous landfill	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SCENARIO 3 - Assumes all recovery is by 'RDF' (based on total recovery capacity)																					
Total MSW and C&I residue sent to hazardous landfill	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SCENARIO 4 - Assumes all recovery is by 'treatment' (based on total recovery capacity)																					
Total MSW and C&I residue sent to hazardous landfill	0.005	0.005	0.006	0.006	0.007	0.007	0.008	0.009	0.010	0.011	0.012	0.013	0.013	0.013	0.014	0.014	0.014	0.014	0.014	0.014	0.014

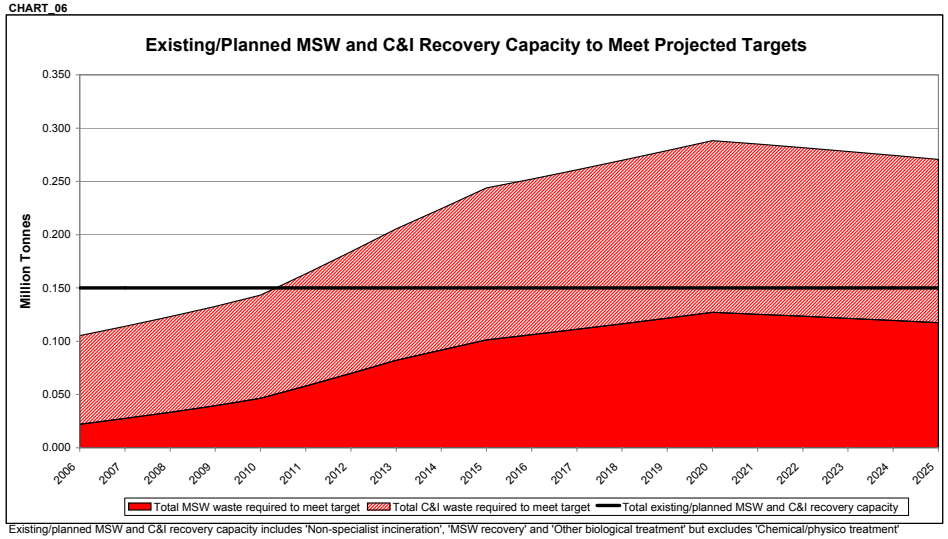
NOTE: This element of the model is redundant. There is currently no hazardous waste capacity figures to generate a chart of managed waste versus available capacity.

DATA_15: TOTAL HAZARDOUS WASTE RESIDUE FROM RECOVERY AND RECYCLING SENT TO HAZARDOUS LANDFILL (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Total hazardous waste recycling and recovery residue sent to hazardous landfill	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

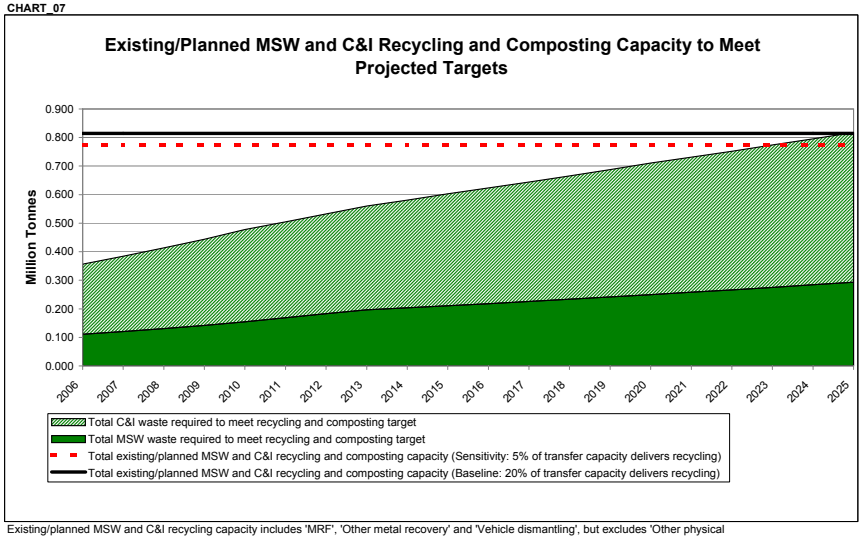
Oxfordshire

CHART_06



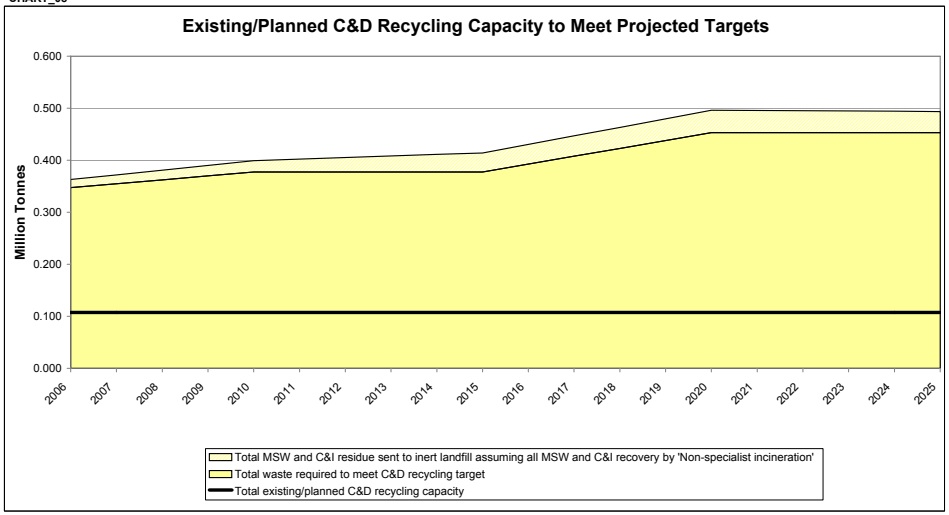
Existing/planned MSW and C&I recovery capacity includes 'Non-specialist incineration', 'MSW recovery' and 'Other biological treatment' but excludes 'Chemical/physico treatment'
NOTE: This capacity does not represent the quantity of material that is recovered.
NOTE: The original MEL model assumes that 'MSW recovery' capacity is incineration - but this is not made explicit.

CHART_07



Existing/planned MSW and C&I recycling capacity includes 'MRF', 'Other metal recovery' and 'Vehicle dismantling', but excludes 'Other physical treatment' (because this category includes CA sites)
NOTE: This capacity does not represent the quantity of material that is recycled and composted.

CHART_08



Oxfordshire

CHART_09

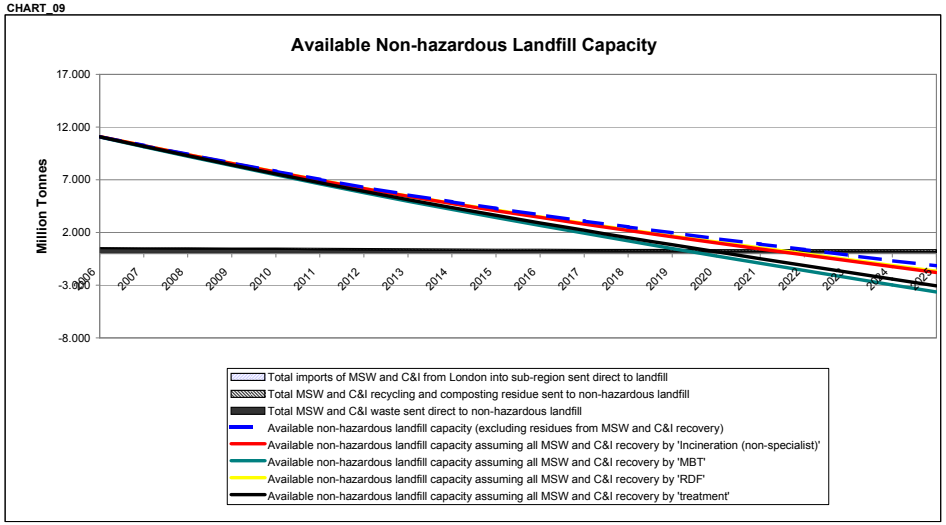
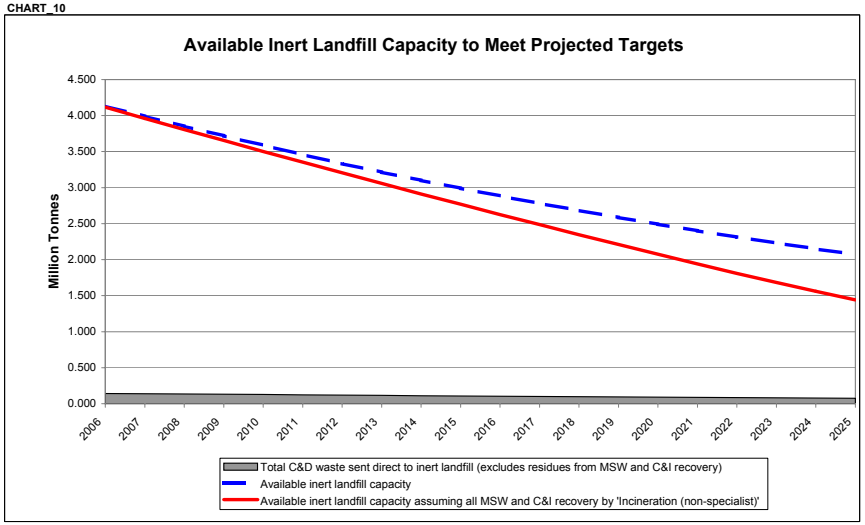


CHART_10



Surrey

SUMMARY DATA AND RESULTS FOR SURREY

MANAGED WASTE USED TO GENERATE RESULTS (Million Tonnes)		2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw		0.659	0.676	0.693	0.710	0.728	0.742	0.757	0.772	0.788	0.804	0.816	0.828	0.840	0.853	0.866	0.879	0.892	0.905	0.919	0.933
msw - imports from london that are sent direct to non-hazardous landfill		0.063	0.062	0.060	0.059	0.057	0.054	0.051	0.047	0.044	0.041	0.039	0.038	0.036	0.034	0.033	0.032	0.031	0.031	0.030	0.029
c&i		0.838	0.859	0.880	0.902	0.925	0.943	0.962	0.981	1.001	1.021	1.036	1.052	1.067	1.083	1.100	1.111	1.122	1.133	1.144	1.156
c&i - imports from london that are sent direct to non-hazardous landfill		0.081	0.079	0.077	0.074	0.072	0.068	0.064	0.060	0.056	0.052	0.050	0.048	0.046	0.044	0.041	0.040	0.039	0.038	0.037	0.036
c&d		1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881
hazardous		0.023	0.024	0.024	0.025	0.026	0.026	0.027	0.027	0.028	0.028	0.029	0.029	0.030	0.030	0.030	0.031	0.031	0.031	0.032	0.032

WASTE STREAM TONNAGES TO MEET TARGETS (Million Tonnes)		2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	LATS shortfall (how much extra is landfilled above LATS target)	-0.039	-0.034	-0.024	-0.010	*0.008*	*0.016*	*0.024*	*0.030*	*0.017*	*0.003*	*0.001*	0.000	-0.002	-0.004	-0.007	-0.006	-0.006	-0.006	-0.006	-0.005
	Recycling and composting target	0.211	0.230	0.249	0.270	0.298	0.324	0.350	0.377	0.390	0.403	0.417	0.430	0.445	0.461	0.476	0.492	0.508	0.525	0.542	0.560
	Recovery target	0.042	0.053	0.064	0.075	0.089	0.111	0.134	0.157	0.175	0.194	0.203	0.212	0.222	0.232	0.242	0.239	0.235	0.232	0.228	0.224
	Non-hazardous landfill	0.406	0.393	0.380	0.365	0.341	0.307	0.273	0.239	0.223	0.206	0.196	0.185	0.173	0.160	0.147	0.148	0.148	0.148	0.149	0.149
c&i	Recycling and composting target	0.352	0.378	0.405	0.433	0.462	0.481	0.500	0.520	0.540	0.561	0.580	0.599	0.619	0.639	0.660	0.677	0.695	0.714	0.732	0.751
	Recovery target	0.119	0.124	0.128	0.133	0.139	0.151	0.164	0.177	0.190	0.204	0.209	0.215	0.220	0.225	0.231	0.229	0.227	0.224	0.222	0.220
	Non-hazardous landfill	0.367	0.357	0.347	0.336	0.324	0.311	0.298	0.285	0.270	0.255	0.247	0.238	0.228	0.219	0.209	0.204	0.200	0.195	0.190	0.185
c&d	Recycling target	0.865	0.884	0.903	0.922	0.941	0.941	0.941	0.941	0.941	0.941	0.978	1.016	1.053	1.091	1.129	1.129	1.129	1.129	1.129	1.129
	Recovery target	0.666	0.655	0.643	0.632	0.621	0.632	0.643	0.655	0.666	0.677	0.647	0.617	0.587	0.557	0.527	0.534	0.542	0.549	0.557	0.564
	Inert landfill	0.350	0.342	0.335	0.327	0.320	0.308	0.297	0.286	0.275	0.263	0.256	0.248	0.241	0.233	0.226	0.218	0.211	0.203	0.196	0.188
hazardous	Hazardous waste	0.023	0.024	0.024	0.025	0.026	0.026	0.027	0.027	0.028	0.028	0.029	0.029	0.030	0.030	0.030	0.031	0.031	0.031	0.032	0.032

Note: If there is a LATS shortfall, denoted by a positive number, (ie insufficient allowance to landfill non-diverted waste) then the model assumes that this extra waste is recycled/composted and recovered at the same ratio as the regional targets for recycling/composting and recovery for that year.

EXISTING/PLANNED CAPACITY FOR RECYCLING, RECOVERY AND LANDFILLING AND TOTAL WASTE TONNAGES TO EACH DISPOSAL ROUTE (Million Tonnes)		2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
MSW and C&I recovery																					
	Total existing/planned MSW and C&I recovery capacity	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141
	Surplus/deficit capacity	-0.020	-0.035	-0.051	-0.067	-0.087	-0.121	-0.156	-0.192	-0.224	-0.256	-0.271	-0.285	-0.300	-0.316	-0.332	-0.326	-0.321	-0.315	-0.308	-0.302
MSW and C&I recycling and composting																					
	Total existing/planned MSW and C&I recycling and composting capacity (Baseline: 20% of transfer capacity delivers recycling)	1.617	1.617	1.617	1.617	1.617	1.617	1.617	1.617	1.617	1.617	1.617	1.617	1.617	1.617	1.617	1.617	1.617	1.617	1.617	1.617
	Total existing/planned MSW and C&I recycling and composting capacity (Sensitivity: 5% of transfer capacity delivers recycling)	1.300	1.300	1.300	1.300	1.300	1.300	1.300	1.300	1.300	1.300	1.300	1.300	1.300	1.300	1.300	1.300	1.300	1.300	1.300	1.300
	Surplus/deficit capacity (Baseline: 20% of transfer capacity delivers recycling)	1.054	1.010	0.963	0.914	0.857	0.812	0.767	0.721	0.687	0.652	0.620	0.587	0.553	0.517	0.481	0.448	0.413	0.378	0.343	0.306
	Surplus/deficit capacity (Sensitivity: 5% of transfer capacity delivers recycling)	0.737	0.692	0.645	0.597	0.540	0.495	0.449	0.403	0.370	0.335	0.303	0.270	0.235	0.200	0.164	0.130	0.096	0.061	0.025	-0.011
C&D recycling																					
	Total existing/planned C&D recycling capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Surplus/deficit capacity	-0.865	-0.884	-0.903	-0.922	-0.941	-0.941	-0.941	-0.941	-0.941	-0.941	-0.978	-1.016	-1.053	-1.091	-1.129	-1.129	-1.129	-1.129	-1.129	-1.129
C&D recovery																					
	REGIONAL total existing/planned C&D recovery capacity	1.794	1.710	1.627	1.544	1.460	1.439	1.418	1.398	1.377	1.356	1.325	1.293	1.262	1.231	1.199	1.220	1.241	1.262	1.283	1.304
	Surplus/deficit capacity	1.128	1.056	0.984	0.912	0.839	0.807	0.775	0.743	0.711	0.679	0.677	0.676	0.675	0.674	0.673	0.686	0.699	0.713	0.726	0.739
Hazardous waste recycling																					
	Total existing/planned hazardous waste recycling capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Surplus/deficit capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hazardous waste recovery																					
	Total existing/planned hazardous waste recovery capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Surplus/deficit capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Non-hazardous landfill																					
	Available non-hazardous landfill capacity (excluding residues from MSW and C&I recovery)	8.515	7.427	6.356	5.305	4.274	3.272	2.317	1.409	0.549	-0.278	-1.071	-1.851	-2.615	-3.363	-4.094	-4.808	-5.520	-6.232	-6.943	-7.653
	Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'Incineration (non-specialist)'	8.515	7.403	6.306	5.225	4.163	3.127	2.132	1.180	0.270	-0.611	-1.465	-2.306	-3.134	-3.949	-4.748	-5.533	-6.315	-7.096	-7.876	-8.653
	Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'MBT'	8.515	7.332	6.157	4.992	3.838	2.702	1.592	0.509	-0.548	-1.590	-2.619	-3.641	-4.657	-5.666	-6.667	-7.659	-8.648	-9.632	-10.612	-11.588
	Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'RDF'	8.515	7.408	6.316	5.241	4.185	3.156	2.169	1.226	0.326	-0.545	-1.386	-2.215	-3.031	-3.832	-4.618	-5.388	-6.156	-6.923	-7.689	-8.453
	Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'treatment'	8.515	7.354	6.205	5.067	3.942	2.837	1.764	0.722	-0.287	-1.279	-2.251	-3.216	-4.173	-5.120	-6.057	-6.983	-7.906	-8.825	-9.741	-10.654
Inert landfill																					
	Available inert landfill capacity	11.532	11.182	10.840	10.505	10.178	9.858	9.549	9.252	8.966	8.692	8.428	8.172	7.924	7.683	7.450	7.224	7.006	6.796	6.592	6.397
	Available inert landfill capacity assuming all MSW and C&I recovery by 'Incineration (non-specialist)'	11.532	11.158	10.789	10.425	10.067	9.713	9.365	9.023	8.687	8.358	8.035	7.717	7.405	7.098	6.796	6.499	6.211	5.931	5.659	5.396
Hazardous landfill																					
	Available hazardous landfill capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Note: The model does not contain data for the management of hazardous waste.																				

DATA_01: ARISINGS AND GROWTH RATES OF MSW, C&I AND HAZARDOUS WASTE (Million Tonnes)		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	Arisings of MSW in baseline year																					
	(1) Forecast regional level growth rate of MSW - per year (%)	3.0%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%
	(1) Forecast regional level growth rate of MSW - cumulative (%)	103%	106%	108%	111%	114%	117%	119%	121%	124%	126%	129%	131%	133%	135%	137%	139%	141%	143%	145%	147%	149%
	Total arisings of MSW using regional growth forecasts	0.643	0.659	0.676	0.693	0.710	0.728	0.742	0.757	0.772	0.788	0.804	0.816	0.828	0.840	0.853	0.866	0.879	0.892	0.905	0.919	0.933
	(1) Forecast sub-regional growth rate of MSW - per year (%)	2.0%	2.0%	2.0%	2.0%	2.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	0.5%	0.5%	0.5%	0.5%	0.5%	0.5%
	(1) Forecast sub-regional level growth rate of MSW - cumulative (%)	102%	104%	106%	108%	110%	112%	113%	114%	115%	116%	117%	118%	120%	121%	122%	123%	123%	124%	124%	125%	126%
	Total arisings of MSW using sub-regional growth forecasts	0.637	0.650	0.663	0.676	0.690	0.696	0.703	0.710	0.718	0.725	0.732	0.739	0.747	0.754	0.762	0.765	0.769	0.773	0.777	0.781	0.785
c&i	Arisings of C&I in baseline year																					
	(1) Forecast regional level growth rate of C&I - per year (%)	3.3%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.0%	1.0%	1.0%	1.0%	1.0%
	(1) Forecast regional level growth rate of C&I - cumulative (%)	110%	113%	116%	119%	122%	125%	127%	130%	132%	135%	138%	140%	142%	144%	146%	148%	150%	151%	153%	154%	156%
	Total arisings of C&I using regional growth forecasts	0.817	0.838	0.859	0.880	0.902	0.925	0.943	0.962	0.981	1.001	1.021	1.036	1.052	1.067	1.083	1.100	1.111	1.122	1.133	1.144	1.156
	(1) Forecast sub-regional level growth rate of C&I - per year (%)	1.7%	1.7%	1.7%	1.7%	1.7%	1.6%	1.6%	1.6%	1.6%	1.6%	0.8%	0.8%	0.8%	0.8%	0.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	(1) Forecast sub-regional level growth rate of C&I - cumulative (%)	105%	107%	109%	111%	113%	115%	117%	118%	120%	122%	123%	124%	125%	126%	127%	127%	127%	127%	127%	127%	127%
	Total arisings of C&I using sub-regional growth forecasts	0.782	0.796	0.809	0.823	0.838	0.851	0.865	0.878	0.892	0.906	0.914	0.921	0.928	0.936	0.943	0.943	0.943	0.943	0.943	0.943	0.943
hazardous	Arisings of hazardous waste in baseline year																					
	(2) Forecast regional level growth rate of hazardous waste - per year (%)	3.3%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.0%	1.0%	1.0%	1.0%	1.0%
	Forecast regional level growth rate of hazardous waste - cumulative (%)	107%	109%	112%	115%	118%	121%	123%	126%	128%	131%	133%	135%	137%	139%	141%	144%	145%	146%	148%	149%	151%
	Total arisings of hazardous waste	0.023	0.023	0.024	0.024	0.025	0.026	0.026	0.027	0.027	0.028	0.028	0.029	0.029	0.030	0.030	0.030	0.031	0.031	0.031	0.032	0.032
	(2) Forecast sub-regional level growth rate of hazardous waste - per year (%)	1.7%	1.7%	1.7%	1.7%	1.7%	1.6%	1.6%	1.6%	1.6%	1.6%	0.8%	0.8%	0.8%	0.8%	0.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Forecast sub regional level growth rate of hazardous waste - cumulative (%)	104%	105%	107%	109%	111%	113%	114%	116%	118%	120%	121%	122%	123%	124%	125%	125%	125%	125%	125%	125%	125%
	Total arisings of hazardous waste	0.022	0.022	0.023	0.023	0.024	0.024	0.024	0.025	0.025	0.025	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026
c&d	Total managed C&D in baseline year																					
	(3) Forecast regional-level growth rate of managed C&D - per year (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Forecast regional-level growth rate of managed C&D - cumulative (%)	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
	(3) Total managed of C&D for the sub-region	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881

(1) Figures from SEERA updated waste capacity model by ERM in 2005.
(2) Baseline year of hazardous waste arisings is 2003 from EA Hazardous Waste Interrogator. www.environment-agency.gov.uk/apps/wastesurvey2/. ERM has assumed that growth in hazardous waste is equal to C&I waste.
(3) These data represent managed C&D waste in the sub-region, including all intra-regional and inter-regional movements. Growth is assumed to be zero from the orginal MEL study and updated modeted by ERM in 2005.
NOTE: C&D waste is not included in arisings because this was taken from survey data by Symonds 2001 which gave values for managed C&D waste.

Surrey

Figure in blue represent data supplied by each sub-region for the new '2006 SEERA Capacity and Need Model'
Figures in orange represent managed waste that are used by the model to calculate results. These can be adjusted for different scenarios.

DATA_02: INTER REGIONAL MOVEMENTS OF MSW and C&I (Million Tonnes)		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw and c&i	Regional level imports of MSW and C&I waste into the SE region from London	1.76	1.716	1.672	1.628	1.584	1.54	1.454	1.368	1.282	1.196	1.11	1.064	1.018	0.972	0.926	0.88	0.86	0.84	0.82	0.8	0.78
	Proportion of regional MSW and C&I imports that go to the sub-region (%)	8.4%	8.4%	8.4%	8.4%	8.4%	8.4%	8.4%	8.4%	8.4%	8.4%	8.4%	8.4%	8.4%	8.4%	8.4%	8.4%	8.4%	8.4%	8.4%	8.4%	8.4%
	(1) Total imports of MSW and C&I from London into sub-region sent direct to landfill	0.148	0.144	0.140	0.137	0.133	0.129	0.122	0.115	0.108	0.100	0.093	0.089	0.086	0.082	0.078	0.074	0.072	0.071	0.069	0.067	0.066
msw	Proportion of total MSW and C&I imports that are MSW (%) - REGIONAL GROWTH FORECAST	44%	44%	44%	44%	44%	44%	44%	44%	44%	44%	44%	44%	44%	44%	44%	44%	44%	44%	44%	45%	45%
	Total imports of MSW into the sub-region from London - REGIONAL GROWTH FORECAST	0.065	0.063	0.062	0.060	0.059	0.057	0.054	0.051	0.047	0.044	0.041	0.039	0.038	0.036	0.034	0.033	0.032	0.031	0.031	0.030	0.029
	Proportion of total MSW and C&I imports that are MSW (%) - SUB-REGIONAL GROWTH FORECAST	45%	45%	45%	45%	45%	45%	45%	45%	45%	44%	44%	45%	45%	45%	45%	45%	45%	45%	45%	45%	45%
	Total imports of MSW into the sub-region from London - SUB-REGIONAL GROWTH FORECAST	0.066	0.065	0.063	0.062	0.060	0.058	0.055	0.051	0.048	0.045	0.041	0.040	0.038	0.036	0.035	0.033	0.032	0.032	0.031	0.030	0.030
c&i	Proportion of total MSW and C&I imports that are C&I (%) - REGIONAL GROWTH FORECAST	56%	56%	56%	56%	56%	56%	56%	56%	56%	56%	56%	56%	56%	56%	56%	56%	56%	56%	56%	55%	55%
	Total imports of C&I into the sub-region from London - REGIONAL GROWTH FORECAST	0.083	0.081	0.079	0.077	0.074	0.072	0.068	0.064	0.060	0.056	0.052	0.050	0.048	0.046	0.044	0.041	0.040	0.039	0.038	0.037	0.036
	Proportion of total MSW and C&I imports that are C&I (%) - SUB-REGIONAL GROWTH FORECAST	55%	55%	55%	55%	55%	55%	55%	55%	55%	56%	56%	55%	55%	55%	55%	55%	55%	55%	55%	55%	55%
	Total imports of C&I into the sub-region from London - SUB-REGIONAL GROWTH FORECAST	0.081	0.079	0.077	0.075	0.073	0.071	0.067	0.064	0.060	0.056	0.052	0.050	0.047	0.045	0.043	0.041	0.040	0.039	0.038	0.037	0.036

(1) Intra-regional and inter-regional movements have been excluded for MSW and C&I waste due to self-sufficiency requirements under PPS10, except for inter-regional movements from London into the sub-region. Apportionment from Policy W3 in the Plan – downloa
Note: Only a figure is available for total combined imports of MSW and C&I waste. ERM has assumed that imports of the seperate waste streams of MSW and C&I was split according to tonnage arisings of MSW and C&I in the sub-region.

DATA_03: MANAGED WASTE USED TO GENERATE RESULTS (Million Tonnes)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	0.643	0.659	0.676	0.693	0.710	0.728	0.742	0.757	0.772	0.788	0.804	0.816	0.828	0.840	0.853	0.866	0.879	0.892	0.905	0.919	0.933
msw - imports from london that are sent direct to non-hazardous landfill	0.065	0.063	0.062	0.060	0.059	0.057	0.054	0.051	0.047	0.044	0.041	0.039	0.038	0.036	0.034	0.033	0.032	0.031	0.031	0.030	0.029
c&i	0.817	0.838	0.859	0.880	0.902	0.925	0.943	0.962	0.981	1.001	1.021	1.036	1.052	1.067	1.083	1.100	1.111	1.122	1.133	1.144	1.156
c&i - imports from london that are sent direct to non-hazardous landfill	0.083	0.081	0.079	0.077	0.074	0.072	0.068	0.064	0.060	0.056	0.052	0.050	0.048	0.046	0.044	0.041	0.040	0.039	0.038	0.037	0.036
c&d	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881
hazardous	0.023	0.023	0.024	0.024	0.025	0.026	0.026	0.027	0.027	0.028	0.028	0.029	0.029	0.030	0.030	0.030	0.031	0.031	0.031	0.032	0.032

DATA_04: TARGETS (% or Million Tonnes)		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	(1) landfill (Mt)	0.325	0.316	0.301	0.282	0.258	0.229	0.204	0.178	0.153	0.146	0.140	0.133	0.126	0.120	0.113	0.107	0.107	0.107	0.107	0.107	0.107
	recovered (%)	5	6.4	7.8	9.2	10.6	12	14.4	16.8	19.2	21.6	24	24.8	25.6	26.4	27.2	28	27.2	26.4	25.6	24.8	24
	recycled and composted (%)	30	32.0	34.0	36.0	38.0	40	42.0	44.0	46.0	48.0	50	51.0	52.0	53.0	54.0	55	56.0	57.0	58.0	59.0	60
c&i	recovered (%)	14	14.2	14.4	14.6	14.8	15	16.0	17.0	18.0	19.0	20	20.2	20.4	20.6	20.8	21	20.6	20.2	19.8	19.4	19
	recycled and composted (%)	40	42.0	44.0	46.0	48.0	50	51.0	52.0	53.0	54.0	55	56.0	57.0	58.0	59.0	60	61.0	62.0	63.0	64.0	65
c&d	recovered (%)	36	35.4	34.8	34.2	33.6	33	33.6	34.2	34.8	35.4	36	34.4	32.8	31.2	29.6	28	28.4	28.8	29.2	29.6	30
	recycled (%)	45	46.0	47.0	48.0	49.0	50	50.0	50.0	50.0	50.0	50	52.0	54.0	56.0	58.0	60	60.0	60.0	60.0	60.0	60
hazardous	landfill (%)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	recovered (%)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	recycled (%)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

(1) ERM has assumed that the LATS target allowance remains constant at the 2020 value for the years beyond 2020

DATA_05: WASTE STREAM TONNAGES TO MEET TARGETS (Million Tonnes)

This first section of DATA_03 calculates if there is a LATS shortfall or suplus in each year. If there is a LATS shortfall (ie insufficient allowance to landfill non-diverted waste) then the model assumes that this extra waste is recycled/composted and r

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	Total MSW to be recovered and recycled/composted to meet target	0.225	0.253	0.283	0.313	0.345	0.378	0.419	0.460	0.504	0.548	0.595	0.618	0.642	0.667	0.693	0.718	0.731	0.744	0.757	0.770	0.783
	Total MSW not-diverted by targets	0.418	0.406	0.393	0.380	0.365	0.349	0.324	0.297	0.269	0.239	0.209	0.197	0.185	0.173	0.160	0.147	0.148	0.148	0.148	0.149	0.149
	Percentage of MSW that is biodegradable (% by weight)	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68
	Total BMW not-diverted by targets	0.284	0.276	0.267	0.258	0.248	0.238	0.220	0.202	0.183	0.163	0.142	0.134	0.126	0.118	0.109	0.100	0.100	0.101	0.101	0.101	0.101
	LATS shortfall (how much extra is landfilled above LATS target)	-0.041	-0.039	-0.034	-0.024	-0.010	0.008	0.016	0.024	0.030	0.017	0.003	0.001	0.000	-0.002	-0.004	-0.007	-0.006	-0.006	-0.006	-0.006	-0.005
	Ratio of 'recovered' to 'recycled/composted' for target (%)	14%	17%	19%	20%	22%	23%	26%	28%	29%	31%	32%	33%	33%	33%	33%	34%	33%	32%	31%	30%	29%
	Extra MSW 'recovery' needed due to LATS shortfall	0.000	0.000	0.000	0.000	0.000	*0.002*	*0.004*	*0.007*	*0.009*	*0.005*	*0.001*	*0.000*	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Extra MSW 'recycling/composting' needed due to LATS shortfall	0.000	0.000	0.000	0.000	0.000	*0.006*	*0.012*	*0.017*	*0.021*	*0.012*	*0.002*	*0.001*	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

The section below in DATA_03 shows the tonnages by waste to meet targets.

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	Recycling and composting target	0.193	0.211	0.230	0.249	0.270	0.298	0.324	0.350	0.377	0.390	0.403	0.417	0.430	0.445	0.461	0.476	0.492	0.508	0.525	0.542	0.560
	Recovery target	0.032	0.042	0.053	0.064	0.075	0.089	0.111	0.134	0.157	0.175	0.194	0.203	0.212	0.222	0.232	0.242	0.239	0.235	0.232	0.228	0.224
	Non-hazardous landfill	0.418	0.406	0.393	0.380	0.365	0.341	0.307	0.273	0.239	0.223	0.206	0.196	0.185	0.173	0.160	0.147	0.148	0.148	0.148	0.149	0.149
	CHECK COUNTER (should be zero)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
c&i	Recycling and composting target	0.327	0.352	0.378	0.405	0.433	0.462	0.481	0.500	0.520	0.540	0.561	0.580	0.599	0.619	0.639	0.660	0.677	0.695	0.714	0.732	0.751
	Recovery target	0.114	0.119	0.124	0.128	0.133	0.139	0.151	0.164	0.177	0.190	0.204	0.209	0.215	0.220	0.225	0.231	0.229	0.227	0.224	0.222	0.220
	Non-hazardous landfill	0.376	0.367	0.357	0.347	0.336	0.324	0.311	0.298	0.285	0.270	0.255	0.247	0.238	0.228	0.219	0.209	0.204	0.200	0.195	0.190	0.185
	CHECK COUNTER (should be zero)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

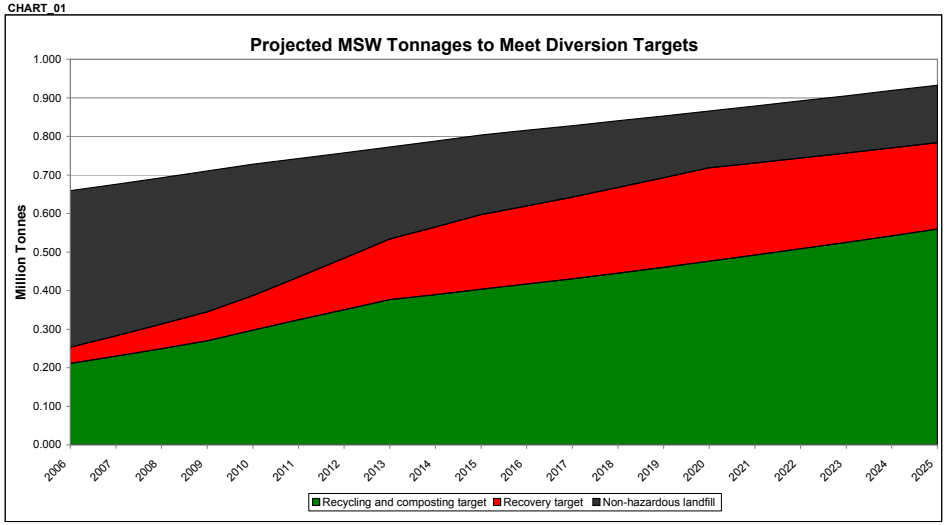
		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
c&d	Recycling target	0.846	0.865	0.884	0.903	0.922	0.941	0.941	0.941	0.941	0.941	0.941	0.978	1.016	1.053	1.091	1.129	1.129	1.129	1.129	1.129	1.129
	Recovery target	0.677	0.666	0.655	0.643	0.632	0.621	0.632	0.643	0.655	0.666	0.677	0.647	0.617	0.587	0.557	0.527	0.534	0.542	0.549	0.557	0.564
	Inert landfill	0.357	0.350	0.342	0.335	0.327	0.320	0.308	0.297	0.286	0.275	0.263	0.256	0.248	0.241	0.233	0.226	0.218	0.211	0.203	0.196	0.188
	CHECK COUNTER (should be zero)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
hazardous	Hazardous waste	0.023	0.023	0.024	0.024	0.025	0.026	0.026	0.027	0.027	0.028	0.028	0.029	0.029	0.030	0.030	0.030	0.031	0.031	0.031	0.032	0.032

DATA_06: TOTAL WASTE TONNAGES TO MEET TARGETS (Million Tonnes)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
MSW and C&I recycling and composting target	0.520	0.563	0.608	0.654	0.703	0.760	0.805	0.851	0.897	0.930	0.965	0.997	1.030	1.064	1.100	1.136	1.170	1.204	1.239	1.274	1.311
C&D recycling target	0.846	0.865	0.884	0.903	0.922	0.941	0.941	0.941	0.941	0.941	0.941	0.978	1.016	1.053	1.091	1.129	1.129	1.129	1.129	1.129	1.129
MSW and C&I recovery target	0.147	0.161	0.176	0.192	0.209	0.228	0.262	0.297	0.334	0.366	0.398	0.412	0.426	0.442	0.457	0.473	0.468	0.462	0.456	0.450	0.443
C&D recovery target	0.677	0.666	0.655	0.643	0.632	0.621	0.632	0.643	0.655	0.666	0.677	0.647	0.617	0.587	0.557	0.527	0.534	0.542	0.549	0.557	0.564
Non-hazardous landfill	0.794	0.773	0.750	0.726	0.700	0.665	0.618	0.571	0.523	0.493	0.462	0.443	0.423	0.402	0.379	0.356	0.352	0.348	0.343	0.339	0.334
Inert landfill	0.357	0.350	0.342	0.335	0.327	0.320	0.308	0.297	0.286	0.275	0.263	0.256	0.248	0.241	0.233	0.226	0.218	0.211	0.203	0.196	0.188
Hazardous waste	0.023	0.023	0.024	0.024	0.025	0.026	0.026	0.027	0.027	0.028	0.028	0.029	0.029	0.030	0.030	0.030	0.031	0.031	0.031	0.032	0.032

Surrey

CHART_01



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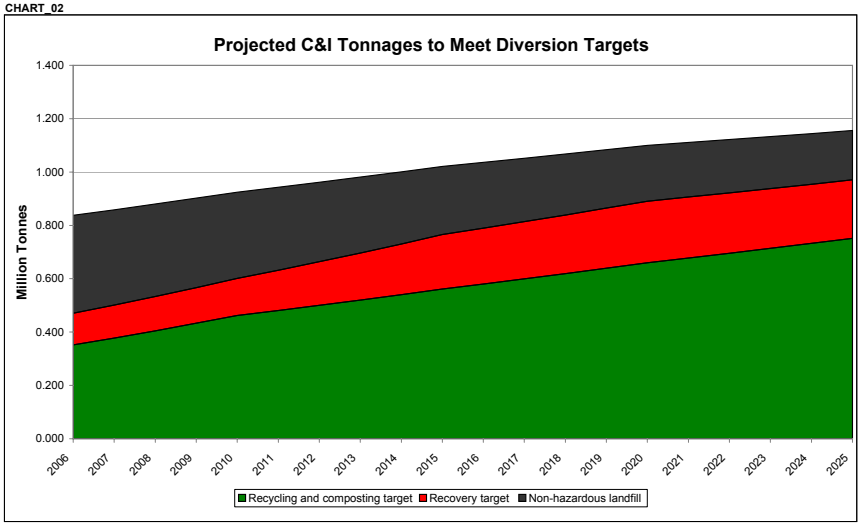

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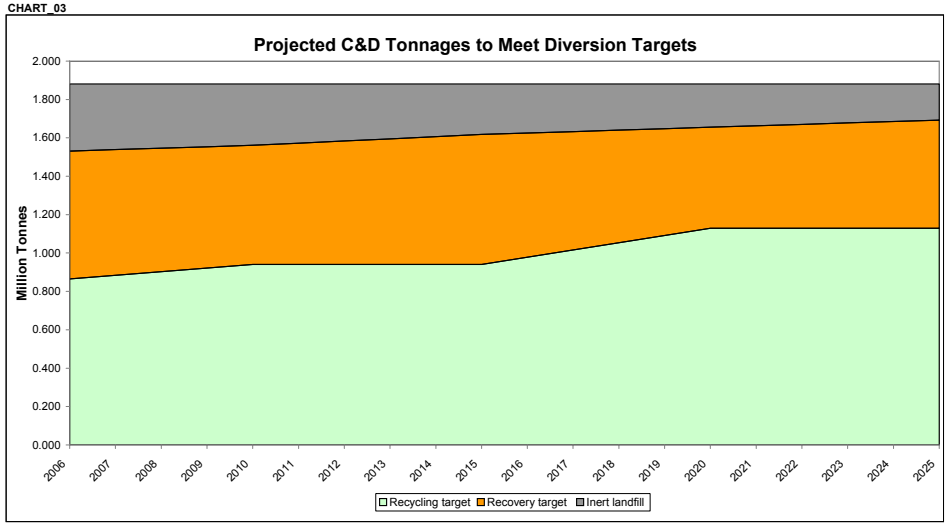

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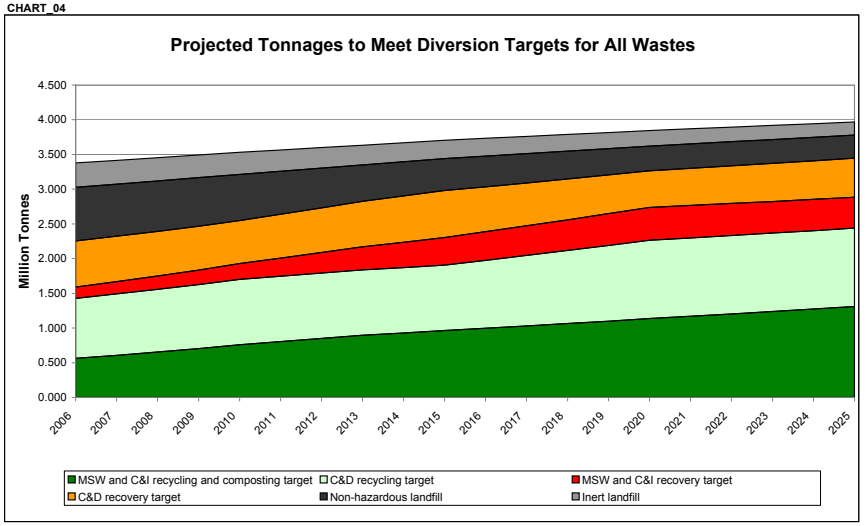
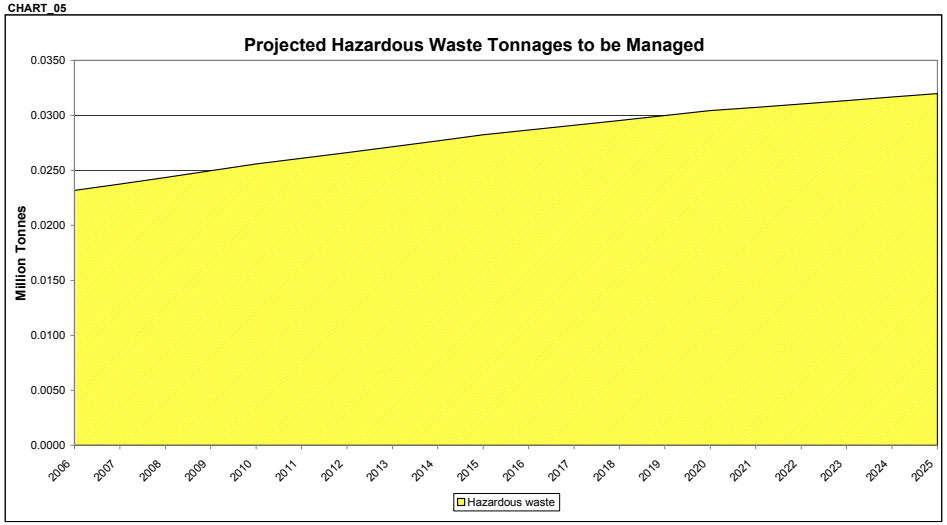


Surrey

CHART_05



DATA_07: EXISTING/PLANNED CAPACITY FOR RECYCLING, RECOVERY AND LANDFILLING AND TOTAL WASTE TONNAGES TO EACH DISPOSAL ROUTE (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
MSW and C&I recovery																					
MSW and C&I incineration (non-specialist)	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007
MSW and C&I treatment	0.134	0.134	0.134	0.134	0.134	0.134	0.134	0.134	0.134	0.134	0.134	0.134	0.134	0.134	0.134	0.134	0.134	0.134	0.134	0.134	0.134
Total existing/planned MSW and C&I recovery capacity	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141
Total MSW waste required to meet target	0.032	0.042	0.053	0.064	0.075	0.089	0.111	0.134	0.157	0.175	0.194	0.203	0.212	0.222	0.232	0.242	0.239	0.235	0.232	0.228	0.224
Total C&I waste required to meet target	0.114	0.119	0.124	0.128	0.133	0.139	0.151	0.164	0.177	0.190	0.204	0.209	0.215	0.220	0.225	0.231	0.229	0.227	0.224	0.222	0.220
Surplus/deficit capacity	-0.005	-0.020	-0.035	-0.051	-0.067	-0.087	-0.121	-0.156	-0.192	-0.224	-0.256	-0.271	-0.285	-0.300	-0.316	-0.332	-0.326	-0.321	-0.315	-0.308	-0.302
MSW and C&I recycling and composting																					
MSW and C&I recycling	1.194	1.194	1.194	1.194	1.194	1.194	1.194	1.194	1.194	1.194	1.194	1.194	1.194	1.194	1.194	1.194	1.194	1.194	1.194	1.194	1.194
MSW and C&I transfer	2.116	2.116	2.116	2.116	2.116	2.116	2.116	2.116	2.116	2.116	2.116	2.116	2.116	2.116	2.116	2.116	2.116	2.116	2.116	2.116	2.116
Total existing/planned composting capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
(1) Total existing/planned MSW and C&I recycling and composting capacity (Baseline: 20% of transfer capacity delivers recycling)	1.617	1.617	1.617	1.617	1.617	1.617	1.617	1.617	1.617	1.617	1.617	1.617	1.617	1.617	1.617	1.617	1.617	1.617	1.617	1.617	1.617
(2) Total existing/planned MSW and C&I recycling and composting capacity (Sensitivity: 5% of transfer capacity delivers recycling)	1.300	1.300	1.300	1.300	1.300	1.300	1.300	1.300	1.300	1.300	1.300	1.300	1.300	1.300	1.300	1.300	1.300	1.300	1.300	1.300	1.300
Total MSW waste required to meet recycling and composting target	0.193	0.211	0.230	0.249	0.270	0.298	0.324	0.350	0.377	0.390	0.403	0.417	0.430	0.445	0.461	0.476	0.492	0.508	0.525	0.542	0.560
Total C&I waste required to meet recycling and composting target	0.327	0.352	0.378	0.405	0.433	0.462	0.481	0.500	0.520	0.540	0.561	0.580	0.599	0.619	0.639	0.660	0.677	0.695	0.714	0.732	0.751
Surplus/deficit capacity (Baseline: 20% of transfer capacity delivers recycling)	1.097	1.054	1.010	0.963	0.914	0.857	0.812	0.767	0.721	0.687	0.652	0.620	0.587	0.553	0.517	0.481	0.448	0.413	0.378	0.343	0.306
Surplus/deficit capacity (Sensitivity: 5% of transfer capacity delivers recycling)	0.780	0.737	0.692	0.645	0.597	0.540	0.495	0.449	0.403	0.370	0.335	0.303	0.270	0.235	0.200	0.164	0.130	0.096	0.061	0.025	-0.011
C&D recycling																					
Total existing/planned C&D recycling capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total waste required to meet C&D recycling target	0.846	0.865	0.884	0.903	0.922	0.941	0.941	0.941	0.941	0.941	0.941	0.978	1.016	1.053	1.091	1.129	1.129	1.129	1.129	1.129	1.129
Surplus/deficit capacity	-0.846	-0.865	-0.884	-0.903	-0.922	-0.941	-0.941	-0.941	-0.941	-0.941	-0.941	-0.978	-1.016	-1.053	-1.091	-1.129	-1.129	-1.129	-1.129	-1.129	-1.129
C&D recovery																					
(3) REGIONAL total existing/planned C&D recovery capacity	1.877	1.794	1.710	1.627	1.544	1.460	1.439	1.418	1.398	1.377	1.356	1.325	1.293	1.262	1.231	1.199	1.220	1.241	1.262	1.283	1.304
Sub-regional total waste required to meet C&D recovery target	0.677	0.666	0.655	0.643	0.632	0.621	0.632	0.643	0.655	0.666	0.677	0.647	0.617	0.587	0.557	0.527	0.534	0.542	0.549	0.557	0.564
Surplus/deficit capacity	1.200	1.128	1.056	0.984	0.912	0.839	0.807	0.775	0.743	0.711	0.679	0.677	0.676	0.675	0.674	0.673	0.686	0.699	0.713	0.726	0.739
Hazardous waste recycling																					
Total existing/planned hazardous waste recycling capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total hazardous waste to be recycled	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Surplus/deficit capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hazardous waste recovery																					
Total existing/planned hazardous waste recovery capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total hazardous waste to be recovered	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Surplus/deficit capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Non-hazardous landfill																					
Available non-hazardous landfill capacity (excluding residues from MSW and C&I recovery)		8.515	7.427	6.356	5.305	4.274	3.272	2.317	1.409	0.549	-0.278	-1.071	-1.851	-2.615	-3.363	-4.094	-4.808	-5.520	-6.232	-6.943	-7.653
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'Incineration (non-specialist)'		8.515	7.403	6.306	5.225	4.163	3.127	2.132	1.180	0.270	-0.611	-1.465	-2.306	-3.134	-3.949	-4.748	-5.533	-6.315	-7.096	-7.876	-8.653
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'MBT'		8.515	7.332	6.157	4.992	3.838	2.702	1.592	0.509	-0.548	-1.590	-2.619	-3.641	-4.657	-5.666	-6.667	-7.659	-8.648	-9.632	-10.612	-11.588
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'RDF'		8.515	7.408	6.316	5.241	4.185	3.156	2.169	1.226	0.326	-0.545	-1.386	-2.215	-3.031	-3.832	-4.618	-5.388	-6.156	-6.923	-7.689	-8.453
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'treatment'		8.515	7.354	6.205	5.067	3.942	2.837	1.764	0.722	-0.287	-1.279	-2.251	-3.216	-4.173	-5.120	-6.057	-6.983	-7.906	-8.825	-9.741	-10.654
Total MSW and C&I waste sent direct to non-hazardous landfill		0.773	0.750	0.726	0.700	0.665	0.618	0.571	0.523	0.493	0.462	0.443	0.423	0.402	0.379	0.356	0.352	0.348	0.343	0.339	0.334
Inert landfill																					
Available inert landfill capacity		11.532	11.182	10.840	10.505	10.178	9.858	9.549	9.252	8.966	8.692	8.428	8.172	7.924	7.683	7.450	7.224	7.006	6.796	6.592	6.397
Available inert landfill capacity assuming all MSW and C&I recovery by 'Incineration (non-specialist)'		11.532	11.158	10.789	10.425	10.067	9.713	9.365	9.023	8.687	8.358	8.035	7.717	7.405	7.098	6.796	6.499	6.211	5.931	5.659	5.396
Total C&D waste sent direct to inert landfill (excludes residues from MSW and C&I recovery)	0.357	0.350	0.342	0.335	0.327	0.320	0.308	0.297	0.286	0.275	0.263	0.256	0.248	0.241	0.233	0.226	0.218	0.211	0.203	0.196	0.188
Hazardous landfill																					
Available hazardous landfill capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total hazardous waste sent direct to hazardous landfill		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Other																					
Metal/ELV facility	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024
Ignored	2.571	2.571	2.571	2.571	2.571	2.571	2.571	2.571	2.571	2.571	2.571	2.571	2.571	2.571	2.571	2.571	2.571	2.571	2.571	2.571	2.571
Closed	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

(1) ERM has assumed that 20% of the total "transfer' capacity will deliver recycling capacity
(2) ERM has assumed that 5% of the total "transfer' capacity will deliver recycling capacity
(3) Data for C&D recovery for landfill cover for the SE Region were sourced from the original MEL model, which sourced the data from Symonds (2001)
Landfill capacity data for 2005 were adapted from *Table R* in the ERM data template for each sub-region

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Surrey

DATA_08: RESIDUE RATES (%)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Recovery residues (% by weight)																					
MSW and C&I incineration (non-specialist) - bottom ash	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
MSW and C&I incineration (non-specialist) - fly ash	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
MSW and C&I to MBT	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59
MSW and C&I to RDF	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
MSW and C&I treatment - non-hazardous	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45
MSW and C&I treatment - hazardous	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Hazardous waste recovery	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Recycling residues (% by weight)																					
MSW and C&I recycling	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
MSW and C&I transfer	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
MSW and C&I composting	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
C&D recycling	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Hazardous waste recycling	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Other																					
Metal/ELV facility	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Ignored	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Closed	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Note: All residues are calculated on the amount of waste arising not on the maount of capacity available. This is complaince with the self-sufficiency requirements of PPS10.

DATA_09: TOTAL RESIDUE (Million Tonnes)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Recovery residues (of waste managed):																					
MSW and C&I incineration (non-specialist) - bottom ash	0.044	0.048	0.053	0.058	0.063	0.068	0.079	0.089	0.100	0.110	0.119	0.124	0.128	0.133	0.137	0.142	0.140	0.139	0.137	0.135	0.133
MSW and C&I incineration (non-specialist) - fly ash	0.004	0.005	0.005	0.006	0.006	0.007	0.008	0.009	0.010	0.011	0.012	0.012	0.013	0.013	0.014	0.014	0.014	0.014	0.014	0.013	0.013
MSW and C&I to MBT	0.086	0.095	0.104	0.113	0.123	0.134	0.155	0.175	0.197	0.216	0.235	0.243	0.252	0.261	0.270	0.279	0.276	0.273	0.269	0.265	0.262
MSW and C&I to RDF	0.018	0.019	0.021	0.023	0.025	0.027	0.031	0.036	0.040	0.044	0.048	0.049	0.051	0.053	0.055	0.057	0.056	0.055	0.055	0.054	0.053
MSW and C&I treatment - non-hazardous	0.066	0.073	0.079	0.086	0.094	0.103	0.118	0.134	0.150	0.164	0.179	0.185	0.192	0.199	0.206	0.213	0.211	0.208	0.205	0.202	0.200
MSW and C&I treatment - hazardous	0.007	0.008	0.009	0.010	0.010	0.011	0.013	0.015	0.017	0.018	0.020	0.021	0.021	0.022	0.023	0.024	0.023	0.023	0.023	0.022	0.022
Hazardous waste recovery	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Recycling residues (of waste managed):																					
MSW and C&I recycling and composting	0.078	0.084	0.091	0.098	0.105	0.114	0.121	0.128	0.134	0.140	0.145	0.150	0.154	0.160	0.165	0.170	0.175	0.181	0.186	0.191	0.197
C&D recycling	0.085	0.087	0.088	0.090	0.092	0.094	0.094	0.094	0.094	0.094	0.094	0.098	0.102	0.105	0.109	0.113	0.113	0.113	0.113	0.113	0.113
Hazardous waste recycling	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Note: All residues are calculated on the amount of waste arising not on the maount of capacity available. This is complaince with the self-sufficiency requirements of PPS10.

DATA_10: TOTAL MSW AND C&I RESIDUE FROM RECYCLING SENT TO NON-HAZARDOUS LANDFILL (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Total MSW and C&I recycling and composting residue sent to non-hazardous landfill	0.163	0.171	0.180	0.188	0.198	0.208	0.215	0.222	0.229	0.234	0.239	0.247	0.256	0.265	0.274	0.283	0.288	0.293	0.299	0.304	0.309

DATA_11: TOTAL MSW AND C&I RESIDUE FROM RECOVERY SENT TO NON-HAZARDOUS LANDFILL AND C&D RECYCLING (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
SCENARIO 1 - Assumes all recovery is by 'Non-specialist incineration' (based on total recovery capacity)																					
(1) Total MSW and C&I residue sent to non-hazardous landfill assuming all MSW and C&I recovery by 'Non-specialist incineration'	0.022	0.024	0.026	0.029	0.031	0.034	0.039	0.045	0.050	0.055	0.060	0.062	0.064	0.066	0.069	0.071	0.070	0.069	0.068	0.067	0.067
(1) Total MSW and C&I residue sent to inert landfill assuming all MSW and C&I recovery by 'Non-specialist incineration'	0.022	0.024	0.026	0.029	0.031	0.034	0.039	0.045	0.050	0.055	0.060	0.062	0.064	0.066	0.069	0.071	0.070	0.069	0.068	0.067	0.067
SCENARIO 2 - Assumes all recovery is by 'MBT' (based on total recovery capacity)																					
Total MSW and C&I residue sent to non-hazardous landfill	0.086	0.095	0.104	0.113	0.123	0.134	0.155	0.175	0.197	0.216	0.235	0.243	0.252	0.261	0.270	0.279	0.276	0.273	0.269	0.265	0.262
SCENARIO 3 - Assumes all recovery is by 'RDF' (based on total recovery capacity)																					
Total MSW and C&I residue sent to non-hazardous landfill	0.018	0.019	0.021	0.023	0.025	0.027	0.031	0.036	0.040	0.044	0.048	0.049	0.051	0.053	0.055	0.057	0.056	0.055	0.055	0.054	0.053
SCENARIO 4 - Assumes all recovery is by 'treatment' (based on total recovery capacity)																					
(2) Total MSW and C&I residue sent to non-hazardous landfill	0.066	0.073	0.079	0.086	0.094	0.103	0.118	0.134	0.150	0.164	0.179	0.185	0.192	0.199	0.206	0.213	0.211	0.208	0.205	0.202	0.200

(1) It was assumed that 50% of residue from 'non-specialist incineration' is sent to non-hazardous landfill and 50% is sent to inert landfill. In the original model assumptions developed MEL 50% was assumed to go to C&D recycling, rather than to inert landfi

DATA_12: TONNAGES OF C&D REUSED ON NON-HAZARDOUS AND INERT LANDFILL (Million Tonnes)

(1) C&D reused on landfill sites	39	%
(1) C&D reused on exempt sites	61	%
(1) C&D reused on landfill sites sent to 'non-haz landfill'	30	%
(1) C&D reused on landfill sites sent to 'inert landfill'	70	%

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
c&d	Total C&D reused on non-hazardous landfill	0.079	0.077	0.076	0.075	0.074	0.072	0.074	0.075	0.076	0.077	0.079	0.075	0.072	0.068	0.065	0.061	0.062	0.063	0.064	0.065	0.066
	Total reused C&D on inert landfill	0.184	0.181	0.178	0.175	0.172	0.169	0.172	0.175	0.178	0.181	0.184	0.176	0.168	0.159	0.151	0.143	0.145	0.147	0.149	0.151	0.153

(1) C&D reuse rates based on original model assumptions developed MEL

NOTE: C&D reuse on inert and non-hazardous landfill is not included within the charts because it has been assumed that data supplied by each sub-region has accounted for C&D reuse as an engineering material.

DATA_13: TOTAL MSW AND C&I RESIDUE FROM RECYCLING SENT TO HAZARDOUS LANDFILL (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Total MSW and C&I recycling and composting residue sent to hazardous landfill	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

DATA_14: TOTAL MSW AND C&I RESIDUE FROM RECOVERY SENT TO HAZARDOUS LANDFILL (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
SCENARIO 1 - Assumes all recovery is by 'Non-specialist incineration' (based on total recovery capacity)																					
Total MSW and C&I residue sent to hazardous landfill assuming all MSW and C&I recovery by 'Non-specialist incineration'	0.004	0.005	0.005	0.006	0.006	0.007	0.008	0.009	0.010	0.011	0.012	0.012	0.013	0.013	0.014	0.014	0.014	0.014	0.014	0.013	0.013
SCENARIO 2 - Assumes all recovery is by 'MBT' (based on total recovery capacity)																					
Total MSW and C&I residue sent to hazardous landfill	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SCENARIO 3 - Assumes all recovery is by 'RDF' (based on total recovery capacity)																					
Total MSW and C&I residue sent to hazardous landfill	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SCENARIO 4 - Assumes all recovery is by 'treatment' (based on total recovery capacity)																					
Total MSW and C&I residue sent to hazardous landfill	0.007	0.008	0.009	0.010	0.010	0.011	0.013	0.015	0.017	0.018	0.020	0.021	0.021	0.022	0.023	0.024	0.023	0.023	0.023	0.022	0.022

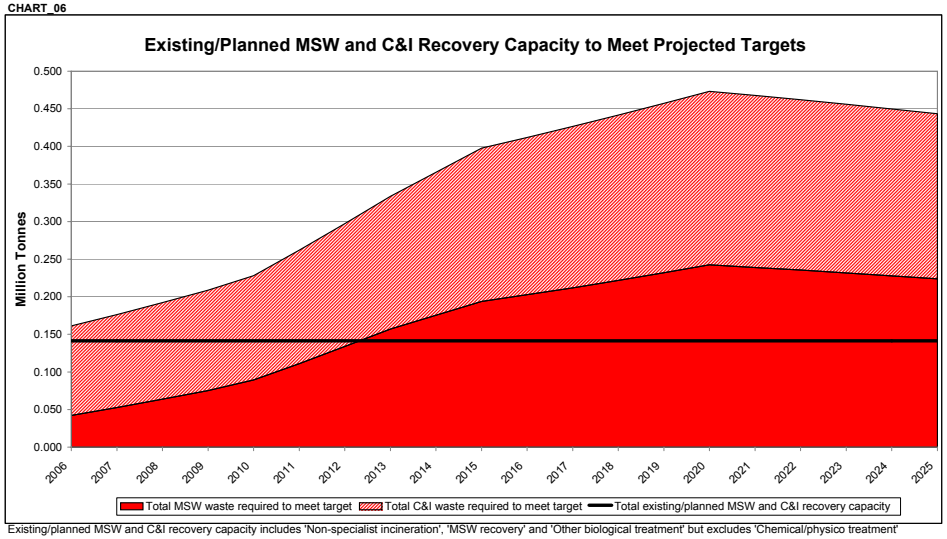
NOTE: This element of the model is redundant. There is currently no hazardous waste capacity figures to generate a chart of managed waste versus available capacity.

DATA_15: TOTAL HAZARDOUS WASTE RESIDUE FROM RECOVERY AND RECYCLING SENT TO HAZARDOUS LANDFILL (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Total hazardous waste recycling and recovery residue sent to hazardous landfill	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

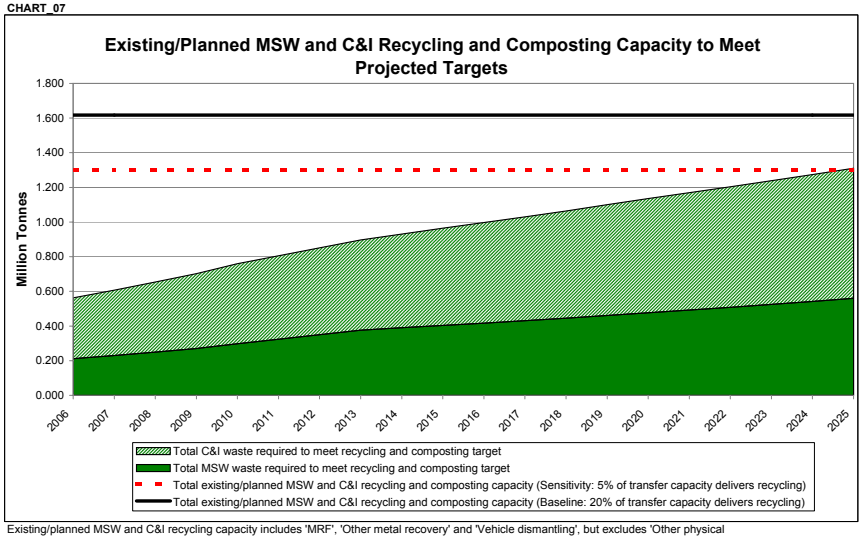
Surrey

CHART_06



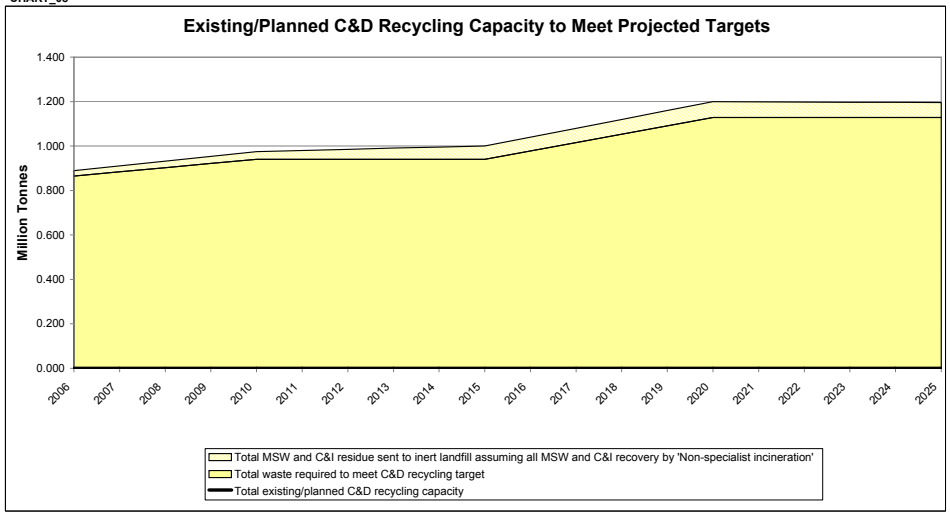
Existing/planned MSW and C&I recovery capacity includes 'Non-specialist incineration', 'MSW recovery' and 'Other biological treatment' but excludes 'Chemical/physico treatment'
NOTE: This capacity does not represent the quantity of material that is recovered.
NOTE: The original MEL model assumes that 'MSW recovery' capacity is incineration - but this is not made explicit.

CHART_07



Existing/planned MSW and C&I recycling capacity includes 'MRF', 'Other metal recovery' and 'Vehicle dismantling', but excludes 'Other physical treatment' (because this category includes CA sites)
NOTE: This capacity does not represent the quantity of material that is recycled and composted.

CHART_08



Surrey

CHART_09

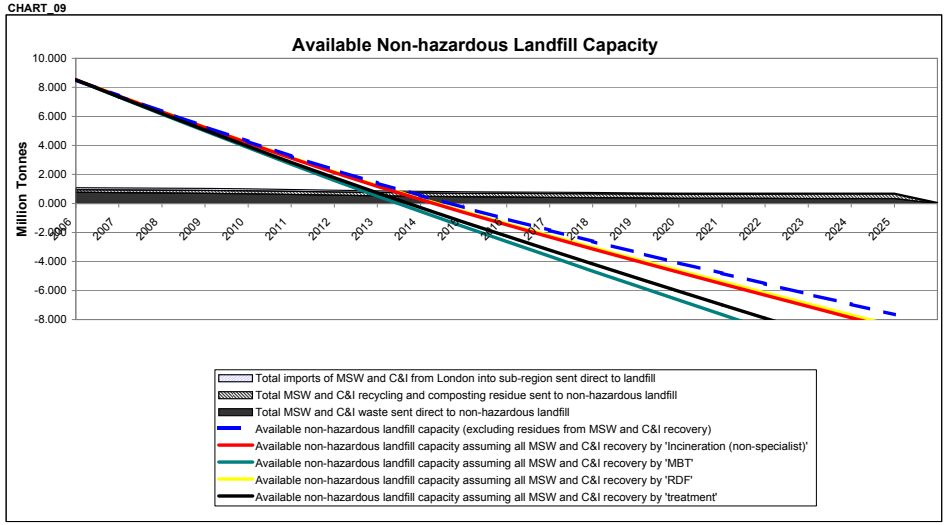
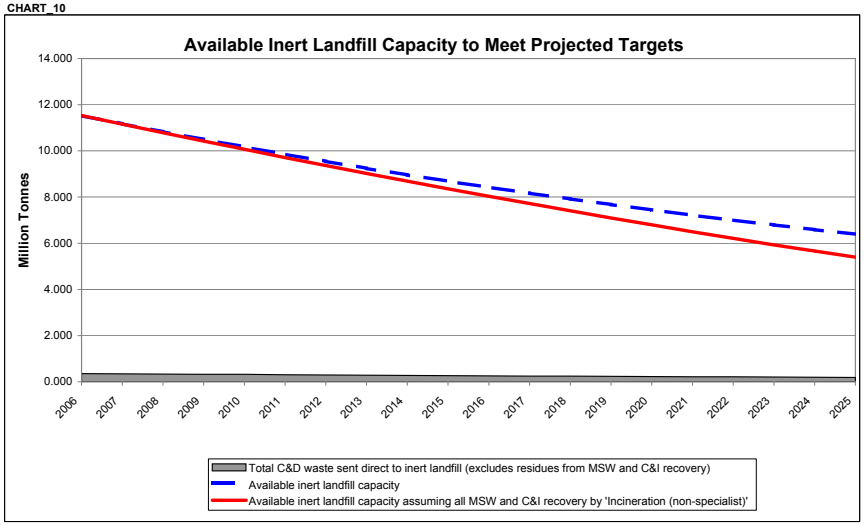


CHART_10



West Sussex

SUMMARY DATA AND RESULTS FOR WEST SUSSEX

MANAGED WASTE USED TO GENERATE RESULTS (Million Tonnes)		2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw		0.490	0.502	0.515	0.528	0.541	0.552	0.563	0.574	0.585	0.597	0.606	0.615	0.624	0.634	0.643	0.653	0.663	0.673	0.683	0.693
msw - imports from london that are sent direct to non-hazardous landfill		0.062	0.061	0.059	0.057	0.056	0.053	0.050	0.046	0.043	0.040	0.039	0.037	0.035	0.034	0.032	0.031	0.031	0.030	0.029	0.029
c&i		0.876	0.897	0.920	0.943	0.966	0.986	1.006	1.026	1.046	1.067	1.083	1.099	1.116	1.133	1.150	1.161	1.173	1.184	1.196	1.208
c&I - imports from london that are sent direct to non-hazardous landfill		0.111	0.108	0.105	0.103	0.100	0.094	0.089	0.083	0.077	0.072	0.069	0.066	0.063	0.060	0.057	0.056	0.054	0.053	0.051	0.050
c&d		1.302	1.302	1.302	1.302	1.302	1.302	1.302	1.302	1.302	1.302	1.302	1.302	1.302	1.302	1.302	1.302	1.302	1.302	1.302	1.302
hazardous		0.026	0.027	0.027	0.028	0.029	0.029	0.030	0.030	0.031	0.032	0.032	0.033	0.033	0.034	0.034	0.034	0.035	0.035	0.035	0.036

WASTE STREAM TONNAGES TO MEET TARGETS (Million Tonnes)		2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	LATS shortfall (how much extra is landfilled above LATS target)	-0.052	-0.045	-0.035	-0.021	-0.003	*0.004*	*0.010*	*0.016*	*0.006*	-0.004	-0.005	-0.005	-0.007	-0.008	-0.009	-0.009	-0.009	-0.009	-0.009	-0.008
	Recycling and composting target	0.157	0.171	0.185	0.200	0.216	0.235	0.255	0.275	0.285	0.299	0.309	0.320	0.331	0.342	0.354	0.366	0.378	0.390	0.403	0.416
	Recovery target	0.031	0.039	0.047	0.056	0.065	0.080	0.097	0.115	0.128	0.143	0.150	0.157	0.165	0.172	0.180	0.178	0.175	0.172	0.169	0.166
	Non-hazardous landfill	0.302	0.292	0.282	0.271	0.260	0.237	0.210	0.184	0.171	0.155	0.147	0.138	0.129	0.119	0.109	0.110	0.110	0.110	0.111	0.111
c&i	Recycling and composting target	0.368	0.395	0.423	0.453	0.483	0.503	0.523	0.544	0.565	0.587	0.607	0.627	0.647	0.668	0.690	0.708	0.727	0.746	0.766	0.785
	Recovery target	0.124	0.129	0.134	0.140	0.145	0.158	0.171	0.185	0.199	0.213	0.219	0.224	0.230	0.236	0.241	0.239	0.237	0.235	0.232	0.230
	Non-hazardous landfill	0.384	0.373	0.362	0.351	0.338	0.325	0.312	0.297	0.282	0.267	0.258	0.248	0.239	0.229	0.218	0.214	0.209	0.204	0.199	0.193
c&d	Recycling target	0.599	0.612	0.625	0.638	0.651	0.651	0.651	0.651	0.651	0.651	0.677	0.703	0.729	0.755	0.781	0.781	0.781	0.781	0.781	0.781
	Recovery target	0.461	0.453	0.445	0.437	0.430	0.437	0.445	0.453	0.461	0.469	0.448	0.427	0.406	0.385	0.365	0.370	0.375	0.380	0.385	0.391
	Inert landfill	0.242	0.237	0.232	0.227	0.221	0.214	0.206	0.198	0.190	0.182	0.177	0.172	0.167	0.161	0.156	0.151	0.146	0.141	0.135	0.130
hazardous	Hazardous waste	0.026	0.027	0.027	0.028	0.029	0.029	0.030	0.030	0.031	0.032	0.032	0.033	0.033	0.034	0.034	0.034	0.035	0.035	0.035	0.036

Note: If there is a LATS shortfall, denoted by a positive number, (ie insufficient allowance to landfill non-diverted waste) then the model assumes that this extra waste is recycled/composted and recovered at the same ratio as the regional targets for recycling/composting and recovery for that year.

EXISTING/PLANNED CAPACITY FOR RECYCLING, RECOVERY AND LANDFILLING AND TOTAL WASTE TONNAGES TO EACH DISPOSAL ROUTE (Million Tonnes)		2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
MSW and C&I recovery																					
	Total existing/planned MSW and C&I recovery capacity	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341
	Surplus/deficit capacity	0.186	0.173	0.160	0.146	0.132	0.103	0.073	0.042	0.014	-0.015	-0.028	-0.040	-0.053	-0.066	-0.080	-0.075	-0.070	-0.065	-0.060	-0.054
MSW and C&I recycling and composting																					
	Total existing/planned MSW and C&I recycling and composting capacity (Baseline: 20% of transfer capacity delivers recycling)	0.228	0.228	0.228	0.228	0.228	0.228	0.228	0.228	0.228	0.228	0.228	0.228	0.228	0.228	0.228	0.228	0.228	0.228	0.228	0.228
	Total existing/planned MSW and C&I recycling and composting capacity (Sensitivity: 5% of transfer capacity delivers recycling)	0.082	0.082	0.082	0.082	0.082	0.082	0.082	0.082	0.082	0.082	0.082	0.082	0.082	0.082	0.082	0.082	0.082	0.082	0.082	0.082
	Surplus/deficit capacity (Baseline: 20% of transfer capacity delivers recycling)	-0.296	-0.337	-0.380	-0.425	-0.471	-0.509	-0.550	-0.591	-0.622	-0.657	-0.687	-0.718	-0.750	-0.782	-0.815	-0.846	-0.877	-0.908	-0.940	-0.973
	Surplus/deficit capacity (Sensitivity: 5% of transfer capacity delivers recycling)	-0.443	-0.484	-0.527	-0.571	-0.618	-0.656	-0.696	-0.737	-0.769	-0.804	-0.834	-0.865	-0.896	-0.929	-0.962	-0.992	-1.023	-1.054	-1.087	-1.119
C&D recycling																					
	Total existing/planned C&D recycling capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Surplus/deficit capacity	-0.599	-0.612	-0.625	-0.638	-0.651	-0.651	-0.651	-0.651	-0.651	-0.651	-0.677	-0.703	-0.729	-0.755	-0.781	-0.781	-0.781	-0.781	-0.781	-0.781
C&D recovery																					
	REGIONAL total existing/planned C&D recovery capacity	1.794	1.710	1.627	1.544	1.460	1.439	1.418	1.398	1.377	1.356	1.325	1.293	1.262	1.231	1.199	1.220	1.241	1.262	1.283	1.304
	Surplus/deficit capacity	1.333	1.257	1.182	1.106	1.030	1.002	0.973	0.944	0.916	0.887	0.877	0.866	0.856	0.845	0.835	0.850	0.866	0.882	0.897	0.913
Hazardous waste recycling																					
	Total existing/planned hazardous waste recycling capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Surplus/deficit capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hazardous waste recovery																					
	Total existing/planned hazardous waste recovery capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Surplus/deficit capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Non-hazardous landfill																					
	Available non-hazardous landfill capacity (excluding residues from MSW and C&I recovery)	2.437	1.440	0.459	-0.503	-1.447	-2.370	-3.255	-4.097	-4.895	-5.663	-6.395	-7.111	-7.813	-8.498	-9.166	-9.818	-10.467	-11.115	-11.760	-12.403
	Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'Incineration (non-specialist)'	2.437	1.416	0.411	-0.579	-1.552	-2.507	-3.427	-4.309	-5.153	-5.969	-6.755	-7.527	-8.286	-9.030	-9.760	-10.474	-11.186	-11.895	-12.602	-13.305
	Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'MBT'	2.437	1.348	0.268	-0.802	-1.861	-2.908	-3.933	-4.933	-5.908	-6.869	-7.811	-8.746	-9.672	-10.590	-11.500	-12.399	-13.295	-14.185	-15.070	-15.951
	Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'RDF'	2.437	1.421	0.420	-0.564	-1.531	-2.480	-3.393	-4.267	-5.101	-5.908	-6.683	-7.444	-8.191	-8.924	-9.641	-10.343	-11.042	-11.739	-12.433	-13.125
	Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'treatment'	2.437	1.370	0.314	-0.731	-1.763	-2.780	-3.772	-4.735	-5.668	-6.582	-7.475	-8.358	-9.231	-10.094	-10.946	-11.787	-12.624	-13.456	-14.285	-15.109
Inert landfill																					
	Available inert landfill capacity	0.000	-0.242	-0.479	-0.711	-0.937	-1.159	-1.372	-1.578	-1.776	-1.966	-2.148	-2.325	-2.497	-2.664	-2.825	-2.982	-3.133	-3.278	-3.419	-3.554
	Available inert landfill capacity assuming all MSW and C&I recovery by 'Incineration (non-specialist)'	0.000	-0.266	-0.528	-0.787	-1.043	-1.295	-1.545	-1.791	-2.033	-2.273	-2.508	-2.741	-2.970	-3.196	-3.418	-3.638	-3.851	-4.059	-4.261	-4.456
Hazardous landfill																					
	Available hazardous landfill capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Note: The model does not contain data for the management of hazardous waste.																				

DATA_01: ARISINGS AND GROWTH RATES OF MSW, C&I AND HAZARDOUS WASTE (Million Tonnes)		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	Arisings of MSW in baseline year																					
	(1) Forecast regional level growth rate of MSW - per year (%)	3.0%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%
	(1) Forecast regional level growth rate of MSW - cumulative (%)	103%	106%	108%	111%	114%	117%	119%	121%	124%	126%	129%	131%	133%	135%	137%	139%	141%	143%	145%	147%	149%
	Total arisings of MSW using regional growth forecasts	0.478	0.490	0.502	0.515	0.528	0.541	0.552	0.563	0.574	0.585	0.597	0.606	0.615	0.624	0.634	0.643	0.653	0.663	0.673	0.683	0.693
	(1) Forecast sub-regional growth rate of MSW - per year (%)	3.0%	3.0%	3.0%	2.0%	2.0%	2.0%	2.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%
	(1) Forecast sub-regional level growth rate of MSW - cumulative (%)	103%	106%	109%	111%	114%	116%	118%	119%	121%	122%	123%	124%	126%	127%	128%	129%	131%	132%	133%	135%	136%
	Total arisings of MSW using sub-regional growth forecasts	0.478	0.492	0.507	0.517	0.528	0.538	0.549	0.554	0.560	0.565	0.571	0.577	0.583	0.588	0.594	0.600	0.606	0.612	0.618	0.625	0.631
c&i	Arisings of C&I in baseline year																					
	(1) Forecast regional level growth rate of C&I - per year (%)	3.3%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.0%	1.0%	1.0%	1.0%	1.0%
	(1) Forecast regional level growth rate of C&I - cumulative (%)	107%	109%	112%	115%	118%	121%	123%	126%	128%	131%	133%	135%	137%	139%	141%	144%	145%	146%	148%	149%	151%
	Total arisings of C&I using regional growth forecasts	0.854	0.876	0.897	0.920	0.943	0.966	0.986	1.006	1.026	1.046	1.067	1.083	1.099	1.116	1.133	1.150	1.161	1.173	1.184	1.196	1.208
	(1) Forecast sub-regional level growth rate of C&I - per year (%)	1.5%	1.5%	1.0%	1.0%	1.0%	0.5%	0.5%	0.5%	0.5%	0.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	(1) Forecast sub-regional level growth rate of C&I - cumulative (%)	103%	105%	106%	107%	108%	108%	109%	109%	110%	110%	110%	110%	110%	110%	110%	110%	110%	110%	110%	110%	110%
	Total arisings of C&I using sub-regional growth forecasts	0.825	0.838	0.846	0.854	0.863	0.867	0.872	0.876	0.880	0.885	0.885	0.885	0.885	0.885	0.885	0.885	0.885	0.885	0.885	0.885	0.885
hazardous	Arisings of hazardous waste in baseline year																					
	(2) Forecast regional level growth rate of hazardous waste - per year (%)	3.3%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.0%	1.0%	1.0%	1.0%	1.0%
	Forecast regional level growth rate of hazardous waste - cumulative (%)	107%	109%	112%	115%	118%	121%	123%	126%	128%	131%	133%	135%	137%	139%	141%	144%	145%	146%	148%	149%	151%
	Total arisings of hazardous waste	0.025	0.026	0.027	0.027	0.028	0.029	0.029	0.030	0.030	0.031	0.032	0.032	0.033	0.033	0.034	0.034	0.034	0.035	0.035	0.035	0.036
	(2) Forecast sub-regional level growth rate of hazardous waste - per year (%)	1.5%	1.5%	1.0%	1.0%	1.0%	0.5%	0.5%	0.5%	0.5%	0.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Forecast sub regional level growth rate of hazardous waste - cumulative (%)	103%	105%	106%	107%	108%	108%	109%	109%	110%	110%	110%	110%	110%	110%	110%	110%	110%	110%	110%	110%	110%
	Total arisings of hazardous waste	0.024	0.025	0.025	0.025	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026
c&d	Total managed C&D in baseline year																					
	(3) Forecast regional-level growth rate of managed C&D - per year (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Forecast regional-level growth rate of managed C&D - cumulative (%)	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
	(3) Total managed of C&D for the sub-region	1.302	1.302	1.302	1.302	1.302	1.302	1.302	1.302	1.302	1.302	1.302	1.302	1.302	1.302	1.302	1.302	1.302	1.302	1.302	1.302	1.302

(1) Figures from SEERA updated waste capacity model by ERM in 2005.
(2) Baseline year of hazardous waste arisings is 2003 from EA Hazardous Waste Interrogator. www.environment-agency.gov.uk/apps/wastesurvey2/. ERM has assumed that growth in hazardous waste is equal to C&I waste.
(3) These data represent managed C&D waste in the sub-region, including all intra-regional and inter-regional movements. Growth is assumed to be zero from the orginal MEL study and updated modeted by ERM in 2005.
NOTE: C&D waste is not included in arisings because this was taken from survey data by Symonds 2001 which gave values for managed C&D waste.

West Sussex

Figure in blue represent data supplied by each sub-region for the new '2006 SEERA Capacity and Need Model'
Figures in orange represent managed waste that are used by the model to calculate results. These can be adjusted for different scenarios.

DATA_02: INTER REGIONAL MOVEMENTS OF MSW and C&I (Million Tonnes)		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw and c&i	Regional level imports of MSW and C&I waste into the SE region from London	1.76	1.716	1.672	1.628	1.584	1.54	1.454	1.368	1.282	1.196	1.11	1.064	1.018	0.972	0.926	0.88	0.86	0.84	0.82	0.8	0.78
	Proportion of regional MSW and C&I imports that go to the sub-region (%)	10.1%	10.1%	10.1%	10.1%	10.1%	10.1%	10.1%	10.1%	10.1%	10.1%	10.1%	10.1%	10.1%	10.1%	10.1%	10.1%	10.1%	10.1%	10.1%	10.1%	10.1%
	(1) Total imports of MSW and C&I from London into sub-region sent direct to landfill	0.178	0.173	0.169	0.164	0.160	0.156	0.147	0.138	0.129	0.121	0.112	0.107	0.103	0.098	0.094	0.089	0.087	0.085	0.083	0.081	0.079
msw	Proportion of total MSW and C&I imports that are MSW (%) - REGIONAL GROWTH FORECAST	36%	36%	36%	36%	36%	36%	36%	36%	36%	36%	36%	36%	36%	36%	36%	36%	36%	36%	36%	36%	36%
	Total imports of MSW into the sub-region from London - REGIONAL GROWTH FORECAST	0.064	0.062	0.061	0.059	0.057	0.056	0.053	0.050	0.046	0.043	0.040	0.039	0.037	0.035	0.034	0.032	0.031	0.031	0.030	0.029	0.029
	Proportion of total MSW and C&I imports that are MSW (%) - SUB-REGIONAL GROWTH FORECAST	37%	37%	37%	38%	38%	38%	39%	39%	39%	39%	39%	39%	40%	40%	40%	40%	41%	41%	41%	41%	42%
	Total imports of MSW into the sub-region from London - SUB-REGIONAL GROWTH FORECAST	0.065	0.064	0.063	0.062	0.061	0.060	0.057	0.054	0.050	0.047	0.044	0.042	0.041	0.039	0.038	0.036	0.035	0.035	0.034	0.033	0.033
c&i	Proportion of total MSW and C&I imports that are C&I (%) - REGIONAL GROWTH FORECAST	64%	64%	64%	64%	64%	64%	64%	64%	64%	64%	64%	64%	64%	64%	64%	64%	64%	64%	64%	64%	64%
	Total imports of C&I into the sub-region from London - REGIONAL GROWTH FORECAST	0.114	0.111	0.108	0.105	0.103	0.100	0.094	0.089	0.083	0.077	0.072	0.069	0.066	0.063	0.060	0.057	0.056	0.054	0.053	0.051	0.050
	Proportion of total MSW and C&I imports that are C&I (%) - SUB-REGIONAL GROWTH FORECAST	63%	63%	63%	62%	62%	62%	61%	61%	61%	61%	61%	61%	60%	60%	60%	60%	59%	59%	59%	59%	58%
	Total imports of C&I into the sub-region from London - SUB-REGIONAL GROWTH FORECAST	0.113	0.109	0.106	0.102	0.099	0.096	0.090	0.085	0.079	0.074	0.068	0.065	0.062	0.059	0.056	0.053	0.052	0.050	0.049	0.047	0.046

(1) Intra-regional and inter-regional movements have been excluded for MSW and C&I waste due to self-sufficiency requirements under PPS10, except for inter-regional movements from London into the sub-region. Apportionment from Policy W3 in the Plan – downloa
Note: Only a figure is available for total combined imports of MSW and C&I waste. ERM has assumed that imports of the seperate waste streams of MSW and C&I was split according to tonnage arisings of MSW and C&I in the sub-region.

DATA_03: MANAGED WASTE USED TO GENERATE RESULTS (Million Tonnes)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	0.478	0.490	0.502	0.515	0.528	0.541	0.552	0.563	0.574	0.585	0.597	0.606	0.615	0.624	0.634	0.643	0.653	0.663	0.673	0.683	0.693
msw - imports from london that are sent direct to non-hazardous landfill	0.064	0.062	0.061	0.059	0.057	0.056	0.053	0.050	0.046	0.043	0.040	0.039	0.037	0.035	0.034	0.032	0.031	0.031	0.030	0.029	0.029
c&i	0.854	0.876	0.897	0.920	0.943	0.966	0.986	1.006	1.026	1.046	1.067	1.083	1.099	1.116	1.133	1.150	1.161	1.173	1.184	1.196	1.208
c&i - imports from london that are sent direct to non-hazardous landfill	0.114	0.111	0.108	0.105	0.103	0.100	0.094	0.089	0.083	0.077	0.072	0.069	0.066	0.063	0.060	0.057	0.056	0.054	0.053	0.051	0.050
c&d	1.302	1.302	1.302	1.302	1.302	1.302	1.302	1.302	1.302	1.302	1.302	1.302	1.302	1.302	1.302	1.302	1.302	1.302	1.302	1.302	1.302
hazardous	0.025	0.026	0.027	0.027	0.028	0.029	0.029	0.030	0.030	0.031	0.032	0.032	0.033	0.033	0.034	0.034	0.034	0.035	0.035	0.035	0.036

DATA_04: TARGETS (% or Million Tonnes)		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	(1) landfill (Mt)	0.266	0.257	0.244	0.227	0.205	0.180	0.160	0.140	0.120	0.115	0.109	0.104	0.099	0.094	0.089	0.084	0.084	0.084	0.084	0.084	0.084
	recovered (%)	5	6.4	7.8	9.2	10.6	12	14.4	16.8	19.2	21.6	24	24.8	25.6	26.4	27.2	28	27.2	26.4	25.6	24.8	24
	recycled and composted (%)	30	32.0	34.0	36.0	38.0	40	42.0	44.0	46.0	48.0	50	51.0	52.0	53.0	54.0	55	56.0	57.0	58.0	59.0	60
c&i	recovered (%)	14	14.2	14.4	14.6	14.8	15	16.0	17.0	18.0	19.0	20	20.2	20.4	20.6	20.8	21	20.6	20.2	19.8	19.4	19
	recycled and composted (%)	40	42.0	44.0	46.0	48.0	50	51.0	52.0	53.0	54.0	55	56.0	57.0	58.0	59.0	60	61.0	62.0	63.0	64.0	65
c&d	recovered (%)	36	35.4	34.8	34.2	33.6	33	33.6	34.2	34.8	35.4	36	34.4	32.8	31.2	29.6	28	28.4	28.8	29.2	29.6	30
	recycled (%)	45	46.0	47.0	48.0	49.0	50	50.0	50.0	50.0	50.0	50	52.0	54.0	56.0	58.0	60	60.0	60.0	60.0	60.0	60
hazardous	landfill (%)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	recovered (%)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	recycled (%)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

(1) ERM has assumed that the LATS target allowance remains constant at the 2020 value for the years beyond 2020

DATA_05: WASTE STREAM TONNAGES TO MEET TARGETS (Million Tonnes)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025

This first section of DATA_03 calculates if there is a LATS shortfall or suplus in each year. If there is a LATS shortfall (ie insufficient allowance to landfill non-diverted waste) then the model assumes that this extra waste is recycled/composted and r

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	Total MSW to be recovered and recycled/composted to meet target	0.167	0.188	0.210	0.233	0.256	0.281	0.311	0.342	0.374	0.407	0.442	0.459	0.477	0.496	0.515	0.534	0.543	0.553	0.562	0.572	0.582
	Total MSW not-diverted by targets	0.311	0.302	0.292	0.282	0.271	0.260	0.240	0.221	0.200	0.178	0.155	0.147	0.138	0.129	0.119	0.109	0.110	0.110	0.110	0.111	0.111
	Percentage of MSW that is biodegradable (% by weight)	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68
	Total BMW not-diverted by targets	0.211	0.205	0.199	0.192	0.184	0.176	0.164	0.150	0.136	0.121	0.106	0.100	0.094	0.087	0.081	0.074	0.075	0.075	0.075	0.075	0.075
	LATS shortfall (how much extra is landfilled above LATS target)	-0.054	-0.052	-0.045	-0.035	-0.021	-0.003	0.004	0.010	0.016	0.006	-0.004	-0.005	-0.005	-0.007	-0.008	-0.009	-0.009	-0.009	-0.009	-0.009	-0.008
	Ratio of 'recovered' to 'recycled/composted' for target (%)	14%	17%	19%	20%	22%	23%	26%	28%	29%	31%	32%	33%	33%	33%	33%	34%	33%	32%	31%	30%	29%
	Extra MSW 'recovery' needed due to LATS shortfall	0.000	0.000	0.000	0.000	0.000	0.000	*0.001*	*0.003*	*0.005*	*0.002*	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Extra MSW 'recycling/composting' needed due to LATS shortfall	0.000	0.000	0.000	0.000	0.000	0.000	*0.003*	*0.007*	*0.011*	*0.004*	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

The section below in DATA_03 shows the tonnages by waste to meet targets.

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	Recycling and composting target	0.143	0.157	0.171	0.185	0.200	0.216	0.235	0.255	0.275	0.285	0.299	0.309	0.320	0.331	0.342	0.354	0.366	0.378	0.390	0.403	0.416
	Recovery target	0.024	0.031	0.039	0.047	0.056	0.065	0.080	0.097	0.115	0.128	0.143	0.150	0.157	0.165	0.172	0.180	0.178	0.175	0.172	0.169	0.166
	Non-hazardous landfill	0.311	0.302	0.292	0.282	0.271	0.260	0.237	0.210	0.184	0.171	0.155	0.147	0.138	0.129	0.119	0.109	0.110	0.110	0.110	0.111	0.111
	CHECK COUNTER (should be zero)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
c&i	Recycling and composting target	0.342	0.368	0.395	0.423	0.453	0.483	0.503	0.523	0.544	0.565	0.587	0.607	0.627	0.647	0.668	0.690	0.708	0.727	0.746	0.766	0.785
	Recovery target	0.120	0.124	0.129	0.134	0.140	0.145	0.158	0.171	0.185	0.199	0.213	0.219	0.224	0.230	0.236	0.241	0.239	0.237	0.235	0.232	0.230
	Non-hazardous landfill	0.393	0.384	0.373	0.362	0.351	0.338	0.325	0.312	0.297	0.282	0.267	0.258	0.248	0.239	0.229	0.218	0.214	0.209	0.204	0.199	0.193
	CHECK COUNTER (should be zero)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

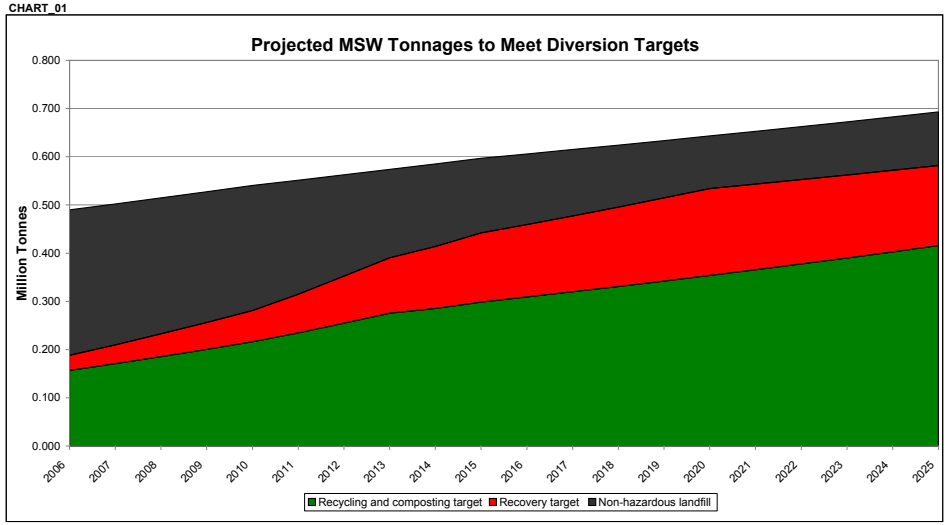
		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
c&d	Recycling target	0.586	0.599	0.612	0.625	0.638	0.651	0.651	0.651	0.651	0.651	0.651	0.677	0.703	0.729	0.755	0.781	0.781	0.781	0.781	0.781	0.781
	Recovery target	0.469	0.461	0.453	0.445	0.437	0.430	0.437	0.445	0.453	0.461	0.469	0.448	0.427	0.406	0.385	0.365	0.370	0.375	0.380	0.385	0.391
	Inert landfill	0.247	0.242	0.237	0.232	0.227	0.221	0.214	0.206	0.198	0.190	0.182	0.177	0.172	0.167	0.161	0.156	0.151	0.146	0.141	0.135	0.130
	CHECK COUNTER (should be zero)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
hazardous	Hazardous waste	0.025	0.026	0.027	0.027	0.028	0.029	0.029	0.030	0.030	0.031	0.032	0.032	0.033	0.033	0.034	0.034	0.034	0.035	0.035	0.035	0.036

DATA_06: TOTAL WASTE TONNAGES TO MEET TARGETS (Million Tonnes)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
MSW and C&I recycling and composting target	0.485	0.525	0.566	0.608	0.653	0.700	0.737	0.778	0.819	0.850	0.885	0.916	0.946	0.978	1.010	1.043	1.074	1.105	1.136	1.168	1.201
C&D recycling target	0.586	0.599	0.612	0.625	0.638	0.651	0.651	0.651	0.651	0.651	0.651	0.677	0.703	0.729	0.755	0.781	0.781	0.781	0.781	0.781	0.781
MSW and C&I recovery target	0.143	0.156	0.168	0.182	0.195	0.210	0.238	0.268	0.300	0.327	0.357	0.369	0.382	0.395	0.408	0.421	0.417	0.412	0.407	0.401	0.396
C&D recovery target	0.469	0.461	0.453	0.445	0.437	0.430	0.437	0.445	0.453	0.461	0.469	0.448	0.427	0.406	0.385	0.365	0.370	0.375	0.380	0.385	0.391
Non-hazardous landfill	0.704	0.685	0.666	0.644	0.622	0.598	0.562	0.522	0.481	0.454	0.422	0.404	0.386	0.367	0.348	0.328	0.323	0.319	0.314	0.309	0.304
Inert landfill	0.247	0.242	0.237	0.232	0.227	0.221	0.214	0.206	0.198	0.190	0.182	0.177	0.172	0.167	0.161	0.156	0.151	0.146	0.141	0.135	0.130
Hazardous waste	0.025	0.026	0.027	0.027	0.028	0.029	0.029	0.030	0.030	0.031	0.032	0.032	0.033	0.033	0.034	0.034	0.034	0.035	0.035	0.035	0.036

West Sussex

CHART_01



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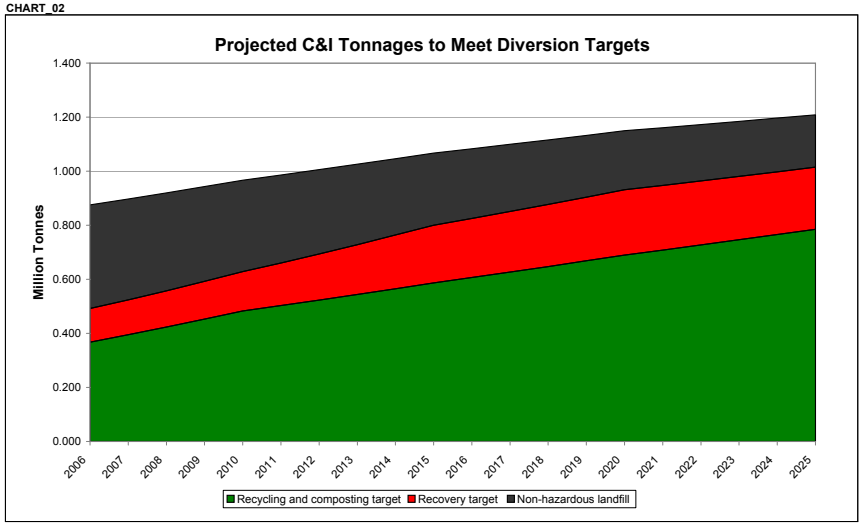

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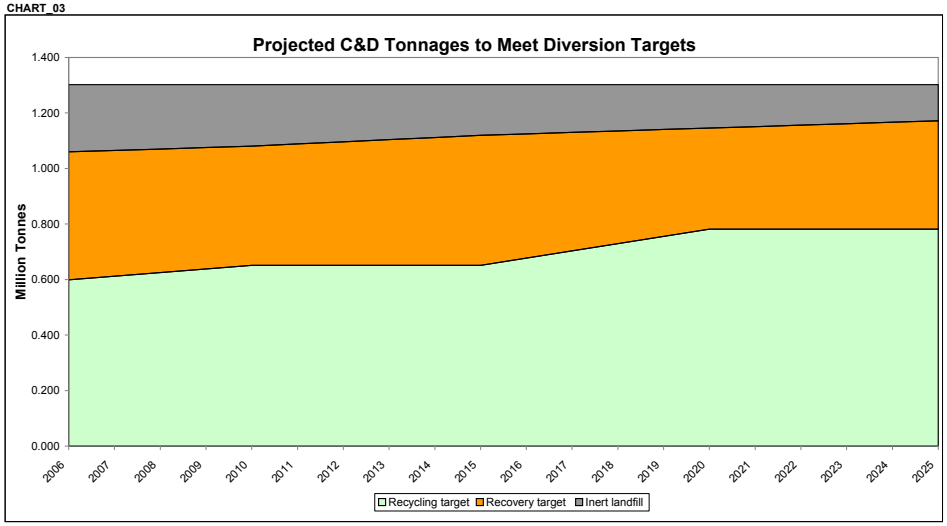

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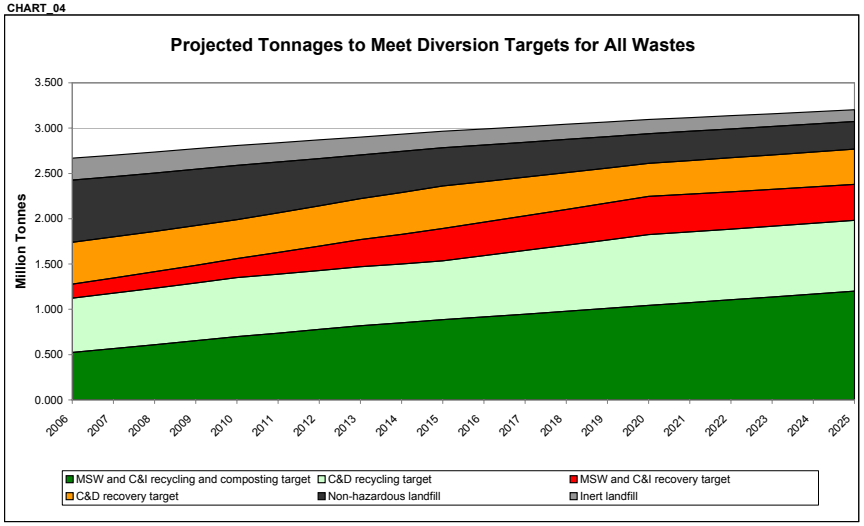
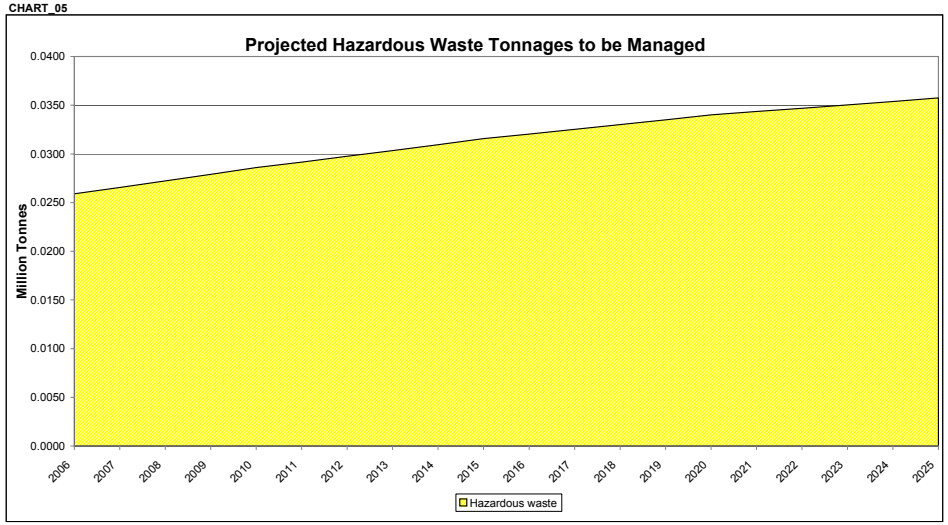


West Sussex

CHART_05



DATA_07: EXISTING/PLANNED CAPACITY FOR RECYCLING, RECOVERY AND LANDFILLING AND TOTAL WASTE TONNAGES TO EACH DISPOSAL ROUTE (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
MSW and C&I recovery																					
MSW and C&I incineration (non-specialist)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
MSW and C&I treatment	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341
Total existing/planned MSW and C&I recovery capacity	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341
Total MSW waste required to meet target	0.024	0.031	0.039	0.047	0.056	0.065	0.080	0.097	0.115	0.128	0.143	0.150	0.157	0.165	0.172	0.180	0.178	0.175	0.172	0.169	0.166
Total C&I waste required to meet target	0.120	0.124	0.129	0.134	0.140	0.145	0.158	0.171	0.185	0.199	0.213	0.219	0.224	0.230	0.236	0.241	0.239	0.237	0.235	0.232	0.230
Surplus/deficit capacity	0.198	0.186	0.173	0.160	0.146	0.132	0.103	0.073	0.042	0.014	-0.015	-0.028	-0.040	-0.053	-0.066	-0.080	-0.075	-0.070	-0.065	-0.060	-0.054
MSW and C&I recycling and composting																					
MSW and C&I recycling	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
MSW and C&I transfer	0.976	0.976	0.976	0.976	0.976	0.976	0.976	0.976	0.976	0.976	0.976	0.976	0.976	0.976	0.976	0.976	0.976	0.976	0.976	0.976	0.976
Total existing/planned composting capacity	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033
(1) Total existing/planned MSW and C&I recycling and composting capacity (Baseline: 20% of transfer capacity delivers recycling)	0.228	0.228	0.228	0.228	0.228	0.228	0.228	0.228	0.228	0.228	0.228	0.228	0.228	0.228	0.228	0.228	0.228	0.228	0.228	0.228	0.228
(2) Total existing/planned MSW and C&I recycling and composting capacity (Sensitivity: 5% of transfer capacity delivers recycling)	0.082	0.082	0.082	0.082	0.082	0.082	0.082	0.082	0.082	0.082	0.082	0.082	0.082	0.082	0.082	0.082	0.082	0.082	0.082	0.082	0.082
Total MSW waste required to meet recycling and composting target	0.143	0.157	0.171	0.185	0.200	0.216	0.235	0.255	0.275	0.285	0.299	0.309	0.320	0.331	0.342	0.354	0.366	0.378	0.390	0.403	0.416
Total C&I waste required to meet recycling and composting target	0.342	0.368	0.395	0.423	0.453	0.483	0.503	0.523	0.544	0.565	0.587	0.607	0.627	0.647	0.668	0.690	0.708	0.727	0.746	0.766	0.785
Surplus/deficit capacity (Baseline: 20% of transfer capacity delivers recycling)	-0.257	-0.296	-0.337	-0.380	-0.425	-0.471	-0.509	-0.550	-0.591	-0.622	-0.657	-0.687	-0.718	-0.750	-0.782	-0.815	-0.846	-0.877	-0.908	-0.940	-0.973
Surplus/deficit capacity (Sensitivity: 5% of transfer capacity delivers recycling)	-0.403	-0.443	-0.484	-0.527	-0.571	-0.618	-0.656	-0.696	-0.737	-0.769	-0.804	-0.834	-0.865	-0.896	-0.929	-0.962	-0.992	-1.023	-1.054	-1.087	-1.119
C&D recycling																					
Total existing/planned C&D recycling capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total waste required to meet C&D recycling target	0.586	0.599	0.612	0.625	0.638	0.651	0.651	0.651	0.651	0.651	0.651	0.677	0.703	0.729	0.755	0.781	0.781	0.781	0.781	0.781	0.781
Surplus/deficit capacity	-0.586	-0.599	-0.612	-0.625	-0.638	-0.651	-0.651	-0.651	-0.651	-0.651	-0.651	-0.677	-0.703	-0.729	-0.755	-0.781	-0.781	-0.781	-0.781	-0.781	-0.781
C&D recovery																					
(3) REGIONAL total existing/planned C&D recovery capacity	1.877	1.794	1.710	1.627	1.544	1.460	1.439	1.418	1.398	1.377	1.356	1.325	1.293	1.262	1.231	1.199	1.220	1.241	1.262	1.283	1.304
Sub-regional total waste required to meet C&D recovery target	0.469	0.461	0.453	0.445	0.437	0.430	0.437	0.445	0.453	0.461	0.469	0.448	0.427	0.406	0.385	0.365	0.370	0.375	0.380	0.385	0.391
Surplus/deficit capacity	1.409	1.333	1.257	1.182	1.106	1.030	1.002	0.973	0.944	0.916	0.887	0.877	0.866	0.856	0.845	0.835	0.850	0.866	0.882	0.897	0.913
Hazardous waste recycling																					
Total existing/planned hazardous waste recycling capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total hazardous waste to be recycled	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Surplus/deficit capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hazardous waste recovery																					
Total existing/planned hazardous waste recovery capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total hazardous waste to be recovered	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Surplus/deficit capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Non-hazardous landfill																					
Available non-hazardous landfill capacity (excluding residues from MSW and C&I recovery)		2.437	1.440	0.459	-0.503	-1.447	-2.370	-3.255	-4.097	-4.895	-5.663	-6.395	-7.111	-7.813	-8.498	-9.166	-9.818	-10.467	-11.115	-11.760	-12.403
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'Incineration (non-specialist)'		2.437	1.416	0.411	-0.579	-1.552	-2.507	-3.427	-4.309	-5.153	-5.969	-6.755	-7.527	-8.286	-9.030	-9.760	-10.474	-11.186	-11.895	-12.602	-13.305
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'MBT'		2.437	1.348	0.268	-0.802	-1.861	-2.908	-3.933	-4.933	-5.908	-6.869	-7.811	-8.746	-9.672	-10.590	-11.500	-12.399	-13.295	-14.185	-15.070	-15.951
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'RDF'		2.437	1.421	0.420	-0.564	-1.531	-2.480	-3.393	-4.267	-5.101	-5.908	-6.683	-7.444	-8.191	-8.924	-9.641	-10.343	-11.042	-11.739	-12.433	-13.125
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'treatment'		2.437	1.370	0.314	-0.731	-1.763	-2.780	-3.772	-4.735	-5.668	-6.582	-7.475	-8.358	-9.231	-10.094	-10.946	-11.787	-12.624	-13.456	-14.285	-15.109
Total MSW and C&I waste sent direct to non-hazardous landfill		0.685	0.666	0.644	0.622	0.598	0.562	0.522	0.481	0.454	0.422	0.404	0.386	0.367	0.348	0.328	0.323	0.319	0.314	0.309	0.304
Inert landfill																					
Available inert landfill capacity		0.000	-0.242	-0.479	-0.711	-0.937	-1.159	-1.372	-1.578	-1.776	-1.966	-2.148	-2.325	-2.497	-2.664	-2.825	-2.982	-3.133	-3.278	-3.419	-3.554
Available inert landfill capacity assuming all MSW and C&I recovery by 'Incineration (non-specialist)'		0.000	-0.266	-0.528	-0.787	-1.043	-1.295	-1.545	-1.791	-2.033	-2.273	-2.508	-2.741	-2.970	-3.196	-3.418	-3.638	-3.851	-4.059	-4.261	-4.456
Total C&D waste sent direct to inert landfill (excludes residues from MSW and C&I recovery)	0.247	0.242	0.237	0.232	0.227	0.221	0.214	0.206	0.198	0.190	0.182	0.177	0.172	0.167	0.161	0.156	0.151	0.146	0.141	0.135	0.130
Hazardous landfill																					
Available hazardous landfill capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total hazardous waste sent direct to hazardous landfill	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Other																					
Metal/ELV facility	0.505	0.505	0.505	0.505	0.505	0.505	0.505	0.505	0.505	0.505	0.505	0.505	0.505	0.505	0.505	0.505	0.505	0.505	0.505	0.505	0.505
Ignored	0.450	0.450	0.450	0.450	0.450	0.450	0.450	0.450	0.450	0.450	0.450	0.450	0.450	0.450	0.450	0.450	0.450	0.450	0.450	0.450	0.450
Closed	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

(1) ERM has assumed that 20% of the total "transfer' capacity will deliver recycling capacity
(2) ERM has assumed that 5% of the total "transfer' capacity will deliver recycling capacity
(3) Data for C&D recovery for landfill cover for the SE Region were sourced from the original MEL model, which sourced the data from Symonds (2001)
Landfill capacity data for 2005 were adapted from *Table R* in the ERM data template for each sub-region

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West Sussex

DATA_08: RESIDUE RATES (%)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Recovery residues (% by weight)																					
MSW and C&I incineration (non-specialist) - bottom ash	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
MSW and C&I incineration (non-specialist) - fly ash	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
MSW and C&I to MBT	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59
MSW and C&I to RDF	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
MSW and C&I treatment - non-hazardous	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45
MSW and C&I treatment - hazardous	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Hazardous waste recovery	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Recycling residues (% by weight)																					
MSW and C&I recycling	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
MSW and C&I transfer	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
MSW and C&I composting	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
C&D recycling	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Hazardous waste recycling	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Other																					
Metal/ELV facility	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Ignored	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Closed	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Note: All residues are calculated on the amount of waste arising not on the maount of capacity available. This is complaince with the self-sufficiency requirements of PPS10.

DATA_09: TOTAL RESIDUE (Million Tonnes)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Recovery residues (of waste managed):																					
MSW and C&I incineration (non-specialist) - bottom ash	0.043	0.047	0.051	0.054	0.059	0.063	0.071	0.080	0.090	0.098	0.107	0.111	0.115	0.118	0.122	0.126	0.125	0.124	0.122	0.120	0.119
MSW and C&I incineration (non-specialist) - fly ash	0.004	0.005	0.005	0.005	0.006	0.006	0.007	0.008	0.009	0.010	0.011	0.011	0.011	0.012	0.012	0.013	0.013	0.012	0.012	0.012	0.012
MSW and C&I to MBT	0.085	0.092	0.099	0.107	0.115	0.124	0.141	0.158	0.177	0.193	0.210	0.218	0.225	0.233	0.241	0.249	0.246	0.243	0.240	0.237	0.234
MSW and C&I to RDF	0.017	0.019	0.020	0.022	0.023	0.025	0.029	0.032	0.036	0.039	0.043	0.044	0.046	0.047	0.049	0.051	0.050	0.049	0.049	0.048	0.048
MSW and C&I treatment - non-hazardous	0.065	0.070	0.076	0.082	0.088	0.094	0.107	0.121	0.135	0.147	0.161	0.166	0.172	0.178	0.184	0.190	0.188	0.185	0.183	0.181	0.178
MSW and C&I treatment - hazardous	0.007	0.008	0.008	0.009	0.010	0.010	0.012	0.013	0.015	0.016	0.018	0.018	0.019	0.020	0.020	0.021	0.021	0.021	0.020	0.020	0.020
Hazardous waste recovery	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Recycling residues (of waste managed):																					
MSW and C&I recycling and composting	0.073	0.079	0.085	0.091	0.098	0.105	0.111	0.117	0.123	0.128	0.133	0.137	0.142	0.147	0.152	0.157	0.161	0.166	0.170	0.175	0.180
C&D recycling	0.059	0.060	0.061	0.062	0.064	0.065	0.065	0.065	0.065	0.065	0.065	0.068	0.070	0.073	0.076	0.078	0.078	0.078	0.078	0.078	0.078
Hazardous waste recycling	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Note: All residues are calculated on the amount of waste arising not on the maount of capacity available. This is complaince with the self-sufficiency requirements of PPS10.

DATA_10: TOTAL MSW AND C&I RESIDUE FROM RECYCLING SENT TO NON-HAZARDOUS LANDFILL (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Total MSW and C&I recycling and composting residue sent to non-hazardous landfill	0.131	0.139	0.146	0.154	0.162	0.170	0.176	0.182	0.188	0.193	0.198	0.205	0.212	0.220	0.227	0.235	0.239	0.244	0.249	0.253	0.258

DATA_11: TOTAL MSW AND C&I RESIDUE FROM RECOVERY SENT TO NON-HAZARDOUS LANDFILL AND C&D RECYCLING (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
SCENARIO 1 - Assumes all recovery is by 'Non-specialist incineration' (based on total recovery capacity)																					
(1) Total MSW and C&I residue sent to non-hazardous landfill assuming all MSW and C&I recovery by 'Non-specialist incineration'	0.022	0.023	0.025	0.027	0.029	0.031	0.036	0.040	0.045	0.049	0.054	0.055	0.057	0.059	0.061	0.063	0.063	0.062	0.061	0.060	0.059
(1) Total MSW and C&I residue sent to inert landfill assuming all MSW and C&I recovery by 'Non-specialist incineration'	0.022	0.023	0.025	0.027	0.029	0.031	0.036	0.040	0.045	0.049	0.054	0.055	0.057	0.059	0.061	0.063	0.063	0.062	0.061	0.060	0.059
SCENARIO 2 - Assumes all recovery is by 'MBT' (based on total recovery capacity)																					
Total MSW and C&I residue sent to non-hazardous landfill	0.085	0.092	0.099	0.107	0.115	0.124	0.141	0.158	0.177	0.193	0.210	0.218	0.225	0.233	0.241	0.249	0.246	0.243	0.240	0.237	0.234
SCENARIO 3 - Assumes all recovery is by 'RDF' (based on total recovery capacity)																					
Total MSW and C&I residue sent to non-hazardous landfill	0.017	0.019	0.020	0.022	0.023	0.025	0.029	0.032	0.036	0.039	0.043	0.044	0.046	0.047	0.049	0.051	0.050	0.049	0.049	0.048	0.048
SCENARIO 4 - Assumes all recovery is by 'treatment' (based on total recovery capacity)																					
(2) Total MSW and C&I residue sent to non-hazardous landfill	0.065	0.070	0.076	0.082	0.088	0.094	0.107	0.121	0.135	0.147	0.161	0.166	0.172	0.178	0.184	0.190	0.188	0.185	0.183	0.181	0.178

(1) It was assumed that 50% of residue from 'non-specialist incineration' is sent to non-hazardous landfill and 50% is sent to inert landfill. In the original model assumptions developed MEL 50% was assumed to go to C&D recycling, rather than to inert landfi

DATA_12: TONNAGES OF C&D REUSED ON NON-HAZARDOUS AND INERT LANDFILL (Million Tonnes)

(1) C&D reused on landfill sites	39 %
(1) C&D reused on exempt sites	61 %
(1) C&D reused on landfill sites sent to 'non-haz landfill'	30 %
(1) C&D reused on landfill sites sent to 'inert landfill'	70 %

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
c&d	Total C&D reused on non-hazardous landfill	0.055	0.054	0.053	0.052	0.051	0.050	0.051	0.052	0.053	0.054	0.055	0.052	0.050	0.047	0.045	0.042	0.043	0.044	0.044	0.045	0.045
	Total reused C&D on inert landfill	0.127	0.125	0.123	0.121	0.119	0.117	0.119	0.121	0.123	0.125	0.127	0.122	0.116	0.110	0.105	0.099	0.100	0.102	0.103	0.105	0.106

(1) C&D reuse rates based on original model assumptions developed MEL
NOTE: C&D reuse on inert and non-hazardous landfill is not included within the charts because it has been assumed that data supplied by each sub-region has accounted for C&D reuse as an engineering material.

DATA_13: TOTAL MSW AND C&I RESIDUE FROM RECYCLING SENT TO HAZARDOUS LANDFILL (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Total MSW and C&I recycling and composting residue sent to hazardous landfill	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

DATA_14: TOTAL MSW AND C&I RESIDUE FROM RECOVERY SENT TO HAZARDOUS LANDFILL (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
SCENARIO 1 - Assumes all recovery is by 'Non-specialist incineration' (based on total recovery capacity)																					
Total MSW and C&I residue sent to hazardous landfill assuming all MSW and C&I recovery by 'Non-specialist incineration'	0.004	0.005	0.005	0.005	0.006	0.006	0.007	0.008	0.009	0.010	0.011	0.011	0.011	0.012	0.012	0.013	0.013	0.012	0.012	0.012	0.012
SCENARIO 2 - Assumes all recovery is by 'MBT' (based on total recovery capacity)																					
Total MSW and C&I residue sent to hazardous landfill	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SCENARIO 3 - Assumes all recovery is by 'RDF' (based on total recovery capacity)																					
Total MSW and C&I residue sent to hazardous landfill	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SCENARIO 4 - Assumes all recovery is by 'treatment' (based on total recovery capacity)																					
Total MSW and C&I residue sent to hazardous landfill	0.007	0.008	0.008	0.009	0.010	0.010	0.012	0.013	0.015	0.016	0.018	0.018	0.019	0.020	0.020	0.021	0.021	0.021	0.020	0.020	0.020

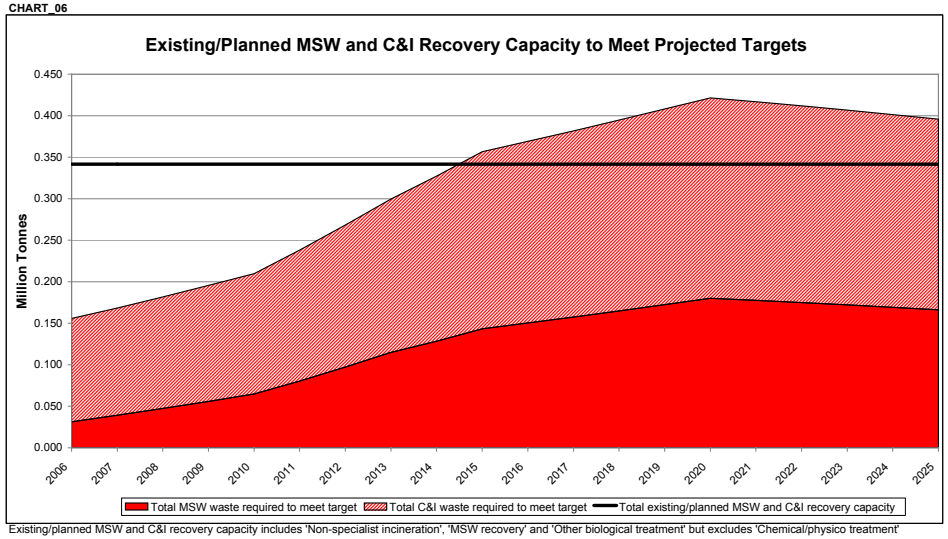
NOTE: This element of the model is redundant. There is currently no hazardous waste capacity figures to generate a chart of managed waste versus available capacity.

DATA_15: TOTAL HAZARDOUS WASTE RESIDUE FROM RECOVERY AND RECYCLING SENT TO HAZARDOUS LANDFILL (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Total hazardous waste recycling and recovery residue sent to hazardous landfill	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

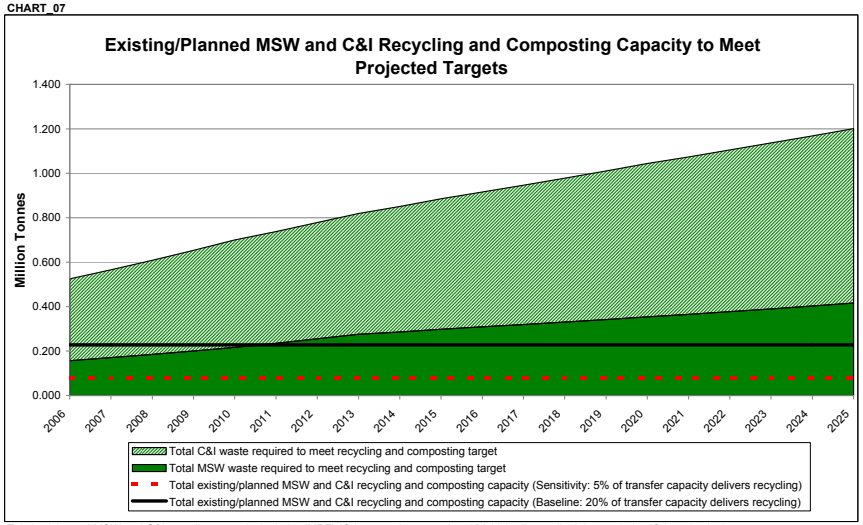
West Sussex

CHART_06



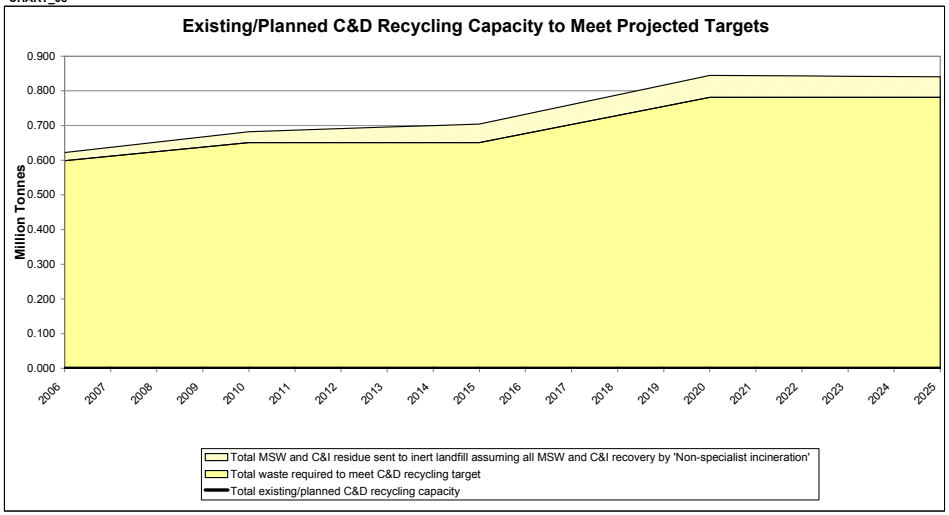
Existing/planned MSW and C&I recovery capacity includes 'Non-specialist incineration', 'MSW recovery' and 'Other biological treatment' but excludes 'Chemical/physico treatment'
NOTE: This capacity does not represent the quantity of material that is recovered.
NOTE: The original MEL model assumes that 'MSW recovery' capacity is incineration - but this is not made explicit.

CHART_07



Existing/planned MSW and C&I recycling capacity includes 'MRF', 'Other metal recovery' and 'Vehicle dismantling', but excludes 'Other physical treatment' (because this category includes CA sites)
NOTE: This capacity does not represent the quantity of material that is recycled and composted.

CHART_08



West Sussex

CHART_09

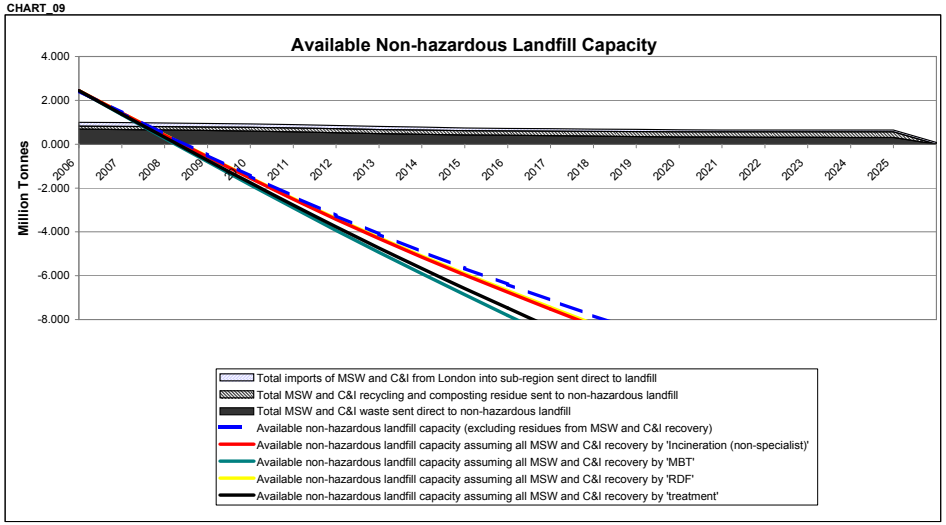
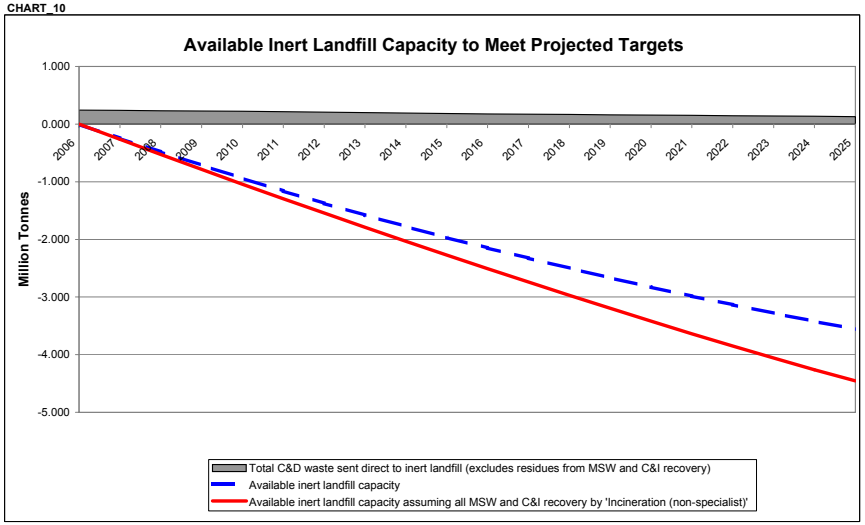


CHART_10



Scenario 2

SE Region

SUMMARY DATA AND RESULTS FOR SE REGION

MANAGED WASTE USED TO GENERATE RESULTS (Million Tonnes)	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	4.886	5.008	5.133	5.261	5.393	5.501	5.611	5.723	5.837	5.954	6.043	6.134	6.226	6.319	6.414	6.510	6.608	6.707	6.808	6.910
msw - imports from london that are sent direct to non-hazardous landfill	0.703	0.685	0.667	0.649	0.631	0.596	0.560	0.525	0.490	0.455	0.436	0.417	0.398	0.379	0.360	0.353	0.346	0.339	0.331	0.324
c&i	8.206	8.411	8.621	8.837	9.058	9.239	9.423	9.612	9.804	10.000	10.150	10.302	10.457	10.614	10.773	10.881	10.990	11.100	11.211	11.323
c&i - imports from london that are sent direct to non-hazardous landfill	1.011	0.985	0.960	0.934	0.908	0.857	0.806	0.756	0.705	0.654	0.627	0.600	0.573	0.546	0.519	0.506	0.493	0.481	0.468	0.456
c&d	12.134	12.134	12.134	12.134	12.134	12.134	12.134	12.134	12.134	12.134	12.134	12.134	12.134	12.134	12.134	12.134	12.134	12.134	12.134	12.134
hazardous	0.485	0.497	0.510	0.522	0.535	0.546	0.557	0.568	0.579	0.591	0.600	0.609	0.618	0.627	0.637	0.643	0.650	0.656	0.663	0.669

WASTE STREAM TONNAGES TO MEET TARGETS (Million Tonnes)		2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	LATS shortfall (how much extra is landfilled above LATS target)	-0.180	-0.142	-0.073	*0.024*	*0.151*	*0.201*	*0.245*	*0.283*	*0.181*	*0.073*	*0.061*	*0.047*	*0.030*	*0.012*	-0.008	-0.006	-0.004	-0.002	*0.000*	*0.002*
	Recycling and composting target	1.563	1.703	1.848	2.018	2.274	2.460	2.646	2.832	2.927	3.026	3.123	3.221	3.320	3.421	3.528	3.646	3.767	3.890	4.017	4.147
	Recovery target	0.313	0.391	0.472	0.563	0.682	0.843	1.010	1.182	1.317	1.453	1.519	1.586	1.654	1.723	1.796	1.771	1.745	1.717	1.688	1.659
	Non-hazardous landfill	3.010	2.914	2.813	2.680	2.437	2.197	1.954	1.709	1.593	1.475	1.402	1.327	1.252	1.176	1.090	1.094	1.097	1.100	1.103	1.104
c&i	Recycling and composting target	3.446	3.701	3.966	4.242	4.529	4.712	4.900	5.094	5.294	5.500	5.684	5.872	6.065	6.262	6.464	6.637	6.814	6.993	7.175	7.360
	Recovery target	1.165	1.211	1.259	1.308	1.359	1.478	1.602	1.730	1.863	2.000	2.050	2.102	2.154	2.208	2.262	2.241	2.220	2.198	2.175	2.151
	Non-hazardous landfill	3.594	3.499	3.397	3.287	3.170	3.049	2.921	2.787	2.647	2.500	2.416	2.328	2.238	2.144	2.047	2.002	1.956	1.909	1.861	1.812
c&d	Recycling target	5.582	5.703	5.824	5.946	6.067	6.067	6.067	6.067	6.067	6.067	6.310	6.552	6.795	7.038	7.280	7.280	7.280	7.280	7.280	7.280
	Recovery target	4.295	4.223	4.150	4.077	4.004	4.077	4.150	4.223	4.295	4.368	4.174	3.980	3.786	3.592	3.397	3.446	3.495	3.543	3.592	3.640
	Inert landfill	2.257	2.208	2.160	2.111	2.063	1.990	1.917	1.844	1.772	1.699	1.650	1.602	1.553	1.505	1.456	1.408	1.359	1.310	1.262	1.213
hazardous	Hazardous waste	0.485	0.497	0.510	0.522	0.535	0.546	0.557	0.568	0.579	0.591	0.600	0.609	0.618	0.627	0.637	0.643	0.650	0.656	0.663	0.669

Note: If there is a LATS shortfall, denoted by a positive number, (ie insufficient allowance to landfill non-diverted waste) then the model assumes that this extra waste is recycled/composted and recovered at the same ratio as the regional targets for recycling/composting and recovery for that year.

EXISTING/PLANNED CAPACITY FOR RECYCLING, RECOVERY AND LANDFILLING AND TOTAL WASTE TONNAGES TO EACH DISPOSAL ROUTE (Million Tonnes)		2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
MSW and C&I recovery																					
	Total existing/planned MSW and C&I recovery capacity	3.077	3.077	3.077	3.077	3.077	3.077	3.077	3.077	3.077	3.077	3.077	3.077	3.077	3.077	3.077	3.077	3.077	3.077	3.077	3.077
	Surplus/deficit capacity	1.599	1.475	1.346	1.206	1.036	0.755	0.464	0.164	-0.103	-0.376	-0.492	-0.611	-0.731	-0.854	-0.982	-0.936	-0.888	-0.838	-0.787	-0.734
MSW and C&I recycling and composting																					
	Total existing/planned MSW and C&I recycling and composting capacity (Baseline: 20% of transfer capacity delivers recycling)	9.923	9.923	9.923	9.923	9.923	9.923	9.923	9.923	9.923	9.923	9.923	9.923	9.923	9.923	9.923	9.923	9.923	9.923	9.923	9.923
	Total existing/planned MSW and C&I recycling and composting capacity (Sensitivity: 5% of transfer capacity delivers recycling)	8.193	8.193	8.193	8.193	8.193	8.193	8.193	8.193	8.193	8.193	8.193	8.193	8.193	8.193	8.193	8.193	8.193	8.193	8.193	8.193
	Surplus/deficit capacity (Baseline: 20% of transfer capacity delivers recycling)	4.913	4.520	4.109	3.663	3.121	2.751	2.377	1.997	1.702	1.397	1.116	0.830	0.538	0.240	-0.069	-0.360	-0.657	-0.960	-1.268	-1.584
	Surplus/deficit capacity (Sensitivity: 5% of transfer capacity delivers recycling)	3.183	2.790	2.379	1.933	1.391	1.021	0.647	0.267	-0.028	-0.334	-0.614	-0.900	-1.192	-1.490	-1.799	-2.090	-2.387	-2.690	-2.999	-3.314
C&D recycling																					
	Total existing/planned C&D recycling capacity	0.309	0.309	0.309	0.309	0.309	0.309	0.309	0.309	0.309	0.309	0.309	0.309	0.309	0.309	0.309	0.309	0.309	0.309	0.309	0.309
	Surplus/deficit capacity	-5.273	-5.394	-5.515	-5.637	-5.758	-5.758	-5.758	-5.758	-5.758	-5.758	-6.001	-6.243	-6.486	-6.729	-6.971	-6.971	-6.971	-6.971	-6.971	-6.971
C&D recovery																					
	REGIONAL total existing/planned C&D recovery capacity	1.794	1.710	1.627	1.544	1.460	1.439	1.418	1.398	1.377	1.356	1.325	1.293	1.262	1.231	1.199	1.220	1.241	1.262	1.283	1.304
	Surplus/deficit capacity	-2.502	-2.512	-2.523	-2.533	-2.544	-2.638	-2.731	-2.825	-2.919	-3.012	-2.849	-2.687	-2.524	-2.361	-2.198	-2.226	-2.253	-2.281	-2.309	-2.336
Hazardous waste recycling																					
	Total existing/planned hazardous waste recycling capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Surplus/deficit capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hazardous waste recovery																					
	Total existing/planned hazardous waste recovery capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Surplus/deficit capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Non-hazardous landfill																					
	Available non-hazardous landfill capacity (excluding residues from MSW and C&I recovery)	62.728	53.101	43.636	34.346	25.263	16.490	8.109	0.128	-7.445	-14.720	-21.690	-28.522	-35.214	-41.762	-48.163	-54.407	-60.632	-66.839	-73.028	-79.198
	Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'Incineration (non-specialist)'	62.672	52.822	43.118	33.568	24.204	15.125	6.396	-1.977	-9.986	-17.738	-25.226	-32.594	-39.839	-46.958	-53.949	-60.801	-67.628	-74.430	-81.206	-87.955
	Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'MBT'	62.506	52.007	41.597	31.286	21.099	11.122	1.371	-8.151	-17.442	-26.593	-35.600	-44.538	-53.405	-62.200	-70.920	-79.558	-88.151	-96.697	-105.195	-113.644
	Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'RDF'	62.683	52.878	43.221	33.723	24.416	15.398	6.739	-1.556	-9.478	-17.135	-24.519	-31.779	-38.914	-45.919	-52.792	-59.522	-66.229	-72.912	-79.571	-86.204
	Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'treatment'	62.559	52.266	42.081	32.012	22.087	12.396	2.970	-6.186	-15.069	-23.776	-32.299	-40.737	-49.089	-57.350	-65.520	-73.590	-81.621	-89.612	-97.562	-105.471
Inert landfill																					
	Available inert landfill capacity	70.832	68.576	66.367	64.207	62.096	60.033	58.043	56.126	54.282	52.510	50.812	49.162	47.560	46.007	44.502	43.046	41.639	40.280	38.969	37.707
	Available inert landfill capacity assuming all MSW and C&I recovery by 'Incineration (non-specialist)'	70.776	68.297	65.849	63.429	61.038	58.669	56.331	54.022	51.740	49.492	47.275	45.090	42.935	40.811	38.716	36.652	34.642	32.689	30.791	28.950
Hazardous landfill																					
	Available hazardous landfill capacity	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309

Note: The model does not contain data for the management of hazardous waste.

DATA_01: ARISINGS AND GROWTH RATES OF MSW, C&I AND HAZARDOUS WASTE (Million Tonnes)		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	Arisings of MSW in baseline year																					
	(1) Forecast regional level growth rate of MSW - per year (%)	3.0%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%
	(1) Forecast regional level growth rate of MSW - cumulative (%)																					
	Total arisings of MSW using regional growth forecasts	4.766	4.886	5.008	5.133	5.261	5.393	5.501	5.611	5.723	5.837	5.954	6.043	6.134	6.226	6.319	6.414	6.510	6.608	6.707	6.808	6.910
	(1) Forecast sub-regional growth rate of MSW - per year (%)	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%
	(1) Forecast sub-regional level growth rate of MSW - cumulative (%)																					
	Total arisings of MSW using sub-regional growth forecasts	4.747	4.862	4.976	5.088	5.202	5.312	5.409	5.499	5.591	5.685	5.779	5.857	5.935	6.015	6.085	6.162	6.240	6.320	6.400	6.482	6.565
c&i	Arisings of C&I in baseline year																					
	(1) Forecast regional level growth rate of C&I - per year (%)	3.3%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.0%	1.0%	1.0%	1.0%	1.0%
	(1) Forecast regional level growth rate of C&I - cumulative (%)																					
	Total arisings of C&I using regional growth forecasts	8.006	8.206	8.411	8.621	8.837	9.058	9.239	9.423	9.612	9.804	10.000	10.150	10.302	10.457	10.614	10.773	10.881	10.990	11.100	11.211	11.323
	(1) Forecast sub-regional level growth rate of C&I - per year (%)	3.3%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.0%	1.0%	1.0%	1.0%	1.0%
	(1) Forecast sub-regional level growth rate of C&I - cumulative (%)																					
	Total arisings of C&I using sub-regional growth forecasts	7.903	8.080	8.256	8.437	8.622	8.806	8.961	9.118	9.279	9.443	9.598	9.719	9.842	9.967	10.093	10.214	10.297	10.380	10.464	10.550	10.636
hazardous	Arisings of hazardous waste in baseline year																					
	(2) Forecast regional level growth rate of hazardous waste - per year (%)	3.3%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.0%	1.0%	1.0%	1.0%	1.0%
	Forecast regional level growth rate of hazardous waste - cumulative (%)																					
	Total arisings of hazardous waste	0.473	0.485	0.497	0.510	0.522	0.535	0.546	0.557	0.568	0.579	0.591	0.600	0.609	0.618	0.627	0.637	0.643	0.650	0.656	0.663	0.669
	(2) Forecast sub-regional level growth rate of hazardous waste - per year (%)	3.3%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.0%	1.0%	1.0%	1.0%	1.0%
	Forecast sub regional level growth rate of hazardous waste - cumulative (%)																					
	Total arisings of hazardous waste	0.471	0.481	0.493	0.504	0.516	0.527	0.537	0.547	0.557	0.567	0.578	0.586	0.594	0.602	0.610	0.618	0.624	0.629	0.635	0.641	0.647
c&d	Total managed C&D in baseline year																					
	(3) Forecast regional-level growth rate of managed C&D - per year (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Forecast regional-level growth rate of managed C&D - cumulative (%)																					
	(3) Total managed of C&D for the sub-region	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801

(1) Figures from SEERA updated waste capacity model by ERM in 2005.
(2) Baseline year of hazardous waste arisings is 2003 from EA Hazardous Waste Interrogator. www.environment-agency.gov.uk/apps/wastesurvey2/. ERM has assumed that growth in hazardous waste is equal to C&I waste.
(3) These data represent managed C&D waste in the sub-region, including all intra-regional and inter-regional movements. Growth is assumed to be zero from the orginal MEL study and updated modeted by ERM in 2005.
NOTE: C&D waste is not included in arisings because this was taken from survey data by Symonds 2001 which gave values for managed C&D waste.

SE Region

Figure in blue represent data supplied by each sub-region for the new '2006 SEERA Capacity and Need Model'
Figures in orange represent managed waste that are used by the model to calculate results. These can be adjusted for different scenarios.

DATA_02: INTER REGIONAL MOVEMENTS OF MSW and C&I (Million Tonnes)		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw and c&i	Regional level imports of MSW and C&I waste into the SE region from London	1.76	1.716	1.672	1.628	1.584	1.54	1.454	1.368	1.282	1.196	1.11	1.064	1.018	0.972	0.926	0.88	0.86	0.84	0.82	0.8	0.78
	Proportion of regional MSW and C&I imports that go to the sub-region (%)	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
(1)	Total imports of MSW and C&I from London into sub-region sent direct to landfill	1.760	1.716	1.672	1.628	1.584	1.540	1.454	1.368	1.282	1.196	1.110	1.064	1.018	0.972	0.926	0.880	0.860	0.840	0.820	0.800	0.780
msw	Proportion of total MSW and C&I imports that are MSW (%) - REGIONAL GROWTH FORECAST	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	38%	38%	38%	38%
	Total imports of MSW into the sub-region from London - REGIONAL GROWTH FORECAST	0.657	0.640	0.624	0.608	0.591	0.575	0.543	0.511	0.478	0.446	0.414	0.397	0.380	0.363	0.346	0.328	0.322	0.315	0.309	0.302	0.296
	Proportion of total MSW and C&I imports that are MSW (%) - SUB-REGIONAL GROWTH FORECAST	38%	38%	38%	38%	38%	38%	38%	38%	38%	38%	38%	38%	38%	38%	38%	38%	38%	38%	38%	38%	38%
	Total imports of MSW into the sub-region from London - SUB-REGIONAL GROWTH FORECAST	0.660	0.645	0.629	0.612	0.596	0.579	0.547	0.515	0.482	0.449	0.417	0.400	0.383	0.366	0.348	0.331	0.325	0.318	0.311	0.304	0.298
c&i	Proportion of total MSW and C&I imports that are C&I (%) - REGIONAL GROWTH FORECAST	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	62%	62%	62%	62%
	Total imports of C&I into the sub-region from London - REGIONAL GROWTH FORECAST	1.103	1.076	1.048	1.020	0.993	0.965	0.911	0.857	0.804	0.750	0.696	0.667	0.638	0.609	0.580	0.552	0.538	0.525	0.511	0.498	0.484
	Proportion of total MSW and C&I imports that are C&I (%) - SUB-REGIONAL GROWTH FORECAST	62%	62%	62%	62%	62%	62%	62%	62%	62%	62%	62%	62%	62%	62%	62%	62%	62%	62%	62%	62%	62%
	Total imports of C&I into the sub-region from London - SUB-REGIONAL GROWTH FORECAST	1.100	1.071	1.043	1.016	0.988	0.961	0.907	0.853	0.800	0.747	0.693	0.664	0.635	0.606	0.578	0.549	0.535	0.522	0.509	0.496	0.482

(1) Intra-regional and inter-regional movements have been excluded for MSW and C&I waste due to self-sufficiency requirements under PPS10, except for inter-regional movements from London into the sub-region. Apportionment from Policy W3 in the Plan – downloadable from www.southeast-ra.gov.uk/southeastplan/plan/march_2006/core_document/009_seera_sep_d(
Note: Only a figure is available for total combined imports of MSW and C&I waste. ERM has assumed that imports of the seperate waste streams of MSW and C&I was split according to tonnage arisings of MSW and C&I in the sub-region.

DATA_03: MANAGED WASTE USED TO GENERATE RESULTS (Million Tonnes)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	4.766	4.886	5.008	5.133	5.261	5.393	5.501	5.611	5.723	5.837	5.954	6.043	6.134	6.226	6.319	6.414	6.510	6.608	6.707	6.808	6.910
msw - imports from london that are sent direct to non-hazardous landfill	0.721	0.703	0.685	0.667	0.649	0.631	0.596	0.560	0.525	0.490	0.455	0.436	0.417	0.398	0.379	0.360	0.353	0.346	0.339	0.331	0.324
c&i	8.006	8.206	8.411	8.621	8.837	9.058	9.239	9.423	9.612	9.804	10.000	10.150	10.302	10.457	10.614	10.773	10.881	10.990	11.100	11.211	11.323
c&I - imports from london that are sent direct to non-hazardous landfill	1.037	1.011	0.985	0.960	0.934	0.908	0.857	0.806	0.756	0.705	0.654	0.627	0.600	0.573	0.546	0.519	0.506	0.493	0.481	0.468	0.456
c&d	12.134	12.134	12.134	12.134	12.134	12.134	12.134	12.134	12.134	12.134	12.134	12.134	12.134	12.134	12.134	12.134	12.134	12.134	12.134	12.134	12.134
hazardous	0.473	0.485	0.497	0.510	0.522	0.535	0.546	0.557	0.568	0.579	0.591	0.600	0.609	0.618	0.627	0.637	0.643	0.650	0.656	0.663	0.669

DATA_04: TARGETS (% or Million Tonnes)		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	(1) landfill (Mt)	2.295	2.226	2.123	1.986	1.815	1.609	1.430	1.251	1.072	1.026	0.980	0.934	0.888	0.842	0.796	0.750	0.750	0.750	0.750	0.750	0.750
	recovered (%)	5	6.4	7.8	9.2	10.6	12	14.4	16.8	19.2	21.6	24	24.8	25.6	26.4	27.2	28	27.2	26.4	25.6	24.8	24
	recycled and composted (%)	30	32.0	34.0	36.0	38.0	40	42.0	44.0	46.0	48.0	50	51.0	52.0	53.0	54.0	55	56.0	57.0	58.0	59.0	60
c&i	recovered (%)	14	14.2	14.4	14.6	14.8	15	16.0	17.0	18.0	19.0	20	20.2	20.4	20.6	20.8	21	20.6	20.2	19.8	19.4	19
	recycled and composted (%)	40	42.0	44.0	46.0	48.0	50	51.0	52.0	53.0	54.0	55	56.0	57.0	58.0	59.0	60	61.0	62.0	63.0	64.0	65
c&d	recovered (%)	36	35.4	34.8	34.2	33.6	33	33.6	34.2	34.8	35.4	36	34.4	32.8	31.2	29.6	28	28.4	28.8	29.2	29.6	30
	recycled (%)	45	46.0	47.0	48.0	49.0	50	50.0	50.0	50.0	50.0	50	52.0	54.0	56.0	58.0	60	60.0	60.0	60.0	60.0	60
hazardous	landfill (%)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	recovered (%)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	recycled (%)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

(1) ERM has assumed that the LATS target allowance remains constant at the 2020 value for the years beyond 2020

DATA_05: WASTE STREAM TONNAGES TO MEET TARGETS (Million Tonnes)

DATA_02 calculates if there is a LATS shortfall or surplus in each year. If there is a LATS shortfall (ie insufficient allowance to landfill non-diverted waste) then the model assumes that this extra waste is recycled/composted and recovered at the same ratio as the regional targets for recycling/composting and recovery for that year. If there is a LATS surplus (ie more can be landfilled than is needed to meet regional diversion targets) then the model assumes that regional diversion targets are met (ie less waste is landfilled than LATS will allow). *'Red italic' text indicates where there is a shortfall.*

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	Total MSW to be recovered and recycled/composted to meet target	1.668	1.876	2.093	2.320	2.557	2.804	3.102	3.411	3.731	4.063	4.406	4.581	4.760	4.943	5.131	5.324	5.417	5.511	5.607	5.705	5.804
	Total MSW not-diverted by targets	3.098	3.010	2.914	2.813	2.704	2.589	2.398	2.199	1.992	1.775	1.548	1.462	1.374	1.283	1.188	1.090	1.094	1.097	1.100	1.103	1.106
	Percentage of MSW that is biodegradable (% by weight)	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68
	Total BMW not-diverted by targets	2.107	2.046	1.982	1.913	1.839	1.760	1.631	1.496	1.354	1.207	1.053	0.994	0.934	0.872	0.808	0.741	0.744	0.746	0.748	0.750	0.752
	LATS shortfall (how much extra is landfilled above LATS target)	-0.188	-0.180	-0.142	-0.073	0.024	0.151	0.201	0.245	0.283	0.181	0.073	0.061	0.047	0.030	0.012	-0.008	-0.006	-0.004	-0.002	0.000	0.002
	Ratio of 'recovered' to 'recycled/composted' for target (%)	14%	17%	19%	20%	22%	23%	26%	28%	29%	31%	32%	33%	33%	33%	33%	34%	33%	32%	31%	30%	29%
	Extra MSW 'recovery' needed due to LATS shortfall	0.000	0.000	0.000	0.000	*0.005*	*0.035*	*0.051*	*0.068*	*0.083*	*0.056*	*0.024*	*0.020*	*0.015*	*0.010*	*0.004*	0.000	0.000	0.000	0.000	*0.000*	*0.001*
	Extra MSW 'recycling/composting' needed due to LATS shortfall	0.000	0.000	0.000	0.000	*0.019*	*0.116*	*0.150*	*0.177*	*0.199*	*0.125*	*0.049*	*0.041*	*0.031*	*0.020*	*0.008*	0.000	0.000	0.000	0.000	*0.000*	*0.001*

The section below in DATA_03 shows the tonnages by waste to meet targets.

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	Recycling and composting target	1.430	1.563	1.703	1.848	2.018	2.274	2.460	2.646	2.832	2.927	3.026	3.123	3.221	3.320	3.421	3.528	3.646	3.767	3.890	4.017	4.147
	Recovery target	0.238	0.313	0.391	0.472	0.563	0.682	0.843	1.010	1.182	1.317	1.453	1.519	1.586	1.654	1.723	1.796	1.771	1.745	1.717	1.688	1.659
	Non-hazardous landfill	3.098	3.010	2.914	2.813	2.680	2.437	2.197	1.954	1.709	1.593	1.475	1.402	1.327	1.252	1.176	1.090	1.094	1.097	1.100	1.103	1.104
	CHECK COUNTER (should be zero)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
c&i	Recycling and composting target	3.202	3.446	3.701	3.966	4.242	4.529	4.712	4.900	5.094	5.294	5.500	5.684	5.872	6.065	6.262	6.464	6.637	6.814	6.993	7.175	7.360
	Recovery target	1.121	1.165	1.211	1.259	1.308	1.359	1.478	1.602	1.730	1.863	2.000	2.050	2.102	2.154	2.208	2.262	2.241	2.220	2.198	2.175	2.151
	Non-hazardous landfill	3.683	3.594	3.499	3.397	3.287	3.170	3.049	2.921	2.787	2.647	2.500	2.416	2.328	2.238	2.144	2.047	2.002	1.956	1.909	1.861	1.812
	CHECK COUNTER (should be zero)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
c&d	Recycling target	5.460	5.582	5.703	5.824	5.946	6.067	6.067	6.067	6.067	6.067	6.067	6.310	6.552	6.795	7.038	7.280	7.280	7.280	7.280	7.280	7.280
	Recovery target	4.368	4.295	4.223	4.150	4.077	4.004	4.077	4.150	4.223	4.295	4.368	4.174	3.980	3.786	3.592	3.397	3.446	3.495	3.543	3.592	3.640
	Inert landfill	2.305	2.257	2.208	2.160	2.111	2.063	1.990	1.917	1.844	1.772	1.699	1.650	1.602	1.553	1.505	1.456	1.408	1.359	1.310	1.262	1.213
	CHECK COUNTER (should be zero)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
hazardous	Hazardous waste	0.473	0.485	0.497	0.510	0.522	0.535	0.546	0.557	0.568	0.579	0.591	0.600	0.609	0.618	0.627	0.637	0.643	0.650	0.656	0.663	0.669

DATA_06: TOTAL WASTE TONNAGES TO MEET TARGETS (Million Tonnes)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
MSW and C&I recycling and composting target	4.632	5.010	5.403	5.814	6.260	6.802	7.172	7.546	7.926	8.221	8.526	8.807	9.093	9.385	9.683	9.992	10.283	10.580	10.883	11.191	11.507
C&D recycling target	5.460	5.582	5.703	5.824	5.946	6.067	6.067	6.067	6.067	6.067	6.067	6.310	6.552	6.795	7.038	7.280	7.280	7.280	7.280	7.280	7.280
MSW and C&I recovery target	1.359	1.478	1.602	1.731	1.871	2.041	2.322	2.612	2.912	3.180	3.453	3.569	3.687	3.808	3.931	4.058	4.012	3.964	3.915	3.863	3.810
C&D recovery target	4.368	4.295	4.223	4.150	4.077	4.004	4.077	4.150	4.223	4.295	4.368	4.174	3.980	3.786	3.592	3.397	3.446	3.495	3.543	3.592	3.640
Non-hazardous landfill	6.781	6.604	6.413	6.210	5.967	5.607	5.246	4.876	4.496	4.241	3.975	3.817	3.656	3.490	3.320	3.137	3.096	3.053	3.009	2.964	2.915
Inert landfill	2.305	2.257	2.208	2.160	2.111	2.063	1.990	1.917	1.844	1.772	1.699	1.650	1.602	1.553	1.505	1.456	1.408	1.359	1.310	1.262	1.213
Hazardous waste	0.473	0.485	0.497	0.510	0.522	0.535	0.546	0.557	0.568	0.579	0.591	0.600	0.609	0.618	0.627	0.637	0.643	0.650	0.656	0.663	0.669

SE Region

CHART_01

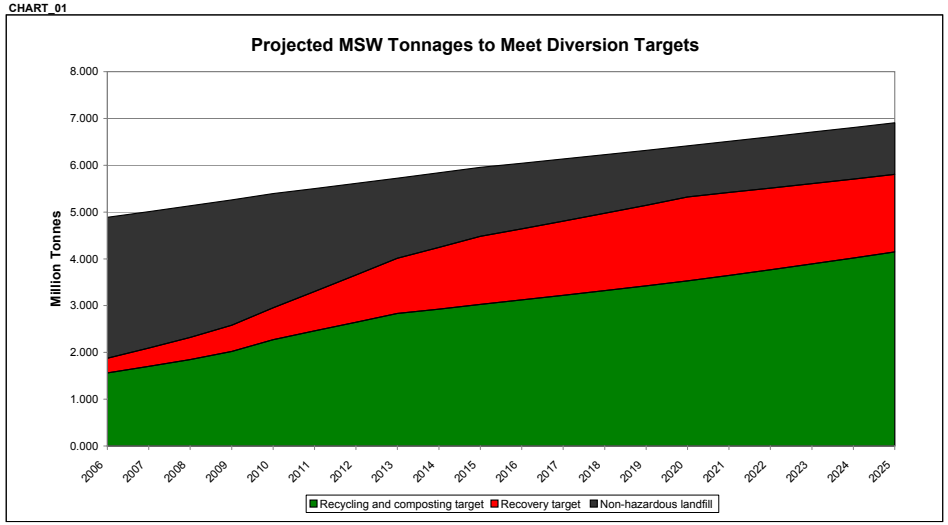


CHART_02

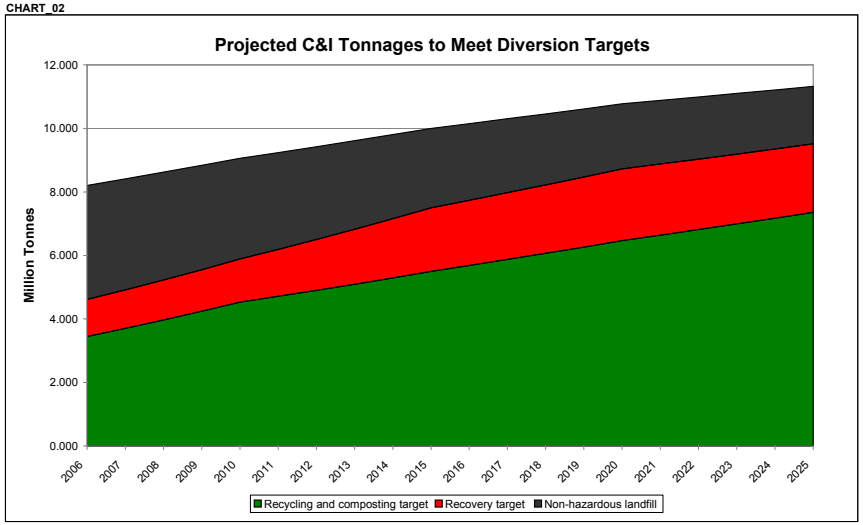


CHART_03

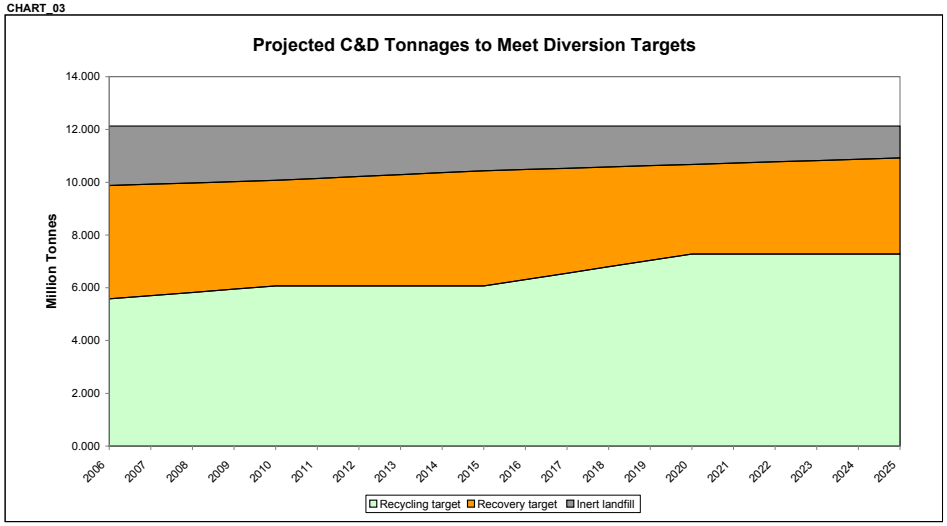
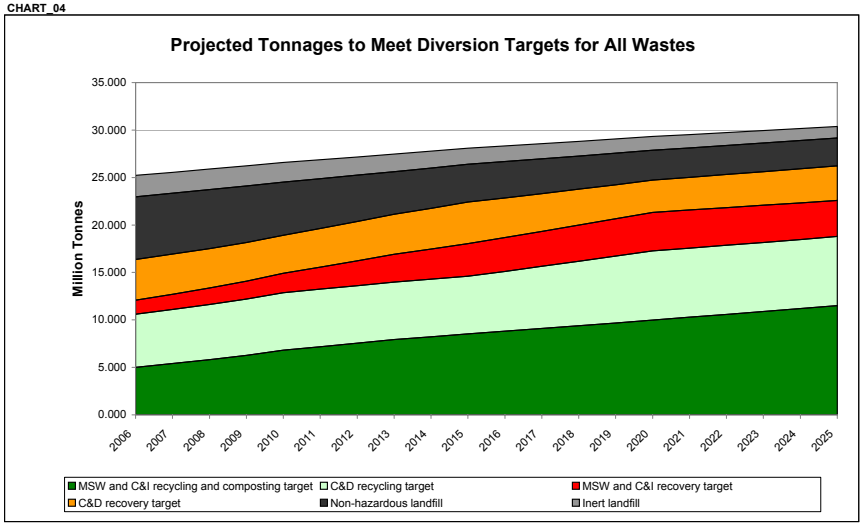
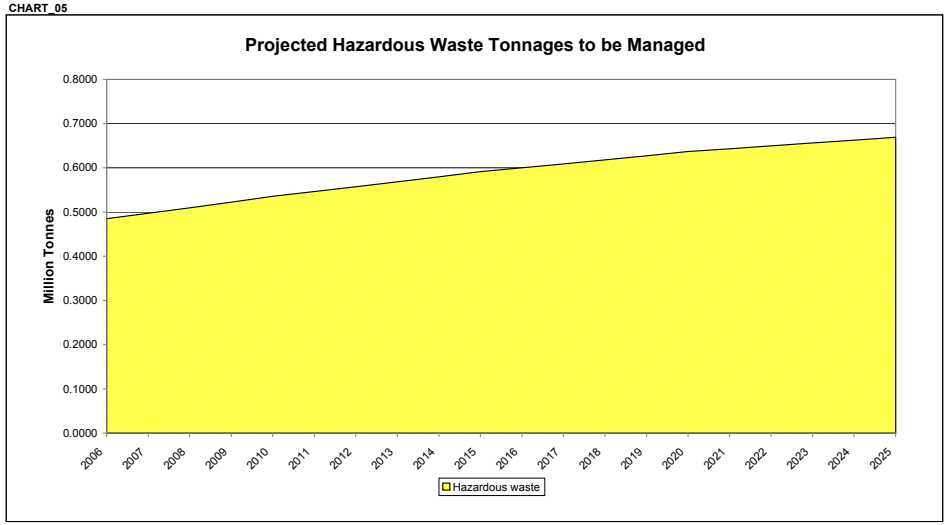


CHART_04



SE Region

CHART_05



DATA_07: EXISTING/PLANNED CAPACITY FOR RECYCLING, RECOVERY AND LANDFILLING AND TOTAL WASTE TONNAGES TO EACH DISPOSAL ROUTE (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
MSW and C&I recovery																					
MSW and C&I incineration (non-specialist)	0.490	0.490	0.490	0.490	0.490	0.490	0.490	0.490	0.490	0.490	0.490	0.490	0.490	0.490	0.490	0.490	0.490	0.490	0.490	0.490	0.490
MSW and C&I treatment	2.587	2.587	2.587	2.587	2.587	2.587	2.587	2.587	2.587	2.587	2.587	2.587	2.587	2.587	2.587	2.587	2.587	2.587	2.587	2.587	2.587
Total existing/planned MSW and C&I recovery capacity	3.077	3.077	3.077	3.077	3.077	3.077	3.077	3.077	3.077	3.077	3.077	3.077	3.077	3.077	3.077	3.077	3.077	3.077	3.077	3.077	3.077
Total MSW waste required to meet target	0.238	0.313	0.391	0.472	0.563	0.682	0.843	1.010	1.182	1.317	1.453	1.519	1.586	1.654	1.723	1.796	1.771	1.745	1.717	1.688	1.659
Total C&I waste required to meet target	1.121	1.165	1.211	1.259	1.308	1.359	1.478	1.602	1.730	1.863	2.000	2.050	2.102	2.154	2.208	2.262	2.241	2.220	2.198	2.175	2.151
Surplus/deficit capacity	1.718	1.599	1.475	1.346	1.206	1.036	0.755	0.464	0.164	-0.103	-0.376	-0.492	-0.611	-0.731	-0.854	-0.982	-0.936	-0.888	-0.838	-0.787	-0.734
MSW and C&I recycling and composting																					
MSW and C&I recycling	7.140	7.140	7.140	7.140	7.140	7.140	7.140	7.140	7.140	7.140	7.140	7.140	7.140	7.140	7.140	7.140	7.140	7.140	7.140	7.140	7.140
MSW and C&I transfer	11.534	11.534	11.534	11.534	11.534	11.534	11.534	11.534	11.534	11.534	11.534	11.534	11.534	11.534	11.534	11.534	11.534	11.534	11.534	11.534	11.534
Total existing/planned MSW and C&I composting capacity	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476	0.476
(1) Total existing/planned MSW and C&I recycling and composting capacity (Baseline: 20% of transfer capacity delivers recycling)	9.923	9.923	9.923	9.923	9.923	9.923	9.923	9.923	9.923	9.923	9.923	9.923	9.923	9.923	9.923	9.923	9.923	9.923	9.923	9.923	9.923
(2) Total existing/planned MSW and C&I recycling and composting capacity (Sensitivity: 5% of transfer capacity delivers recycling)	8.193	8.193	8.193	8.193	8.193	8.193	8.193	8.193	8.193	8.193	8.193	8.193	8.193	8.193	8.193	8.193	8.193	8.193	8.193	8.193	8.193
Total MSW waste required to meet recycling and composting target	1.430	1.563	1.703	1.848	2.018	2.274	2.460	2.646	2.832	2.927	3.026	3.123	3.221	3.320	3.421	3.528	3.646	3.767	3.890	4.017	4.147
Total C&I waste required to meet recycling and composting target	3.202	3.446	3.701	3.966	4.242	4.529	4.712	4.900	5.094	5.294	5.500	5.684	5.872	6.065	6.262	6.464	6.637	6.814	6.993	7.175	7.360
Surplus/deficit capacity (Baseline: 20% of transfer capacity delivers recycling)	5.291	4.913	4.520	4.109	3.663	3.121	2.751	2.377	1.997	1.702	1.397	1.116	0.830	0.538	0.240	-0.069	-0.360	-0.657	-0.960	-1.268	-1.584
Surplus/deficit capacity (Sensitivity: 5% of transfer capacity delivers recycling)	3.561	3.183	2.790	2.379	1.933	1.391	1.021	0.647	0.267	-0.028	-0.334	-0.614	-0.900	-1.192	-1.490	-1.799	-2.090	-2.387	-2.690	-2.999	-3.314
C&D recycling																					
Total existing/planned C&D recycling capacity	0.309	0.309	0.309	0.309	0.309	0.309	0.309	0.309	0.309	0.309	0.309	0.309	0.309	0.309	0.309	0.309	0.309	0.309	0.309	0.309	0.309
Total waste required to meet C&D recycling target	5.460	5.582	5.703	5.824	5.946	6.067	6.067	6.067	6.067	6.067	6.067	6.310	6.552	6.795	7.038	7.280	7.280	7.280	7.280	7.280	7.280
Surplus/deficit capacity	-5.151	-5.273	-5.394	-5.515	-5.637	-5.758	-5.758	-5.758	-5.758	-5.758	-5.758	-6.001	-6.243	-6.486	-6.729	-6.971	-6.971	-6.971	-6.971	-6.971	-6.971
C&D recovery																					
(3) REGIONAL total existing/planned C&D recovery capacity	1.877	1.794	1.710	1.627	1.544	1.460	1.439	1.418	1.398	1.377	1.356	1.325	1.293	1.262	1.231	1.199	1.220	1.241	1.262	1.283	1.304
Sub-regional total waste required to meet C&D recovery target	4.368	4.295	4.223	4.150	4.077	4.004	4.077	4.150	4.223	4.295	4.368	4.174	3.980	3.786	3.592	3.397	3.446	3.495	3.543	3.592	3.640
Surplus/deficit capacity	-2.491	-2.502	-2.512	-2.523	-2.533	-2.544	-2.638	-2.731	-2.825	-2.919	-3.012	-2.849	-2.687	-2.524	-2.361	-2.198	-2.226	-2.253	-2.281	-2.309	-2.336
Hazardous waste recycling																					
Total existing/planned hazardous waste recycling capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total hazardous waste to be recycled	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Surplus/deficit capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hazardous waste recovery																					
Total existing/planned hazardous waste recovery capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total hazardous waste to be recovered	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Surplus/deficit capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Non-hazardous landfill																					
Available non-hazardous landfill capacity (excluding residues from MSW and C&I recovery)		62.728	53.101	43.636	34.346	25.263	16.490	8.109	0.128	-7.445	-14.720	-21.690	-28.522	-35.214	-41.762	-48.163	-54.407	-60.632	-66.839	-73.028	-79.198
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'Incineration (non-specialist)'		62.672	52.822	43.118	33.568	24.204	15.125	6.396	-1.977	-9.986	-17.738	-25.226	-32.594	-39.839	-46.958	-53.949	-60.801	-67.628	-74.430	-81.206	-87.955
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'MBT'		62.506	52.007	41.597	31.286	21.099	11.122	1.371	-8.151	-17.442	-26.593	-35.600	-44.538	-53.405	-62.200	-70.920	-79.558	-88.151	-96.697	-105.195	-113.644
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'RDF'		62.683	52.878	43.221	33.723	24.416	15.398	6.739	-1.556	-9.478	-17.135	-24.519	-31.779	-38.914	-45.919	-52.792	-59.522	-66.229	-72.912	-79.571	-86.204
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'treatment'		62.559	52.266	42.081	32.012	22.087	12.396	2.970	-6.186	-15.069	-23.776	-32.299	-40.737	-49.089	-57.350	-65.520	-73.590	-81.621	-89.612	-97.562	-105.471
Total MSW and C&I waste sent direct to non-hazardous landfill		6.604	6.413	6.210	5.967	5.607	5.246	4.876	4.496	4.241	3.975	3.817	3.656	3.490	3.320	3.137	3.096	3.053	3.009	2.964	2.915
Inert landfill																					
Available inert landfill capacity		70.832	68.576	66.367	64.207	62.096	60.033	58.043	56.126	54.282	52.510	50.812	49.162	47.560	46.007	44.502	43.046	41.639	40.280	38.969	37.707
Available inert landfill capacity assuming all MSW and C&I recovery by 'Incineration (non-specialist)'		70.776	68.297	65.849	63.429	61.038	58.669	56.331	54.022	51.740	49.492	47.275	45.090	42.935	40.811	38.716	36.652	34.642	32.689	30.791	28.950
Total C&D waste sent direct to inert landfill	2.305	2.257	2.208	2.160	2.111	2.063	1.990	1.917	1.844	1.772	1.699	1.650	1.602	1.553	1.505	1.456	1.408	1.359	1.310	1.262	1.213
Hazardous landfill																					
Available hazardous landfill capacity		3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309
Total hazardous waste sent direct to hazardous landfill		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Other																					
Metal/ELV facility	3.720	3.720	3.720	3.720	3.720	3.720	3.720	3.720	3.720	3.720	3.720	3.720	3.720	3.720	3.720	3.720	3.720	3.720	3.720	3.720	3.720
Ignored	7.674	7.674	7.674	7.674	7.674	7.674	7.674	7.674	7.674	7.674	7.674	7.674	7.674	7.674	7.674	7.674	7.674	7.674	7.674	7.674	7.674
Closed	1.518	1.518	1.518	1.518	1.518	1.518	1.518	1.518	1.518	1.518	1.518	1.518	1.518	1.518	1.518	1.518	1.518	1.518	1.518	1.518	1.518

(1) ERM has assumed that 20% of the total 'transfer' capacity will deliver recycling capacity
(2) ERM has assumed that 5% of the total 'transfer' capacity will deliver recycling capacity
(3) Data for C&D recovery for landfill cover for the SE Region were sourced from the original MEL model, which sourced the data from Symonds (2001)
Note: The capacity model developed by ERM for this study does not include the capacity provided in the 'Others' group in its calculations because these are not relevant to the management of MSW, C&I and C&D. These data are included for the purposes of completeness.

SE Region

DATA_08: RESIDUE RATES (%)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Recovery residues (% by weight)																					
MSW and C&I incineration (non-specialist) - bottom ash	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
MSW and C&I incineration (non-specialist) - fly ash	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
MSW and C&I to MBT	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59
MSW and C&I to RDF	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
MSW and C&I treatment - non-hazardous	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45
MSW and C&I treatment - hazardous	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Hazardous waste recovery	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Recycling residues (% by weight)																					
MSW and C&I recycling	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
MSW and C&I transfer	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
MSW and C&I composting	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
C&D recycling	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Hazardous waste recycling	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Other																					
Metal/ELV facility	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Ignored	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Closed	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Note: All residues are calculated on the amount of waste arising not on the maount of capacity available. This is complaince with the self-sufficiency requirements of PPS10.

DATA_09: TOTAL RESIDUE (Million Tonnes)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Recovery residues (of waste managed):																					
MSW and C&I incineration (non-specialist) - bottom ash	0.408	0.443	0.481	0.519	0.561	0.612	0.696	0.784	0.874	0.954	1.036	1.071	1.106	1.142	1.179	1.217	1.204	1.189	1.174	1.159	1.143
MSW and C&I incineration (non-specialist) - fly ash	0.041	0.044	0.048	0.052	0.056	0.061	0.070	0.078	0.087	0.095	0.104	0.107	0.111	0.114	0.118	0.122	0.120	0.119	0.117	0.116	0.114
MSW and C&I to MBT	0.802	0.872	0.945	1.021	1.104	1.204	1.370	1.541	1.718	1.876	2.037	2.106	2.176	2.247	2.319	2.394	2.367	2.339	2.310	2.279	2.248
MSW and C&I to RDF	0.163	0.177	0.192	0.208	0.224	0.245	0.279	0.313	0.349	0.382	0.414	0.428	0.442	0.457	0.472	0.487	0.481	0.476	0.470	0.464	0.457
MSW and C&I treatment - non-hazardous	0.612	0.665	0.721	0.779	0.842	0.918	1.045	1.176	1.310	1.431	1.554	1.606	1.659	1.714	1.769	1.826	1.806	1.784	1.762	1.738	1.715
MSW and C&I treatment - hazardous	0.068	0.074	0.080	0.087	0.094	0.102	0.116	0.131	0.146	0.159	0.173	0.178	0.184	0.190	0.197	0.203	0.201	0.198	0.196	0.193	0.191
Hazardous waste recovery	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Recycling residues (of waste managed):																					
MSW and C&I recycling and composting	0.695	0.751	0.811	0.872	0.939	1.020	1.076	1.132	1.189	1.233	1.279	1.321	1.364	1.408	1.452	1.499	1.542	1.587	1.632	1.679	1.726
C&D recycling	0.546	0.558	0.570	0.582	0.595	0.607	0.607	0.607	0.607	0.607	0.607	0.631	0.655	0.679	0.704	0.728	0.728	0.728	0.728	0.728	0.728
Hazardous waste recycling	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Note: All residues are calculated on the amount of waste arising not on the maount of capacity available. This is complaince with the self-sufficiency requirements of PPS10.

DATA_10: TOTAL MSW AND C&I RESIDUE FROM RECYCLING SENT TO NON-HAZARDOUS LANDFILL (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Total MSW and C&I recycling and composting residue sent to non-hazardous landfill	1.241	1.310	1.381	1.454	1.534	1.627	1.682	1.739	1.796	1.840	1.886	1.952	2.019	2.087	2.156	2.227	2.270	2.315	2.360	2.407	2.454

DATA_11: TOTAL MSW AND C&I RESIDUE FROM RECOVERY SENT TO NON-HAZARDOUS LANDFILL AND C&D RECYCLING (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
SCENARIO 1 - Assumes all recovery is by 'Non-specialist incineration' (based on total recovery capacity)																					
(1) Total MSW and C&I residue sent to non-hazardous landfill assuming all MSW and C&I recovery by 'Non-specialist incineration'	0.204	0.222	0.240	0.260	0.281	0.306	0.348	0.392	0.437	0.477	0.518	0.535	0.553	0.571	0.590	0.609	0.602	0.595	0.587	0.579	0.572
(1) Total MSW and C&I residue sent to inert landfill assuming all MSW and C&I recovery by 'Non-specialist incineration'	0.204	0.222	0.240	0.260	0.281	0.306	0.348	0.392	0.437	0.477	0.518	0.535	0.553	0.571	0.590	0.609	0.602	0.595	0.587	0.579	0.572
SCENARIO 2 - Assumes all recovery is by 'MBT' (based on total recovery capacity)																					
Total MSW and C&I residue sent to non-hazardous landfill	0.802	0.872	0.945	1.021	1.104	1.204	1.370	1.541	1.718	1.876	2.037	2.106	2.176	2.247	2.319	2.394	2.367	2.339	2.310	2.279	2.248
SCENARIO 3 - Assumes all recovery is by 'RDF' (based on total recovery capacity)																					
Total MSW and C&I residue sent to non-hazardous landfill	0.163	0.177	0.192	0.208	0.224	0.245	0.279	0.313	0.349	0.382	0.414	0.428	0.442	0.457	0.472	0.487	0.481	0.476	0.470	0.464	0.457
SCENARIO 4 - Assumes all recovery is by 'treatment' (based on total recovery capacity)																					
Total MSW and C&I residue sent to non-hazardous landfill	0.612	0.665	0.721	0.779	0.842	0.918	1.045	1.176	1.310	1.431	1.554	1.606	1.659	1.714	1.769	1.826	1.806	1.784	1.762	1.738	1.715

(1) It was assumed that 50% of residue from 'non-specialist incineration' is sent to non-hazardous landfill and 50% is sent to inert landfill. In the original model assumptions developed MEL 50% was assumed to go to C&D recycling, rather than to inert landfi

DATA_12: TONNAGES OF C&D REUSED ON NON-HAZARDOUS AND INERT LANDFILL (Million Tonnes)

(1) C&D reused on landfill sites	39 %
(1) C&D reused on exempt sites	61 %
(1) C&D reused on landfill sites sent to 'non-haz landfill'	30 %
(1) C&D reused on landfill sites sent to 'inert landfill'	70 %

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
c&d	Total C&D reused on non-hazardous landfill	0.508	0.500	0.491	0.483	0.474	0.466	0.474	0.483	0.491	0.500	0.508	0.486	0.463	0.441	0.418	0.395	0.401	0.407	0.412	0.418	0.424
	Total reused C&D on inert landfill	1.186	1.166	1.147	1.127	1.107	1.087	1.107	1.127	1.147	1.166	1.186	1.133	1.081	1.028	0.975	0.923	0.936	0.949	0.962	0.975	0.988

(1) C&D reuse rates based on original model assumptions developed MEL
NOTE: C&D reuse on inert and non-hazardous landfill is not included within the charts because it has been assumed that data supplied by each sub-region has accounted for C&D reuse as an engineering material.

DATA_13: TOTAL MSW AND C&I RESIDUE FROM RECYCLING SENT TO HAZARDOUS LANDFILL (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Total MSW and C&I recycling and composting residue sent to hazardous landfill	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

DATA_14: TOTAL MSW AND C&I RESIDUE FROM RECOVERY SENT TO HAZARDOUS LANDFILL (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
SCENARIO 1 - Assumes all recovery is by 'Non-specialist incineration' (based on total recovery capacity)																					
Total MSW and C&I residue sent to hazardous landfill assuming all MSW and C&I recovery by 'Non-specialist incineration'	0.041	0.044	0.048	0.052	0.056	0.061	0.070	0.078	0.087	0.095	0.104	0.107	0.111	0.114	0.118	0.122	0.120	0.119	0.117	0.116	0.114
SCENARIO 2 - Assumes all recovery is by 'MBT' (based on total recovery capacity)																					
Total MSW and C&I residue sent to hazardous landfill	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SCENARIO 3 - Assumes all recovery is by 'RDF' (based on total recovery capacity)																					
Total MSW and C&I residue sent to hazardous landfill	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SCENARIO 4 - Assumes all recovery is by 'treatment' (based on total recovery capacity)																					
Total MSW and C&I residue sent to hazardous landfill	0.068	0.074	0.080	0.087	0.094	0.102	0.116	0.131	0.146	0.159	0.173	0.178	0.184	0.190	0.197	0.203	0.201	0.198	0.196	0.193	0.191

NOTE: This element of the model is redundant. There is currently no hazardous waste capacity figures to generate a chart of managed waste versus available capacity.

DATA_15: TOTAL HAZARDOUS WASTE RESIDUE FROM RECOVERY AND RECYCLING SENT TO HAZARDOUS LANDFILL (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Total hazardous waste recycling and recovery residue sent to hazardous landfill	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

SE Region

CHART_06

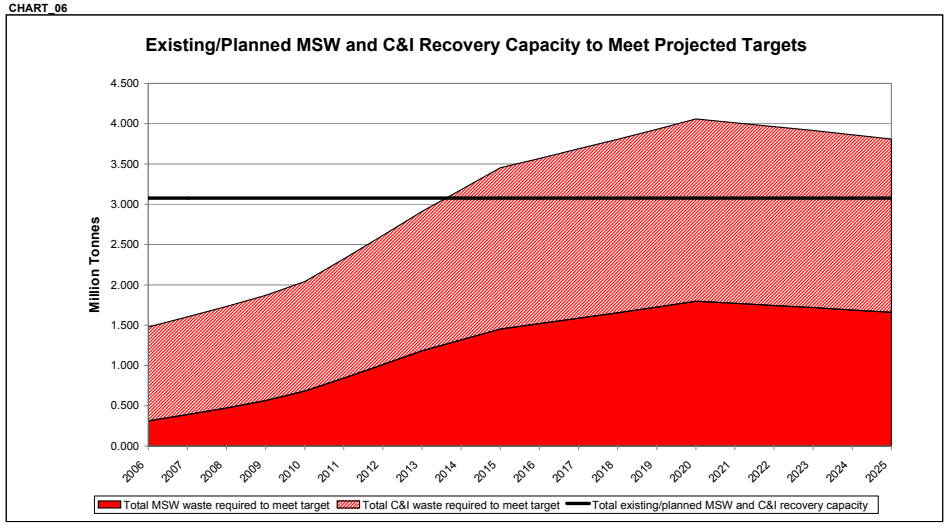


CHART_07

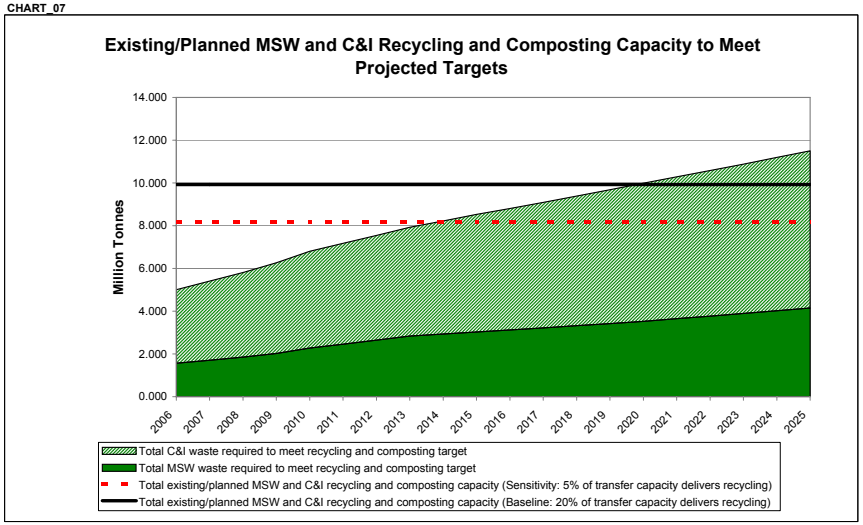
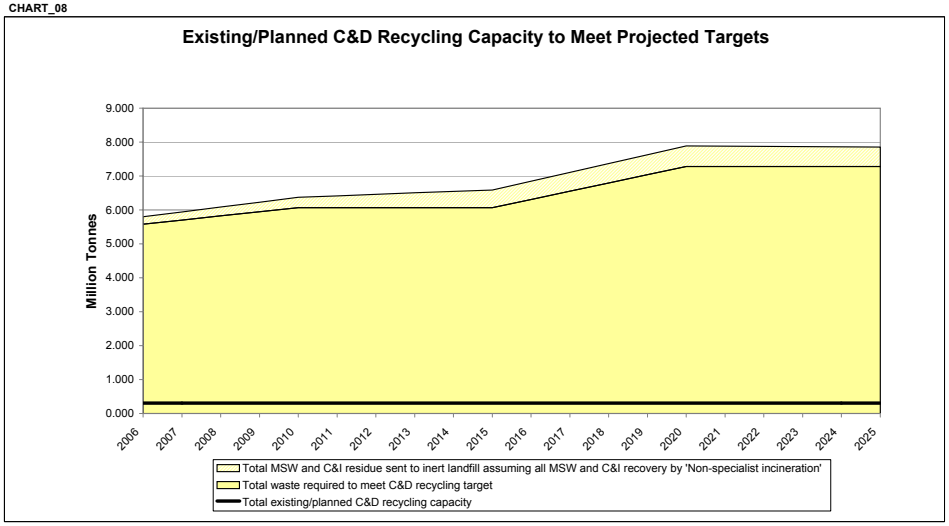


CHART_08



SE Region

CHART_09

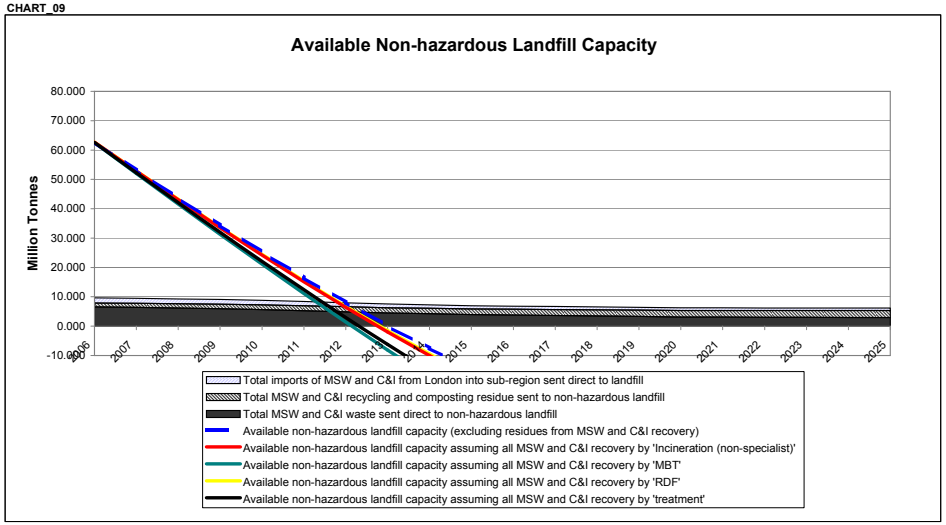
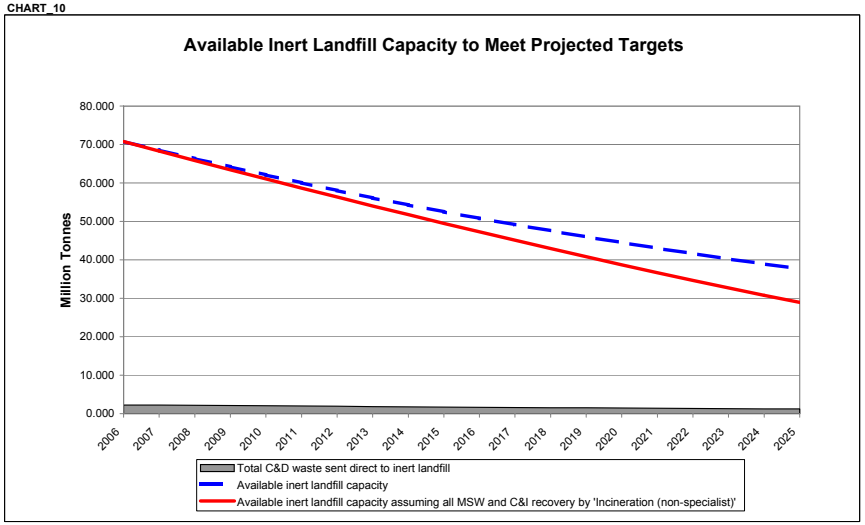
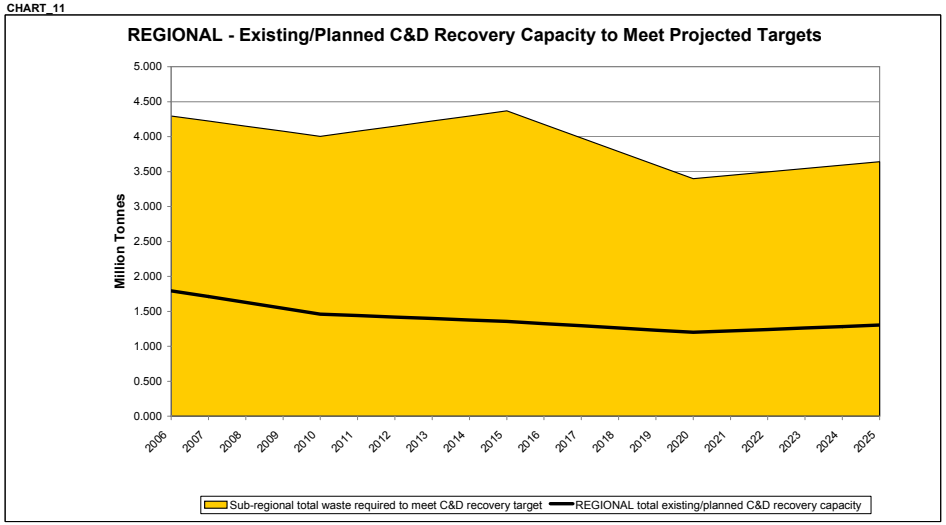


CHART_10



NOTE: The graph assumes that the baseline capacity for non-hazardous landfill has accounted for C&D reuse as a landfill engineering material.

CHART_11



Berkshire

SUMMARY DATA AND RESULTS FOR BERKSHIRE

MANAGED WASTE USED TO GENERATE RESULTS (Million Tonnes)	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	0.475	0.487	0.499	0.512	0.525	0.535	0.546	0.557	0.568	0.579	0.588	0.597	0.606	0.615	0.624	0.633	0.643	0.652	0.662	0.672
msw - imports from london that are sent direct to non-hazardous landfill	0.055	0.054	0.052	0.051	0.049	0.047	0.044	0.041	0.038	0.036	0.034	0.033	0.031	0.030	0.028	0.028	0.027	0.027	0.026	0.025
c&i	0.784	0.804	0.824	0.844	0.865	0.883	0.900	0.918	0.937	0.956	0.970	0.984	0.999	1.014	1.029	1.040	1.050	1.061	1.071	1.082
c&i - imports from london that are sent direct to non-hazardous landfill	0.091	0.088	0.086	0.084	0.082	0.077	0.072	0.068	0.063	0.059	0.056	0.054	0.051	0.049	0.047	0.045	0.044	0.043	0.042	0.041
c&d	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801
hazardous	0.039	0.040	0.041	0.042	0.043	0.044	0.045	0.046	0.047	0.048	0.048	0.049	0.050	0.051	0.051	0.052	0.052	0.053	0.053	0.054

WASTE STREAM TONNAGES TO MEET TARGETS (Million Tonnes)		2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	LATS shortfall (how much extra is landfilled above LATS target)	-0.072	-0.064	-0.052	-0.036	-0.015	-0.007	0.001	0.008	-0.001	-0.011	-0.011	-0.012	-0.013	-0.014	-0.015	-0.014	-0.014	-0.014	-0.014	-0.014
	Recycling and composting target	0.152	0.166	0.180	0.194	0.210	0.225	0.241	0.261	0.273	0.290	0.300	0.310	0.321	0.332	0.343	0.355	0.366	0.378	0.391	0.403
	Recovery target	0.030	0.038	0.046	0.054	0.063	0.077	0.092	0.109	0.123	0.139	0.146	0.153	0.160	0.167	0.175	0.172	0.170	0.167	0.164	0.161
	Non-hazardous landfill	0.293	0.283	0.274	0.263	0.252	0.233	0.213	0.186	0.173	0.151	0.142	0.134	0.125	0.116	0.106	0.106	0.107	0.107	0.107	0.108
c&i	Recycling and composting target	0.329	0.354	0.379	0.405	0.433	0.450	0.468	0.487	0.506	0.526	0.543	0.561	0.580	0.598	0.618	0.634	0.651	0.668	0.686	0.703
	Recovery target	0.111	0.116	0.120	0.125	0.130	0.141	0.153	0.165	0.178	0.191	0.196	0.201	0.206	0.211	0.216	0.214	0.212	0.210	0.208	0.206
	Non-hazardous landfill	0.343	0.334	0.325	0.314	0.303	0.291	0.279	0.266	0.253	0.239	0.231	0.222	0.214	0.205	0.196	0.191	0.187	0.182	0.178	0.173
c&d	Recycling target	0.829	0.847	0.865	0.883	0.901	0.901	0.901	0.901	0.901	0.901	0.937	0.973	1.009	1.045	1.081	1.081	1.081	1.081	1.081	1.081
	Recovery target	0.638	0.627	0.616	0.605	0.594	0.605	0.616	0.627	0.638	0.649	0.620	0.591	0.562	0.533	0.504	0.512	0.519	0.526	0.533	0.540
	Inert landfill	0.335	0.328	0.321	0.313	0.306	0.295	0.285	0.274	0.263	0.252	0.245	0.238	0.231	0.223	0.216	0.209	0.202	0.195	0.187	0.180
hazardous	Hazardous waste	0.039	0.040	0.041	0.042	0.043	0.044	0.045	0.046	0.047	0.048	0.048	0.049	0.050	0.051	0.051	0.052	0.052	0.053	0.053	0.054

Note: If there is a LATS shortfall, denoted by a positive number, (ie insufficient allowance to landfill non-diverted waste) then the model assumes that this extra waste is recycled/composted and recovered at the same ratio as the regional targets for recycling/composting and recovery for that year.

EXISTING/PLANNED CAPACITY FOR RECYCLING, RECOVERY AND LANDFILLING AND TOTAL WASTE TONNAGES TO EACH DISPOSAL ROUTE (Million Tonnes)		2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
MSW and C&I recovery																					
	Total existing/planned MSW and C&I recovery capacity	0.220	0.220	0.220	0.220	0.220	0.220	0.220	0.220	0.220	0.220	0.220	0.220	0.220	0.220	0.220	0.220	0.220	0.220	0.220	0.220
	Surplus/deficit capacity	0.078	0.066	0.054	0.041	0.027	0.002	-0.025	-0.054	-0.081	-0.110	-0.122	-0.134	-0.146	-0.158	-0.171	-0.166	-0.162	-0.157	-0.152	-0.147
MSW and C&I recycling and composting																					
	Total existing/planned MSW and C&I recycling and composting capacity (Baseline: 20% of transfer capacity delivers recycling)	0.840	0.840	0.840	0.840	0.840	0.840	0.840	0.840	0.840	0.840	0.840	0.840	0.840	0.840	0.840	0.840	0.840	0.840	0.840	0.840
	Total existing/planned MSW and C&I recycling and composting capacity (Sensitivity: 5% of transfer capacity delivers recycling)	0.687	0.687	0.687	0.687	0.687	0.687	0.687	0.687	0.687	0.687	0.687	0.687	0.687	0.687	0.687	0.687	0.687	0.687	0.687	0.687
	Surplus/deficit capacity (Baseline: 20% of transfer capacity delivers recycling)	0.358	0.321	0.281	0.240	0.197	0.165	0.131	0.091	0.061	0.025	-0.003	-0.032	-0.061	-0.091	-0.121	-0.149	-0.178	-0.207	-0.236	-0.267
	Surplus/deficit capacity (Sensitivity: 5% of transfer capacity delivers recycling)	0.206	0.168	0.128	0.087	0.044	0.012	-0.022	-0.061	-0.091	-0.128	-0.156	-0.184	-0.214	-0.243	-0.274	-0.302	-0.330	-0.360	-0.389	-0.420
C&D recycling																					
	Total existing/planned C&D recycling capacity	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064
	Surplus/deficit capacity	-0.764	-0.782	-0.800	-0.818	-0.836	-0.836	-0.836	-0.836	-0.836	-0.836	-0.872	-0.908	-0.944	-0.980	-1.016	-1.016	-1.016	-1.016	-1.016	-1.016
C&D recovery																					
	REGIONAL total existing/planned C&D recovery capacity	1.794	1.710	1.627	1.544	1.460	1.439	1.418	1.398	1.377	1.356	1.325	1.293	1.262	1.231	1.199	1.220	1.241	1.262	1.283	1.304
	Surplus/deficit capacity	1.156	1.083	1.011	0.938	0.866	0.834	0.802	0.771	0.739	0.707	0.705	0.702	0.700	0.697	0.695	0.709	0.722	0.736	0.750	0.763
Hazardous waste recycling																					
	Total existing/planned hazardous waste recycling capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Surplus/deficit capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hazardous waste recovery																					
	Total existing/planned hazardous waste recovery capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Surplus/deficit capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Non-hazardous landfill																					
	Available non-hazardous landfill capacity (excluding residues from MSW and C&I recovery)	0.055	-0.882	-1.805	-2.711	-3.601	-4.473	-5.313	-6.118	-6.882	-7.616	-8.312	-8.996	-9.666	-10.323	-10.967	-11.595	-12.222	-12.848	-13.472	-14.095
	Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'Incineration (non-specialist)'	0.055	-0.903	-1.849	-2.781	-3.698	-4.599	-5.471	-6.313	-7.117	-7.897	-8.642	-9.377	-10.101	-10.813	-11.513	-12.200	-12.885	-13.568	-14.249	-14.927
	Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'MBT'	0.055	-0.966	-1.979	-2.984	-3.980	-4.965	-5.934	-6.883	-7.809	-8.720	-9.611	-10.496	-11.376	-12.249	-13.115	-13.974	-14.829	-15.680	-16.527	-17.369
	Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'RDF'	0.055	-0.899	-1.840	-2.767	-3.678	-4.574	-5.439	-6.274	-7.070	-7.840	-8.576	-9.301	-10.014	-10.715	-11.403	-12.079	-12.753	-13.424	-14.094	-14.761
	Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'treatment'	0.055	-0.946	-1.938	-2.919	-3.890	-4.849	-5.786	-6.702	-7.589	-8.458	-9.303	-10.140	-10.970	-11.792	-12.605	-13.410	-14.211	-15.008	-15.802	-16.592
Inert landfill																					
	Available inert landfill capacity	0.091	-0.244	-0.572	-0.893	-1.206	-1.513	-1.808	-2.093	-2.366	-2.629	-2.882	-3.127	-3.364	-3.595	-3.818	-4.035	-4.244	-4.445	-4.640	-4.827
	Available inert landfill capacity assuming all MSW and C&I recovery by 'Incineration (non-specialist)'	0.091	-0.266	-0.617	-0.962	-1.302	-1.638	-1.966	-2.287	-2.602	-2.910	-3.212	-3.508	-3.799	-4.085	-4.365	-4.639	-4.906	-5.165	-5.417	-5.660
Hazardous landfill																					
	Available hazardous landfill capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Note: The model does not contain data for the management of hazardous waste.																				

DATA_01: ARISINGS AND GROWTH RATES OF MSW, C&I AND HAZARDOUS WASTE (Million Tonnes)		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	Arisings of MSW in baseline year																					
	(1) Forecast regional level growth rate of MSW - per year (%)	3.0%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%
	(1) Forecast regional level growth rate of MSW - cumulative (%)	106%	109%	111%	114%	117%	120%	122%	125%	127%	130%	133%	135%	137%	139%	141%	143%	145%	147%	149%	152%	154%
	Total arisings of MSW using regional growth forecasts	0.464	0.475	0.487	0.499	0.512	0.525	0.535	0.546	0.557	0.568	0.579	0.588	0.597	0.606	0.615	0.624	0.633	0.643	0.652	0.662	0.672
	(1) Forecast sub-regional growth rate of MSW - per year (%)	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%
	(1) Forecast sub-regional level growth rate of MSW - cumulative (%)	104%	106%	108%	110%	113%	115%	117%	120%	122%	124%	127%	129%	131%	133%	135%	137%	139%	141%	143%	145%	147%
	Total arisings of MSW using sub-regional growth forecasts	0.455	0.464	0.473	0.482	0.492	0.502	0.512	0.522	0.533	0.543	0.554	0.563	0.571	0.580	0.588	0.597	0.606	0.615	0.624	0.634	0.643
c&i	Arisings of C&I in baseline year																					
	(1) Forecast regional level growth rate of C&I - per year (%)	3.3%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.0%	1.0%	1.0%	1.0%	1.0%
	(1) Forecast regional level growth rate of C&I - cumulative (%)	117%	120%	123%	126%	130%	133%	136%	138%	141%	144%	147%	149%	151%	153%	156%	158%	160%	161%	163%	164%	166%
	Total arisings of C&I using regional growth forecasts	0.765	0.784	0.804	0.824	0.844	0.865	0.883	0.900	0.918	0.937	0.956	0.970	0.984	0.999	1.014	1.029	1.040	1.050	1.061	1.071	1.082
	(1) Forecast sub-regional level growth rate of C&I - per year (%)	3.3%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.0%	1.0%	1.0%	1.0%	1.0%
	(1) Forecast sub-regional level growth rate of C&I - cumulative (%)	117%	120%	123%	126%	130%	133%	136%	138%	141%	144%	147%	149%	151%	153%	156%	158%	160%	161%	163%	164%	166%
	Total arisings of C&I using sub-regional growth forecasts	0.765	0.784	0.804	0.824	0.844	0.865	0.883	0.900	0.918	0.937	0.956	0.970	0.984	0.999	1.014	1.029	1.040	1.050	1.061	1.071	1.082
hazardous	Arisings of hazardous waste in baseline year																					
	(2) Forecast regional level growth rate of hazardous waste - per year (%)	3.3%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.0%	1.0%	1.0%	1.0%	1.0%
	Forecast regional level growth rate of hazardous waste - cumulative (%)	107%	109%	112%	115%	118%	121%	123%	126%	128%	131%	133%	135%	137%	139%	141%	144%	145%	146%	148%	149%	151%
	Total arisings of hazardous waste	0.038	0.039	0.040	0.041	0.042	0.043	0.044	0.045	0.046	0.047	0.048	0.048	0.049	0.050	0.051	0.051	0.052	0.052	0.053	0.053	0.054
	(2) Forecast sub-regional level growth rate of hazardous waste - per year (%)	3.3%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.0%	1.0%	1.0%	1.0%	1.0%
	Forecast sub regional level growth rate of hazardous waste - cumulative (%)	107%	109%	112%	115%	118%	121%	123%	126%	128%	131%	133%	135%	137%	139%	141%	144%	145%	146%	148%	149%	151%
	Total arisings of hazardous waste	0.038	0.039	0.040	0.041	0.042	0.043	0.044	0.045	0.046	0.047	0.048	0.048	0.049	0.050	0.051	0.051	0.052	0.052	0.053	0.053	0.054
c&d	Total managed C&D in baseline year																					
	(3) Forecast regional-level growth rate of managed C&D - per year (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Forecast regional-level growth rate of managed C&D - cumulative (%)	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
	(3) Total managed of C&D for the sub-region	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801

(1) Figures from SEERA updated waste capacity model by ERM in 2005.
(2) Baseline year of hazardous waste arisings is 2003 from EA Hazardous Waste Interrogator. www.environment-agency.gov.uk/apps/wastesurvey2/. ERM has assumed that growth in hazardous waste is equal to C&I waste.
(3) These data represent managed C&D waste in the sub-region, including all intra-regional and inter-regional movements. Growth is assumed to be zero from the orginal MEL study and updated modeted by ERM in 2005.
NOTE: C&D waste is not included in arisings because this was taken from survey data by Symonds 2001 which gave values for managed C&D waste.

Berkshire

Figures in blue represent data supplied by each sub-region for the new '2006 SEERA Capacity and Need Model'
Figures in orange represent managed waste that are used by the model to calculate results. These can be adjusted for different scenarios.

DATA_02: INTER REGIONAL MOVEMENTS OF MSW and C&I (Million Tonnes)		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw and c&i	Regional level imports of MSW and C&I waste into the SE region from London	1.76	1.716	1.672	1.628	1.584	1.54	1.454	1.368	1.282	1.196	1.11	1.064	1.018	0.972	0.926	0.88	0.86	0.84	0.82	0.8	0.78
	Proportion of regional MSW and C&I imports that go to the sub-region (%)	8.5%	8.5%	8.5%	8.5%	8.5%	8.5%	8.5%	8.5%	8.5%	8.5%	8.5%	8.5%	8.5%	8.5%	8.5%	8.5%	8.5%	8.5%	8.5%	8.5%	8.5%
	(1) Total imports of MSW and C&I from London into sub-region sent direct to landfill	0.150	0.146	0.142	0.138	0.135	0.131	0.124	0.116	0.109	0.102	0.094	0.090	0.087	0.083	0.079	0.075	0.073	0.071	0.070	0.068	0.066
msw	Proportion of total MSW and C&I imports that are MSW (%) - REGIONAL GROWTH FORECAST	38%	38%	38%	38%	38%	38%	38%	38%	38%	38%	38%	38%	38%	38%	38%	38%	38%	38%	38%	38%	38%
	Total imports of MSW into the sub-region from London - REGIONAL GROWTH FORECAST	0.056	0.055	0.054	0.052	0.051	0.049	0.047	0.044	0.041	0.038	0.036	0.034	0.033	0.031	0.030	0.028	0.028	0.027	0.027	0.026	0.025
	Proportion of total MSW and C&I imports that are MSW (%) - SUB-REGIONAL GROWTH FORECAST	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%
	Total imports of MSW into the sub-region from London - SUB-REGIONAL GROWTH FORECAST	0.056	0.054	0.053	0.051	0.050	0.048	0.045	0.043	0.040	0.037	0.035	0.033	0.032	0.030	0.029	0.027	0.027	0.026	0.026	0.025	0.025
c&i	Proportion of total MSW and C&I imports that are C&I (%) - REGIONAL GROWTH FORECAST	62%	62%	62%	62%	62%	62%	62%	62%	62%	62%	62%	62%	62%	62%	62%	62%	62%	62%	62%	62%	62%
	Total imports of C&I into the sub-region from London - REGIONAL GROWTH FORECAST	0.093	0.091	0.088	0.086	0.084	0.082	0.077	0.072	0.068	0.063	0.059	0.056	0.054	0.051	0.049	0.047	0.045	0.044	0.043	0.042	0.041
	Proportion of total MSW and C&I imports that are C&I (%) - SUB-REGIONAL GROWTH FORECAST	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%
	Total imports of C&I into the sub-region from London - SUB-REGIONAL GROWTH FORECAST	0.094	0.092	0.089	0.087	0.085	0.083	0.078	0.074	0.069	0.064	0.060	0.057	0.055	0.052	0.050	0.047	0.046	0.045	0.044	0.043	0.042

(1) Intra-regional and inter-regional movements have been excluded for MSW and C&I waste due to self-sufficiency requirements under PPS10, except for inter-regional movements from London into the sub-region. Apportionment from Policy W3 in the Plan – downloa
Note: Only a figure is available for total combined imports of MSW and C&I waste. ERM has assumed that imports of the seperate waste streams of MSW and C&I was split according to tonnage arisings of MSW and C&I in the sub-region.

DATA_03: MANAGED WASTE USED TO GENERATE RESULTS (Million Tonnes)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	0.464	0.475	0.487	0.499	0.512	0.525	0.535	0.546	0.557	0.568	0.579	0.588	0.597	0.606	0.615	0.624	0.633	0.643	0.652	0.662	0.672
msw - imports from london that are sent direct to non-hazardous landfill	0.056	0.055	0.054	0.052	0.051	0.049	0.047	0.044	0.041	0.038	0.036	0.034	0.033	0.031	0.030	0.028	0.028	0.027	0.027	0.026	0.025
c&i	0.765	0.784	0.804	0.824	0.844	0.865	0.883	0.900	0.918	0.937	0.956	0.970	0.984	0.999	1.014	1.029	1.040	1.050	1.061	1.071	1.082
c&i - imports from london that are sent direct to non-hazardous landfill	0.093	0.091	0.088	0.086	0.084	0.082	0.077	0.072	0.068	0.063	0.059	0.056	0.054	0.051	0.049	0.047	0.045	0.044	0.043	0.042	0.041
c&d	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801
hazardous	0.038	0.039	0.040	0.041	0.042	0.043	0.044	0.045	0.046	0.047	0.048	0.048	0.049	0.050	0.051	0.051	0.052	0.052	0.053	0.053	0.054

DATA_04: TARGETS (% or Million Tonnes)		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	(1) landfill (Mt)	0.281	0.271	0.257	0.238	0.215	0.186	0.165	0.145	0.124	0.119	0.113	0.108	0.103	0.097	0.092	0.087	0.087	0.087	0.087	0.087	0.087
	recovered (%)	5	6.4	7.8	9.2	10.6	12	14.4	16.8	19.2	21.6	24	24.8	25.6	26.4	27.2	28	27.2	26.4	25.6	24.8	24
	recycled and composted (%)	30	32.0	34.0	36.0	38.0	40	42.0	44.0	46.0	48.0	50	51.0	52.0	53.0	54.0	55	56.0	57.0	58.0	59.0	60
c&i	recovered (%)	14	14.2	14.4	14.6	14.8	15	16.0	17.0	18.0	19.0	20	20.2	20.4	20.6	20.8	21	20.6	20.2	19.8	19.4	19
	recycled and composted (%)	40	42.0	44.0	46.0	48.0	50	51.0	52.0	53.0	54.0	55	56.0	57.0	58.0	59.0	60	61.0	62.0	63.0	64.0	65
c&d	recovered (%)	36	35.4	34.8	34.2	33.6	33	33.6	34.2	34.8	35.4	36	34.4	32.8	31.2	29.6	28	28.4	28.8	29.2	29.6	30
	recycled (%)	45	46.0	47.0	48.0	49.0	50	50.0	50.0	50.0	50.0	50	52.0	54.0	56.0	58.0	60	60.0	60.0	60.0	60.0	60
hazardous	landfill (%)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	recovered (%)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	recycled (%)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

(1) ERM has assumed that the LATS target allowance remains constant at the 2020 value for the years beyond 2020

DATA_05: WASTE STREAM TONNAGES TO MEET TARGETS (Million Tonnes)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025

This first section of DATA_03 calculates if there is a LATS shortfall or suplus in each year. If there is a LATS shortfall (ie insufficient allowance to landfill non-diverted waste) then the model assumes that this extra waste is recycled/composted and r

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	Total MSW to be recovered and recycled/composted to meet target	0.162	0.182	0.204	0.226	0.249	0.273	0.302	0.332	0.363	0.395	0.429	0.446	0.463	0.481	0.499	0.518	0.527	0.536	0.545	0.555	0.565
	Total MSW not-diverted by targets	0.301	0.293	0.283	0.274	0.263	0.252	0.233	0.214	0.194	0.173	0.151	0.142	0.134	0.125	0.116	0.106	0.106	0.107	0.107	0.107	0.108
	Percentage of MSW that is biodegradable (% by weight)	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68
	Total BMW not-diverted by targets	0.205	0.199	0.193	0.186	0.179	0.171	0.159	0.145	0.132	0.117	0.102	0.097	0.091	0.085	0.079	0.072	0.072	0.073	0.073	0.073	0.073
	LATS shortfall (how much extra is landfilled above LATS target)	-0.076	-0.072	-0.064	-0.052	-0.036	-0.015	-0.007	0.001	0.008	-0.001	-0.011	-0.011	-0.012	-0.013	-0.014	-0.015	-0.014	-0.014	-0.014	-0.014	-0.014
	Ratio of 'recovered' to 'recycled/composted' for target (%)	14%	17%	19%	20%	22%	23%	26%	28%	29%	31%	32%	33%	33%	33%	33%	34%	33%	32%	31%	30%	29%
	Extra MSW 'recovery' needed due to LATS shortfall	0.000	0.000	0.000	0.000	0.000	0.000	0.000	*0.000*	*0.002*	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Extra MSW 'recycling/composting' needed due to LATS shortfall	0.000	0.000	0.000	0.000	0.000	0.000	0.000	*0.001*	*0.005*	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

The section below in DATA_03 shows the tonnages by waste to meet targets.

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	Recycling and composting target	0.139	0.152	0.166	0.180	0.194	0.210	0.225	0.241	0.261	0.273	0.290	0.300	0.310	0.321	0.332	0.343	0.355	0.366	0.378	0.391	0.403
	Recovery target	0.023	0.030	0.038	0.046	0.054	0.063	0.077	0.092	0.109	0.123	0.139	0.146	0.153	0.160	0.167	0.175	0.172	0.170	0.167	0.164	0.161
	Non-hazardous landfill	0.301	0.293	0.283	0.274	0.263	0.252	0.233	0.213	0.186	0.173	0.151	0.142	0.134	0.125	0.116	0.106	0.106	0.107	0.107	0.107	0.108
	CHECK COUNTER (should be zero)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
c&i	Recycling and composting target	0.306	0.329	0.354	0.379	0.405	0.433	0.450	0.468	0.487	0.506	0.526	0.543	0.561	0.580	0.598	0.618	0.634	0.651	0.668	0.686	0.703
	Recovery target	0.107	0.111	0.116	0.120	0.125	0.130	0.141	0.153	0.165	0.178	0.191	0.196	0.201	0.206	0.211	0.216	0.214	0.212	0.210	0.208	0.206
	Non-hazardous landfill	0.352	0.343	0.334	0.325	0.314	0.303	0.291	0.279	0.266	0.253	0.239	0.231	0.222	0.214	0.205	0.196	0.191	0.187	0.182	0.178	0.173
	CHECK COUNTER (should be zero)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
c&d	Recycling target	0.811	0.829	0.847	0.865	0.883	0.901	0.901	0.901	0.901	0.901	0.901	0.937	0.973	1.009	1.045	1.081	1.081	1.081	1.081	1.081	1.081
	Recovery target	0.649	0.638	0.627	0.616	0.605	0.594	0.605	0.616	0.627	0.638	0.649	0.620	0.591	0.562	0.533	0.504	0.512	0.519	0.526	0.533	0.540
	Inert landfill	0.342	0.335	0.328	0.321	0.313	0.306	0.295	0.285	0.274	0.263	0.252	0.245	0.238	0.231	0.223	0.216	0.209	0.202	0.195	0.187	0.180
	CHECK COUNTER (should be zero)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
hazardous	Hazardous waste	0.038	0.039	0.040	0.041	0.042	0.043	0.044	0.045	0.046	0.047	0.048	0.048	0.049	0.050	0.051	0.051	0.052	0.052	0.053	0.053	0.054

DATA_06: TOTAL WASTE TONNAGES TO MEET TARGETS (Million Tonnes)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
MSW and C&I recycling and composting target	0.445	0.481	0.519	0.559	0.600	0.643	0.675	0.709	0.748	0.778	0.815	0.843	0.871	0.901	0.930	0.961	0.989	1.017	1.047	1.076	1.107
C&D recycling target	0.811	0.829	0.847	0.865	0.883	0.901	0.901	0.901	0.901	0.901	0.901	0.937	0.973	1.009	1.045	1.081	1.081	1.081	1.081	1.081	1.081
MSW and C&I recovery target	0.130	0.142	0.154	0.166	0.179	0.193	0.218	0.245	0.274	0.301	0.330	0.342	0.354	0.366	0.378	0.391	0.386	0.382	0.377	0.372	0.367
C&D recovery target	0.649	0.638	0.627	0.616	0.605	0.594	0.605	0.616	0.627	0.638	0.649	0.620	0.591	0.562	0.533	0.504	0.512	0.519	0.526	0.533	0.540
Non-hazardous landfill	0.653	0.636	0.618	0.598	0.577	0.555	0.525	0.492	0.452	0.426	0.389	0.373	0.356	0.339	0.320	0.302	0.298	0.294	0.289	0.285	0.281
Inert landfill	0.342	0.335	0.328	0.321	0.313	0.306	0.295	0.285	0.274	0.263	0.252	0.245	0.238	0.231	0.223	0.216	0.209	0.202	0.195	0.187	0.180
Hazardous waste	0.038	0.039	0.040	0.041	0.042	0.043	0.044	0.045	0.046	0.047	0.048	0.048	0.049	0.050	0.051	0.051	0.052	0.052	0.053	0.053	0.054

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CHART_01

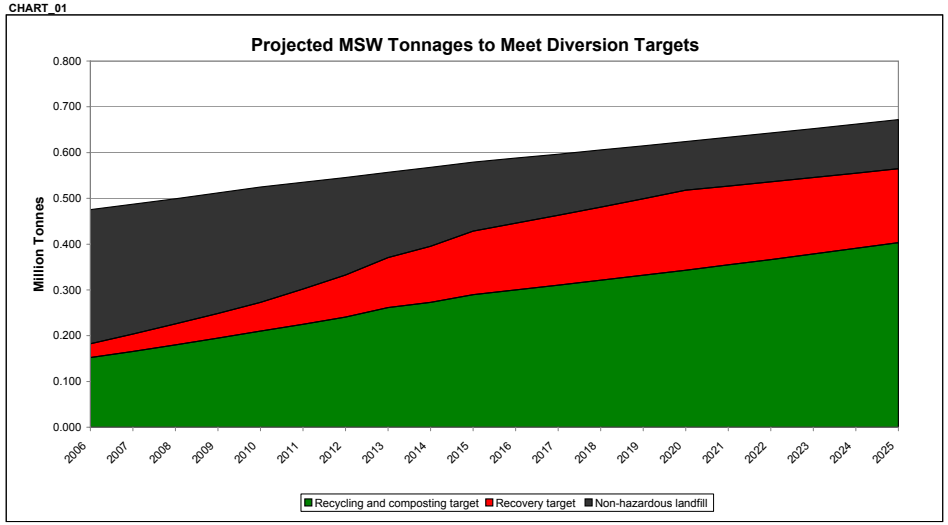

CHART_02

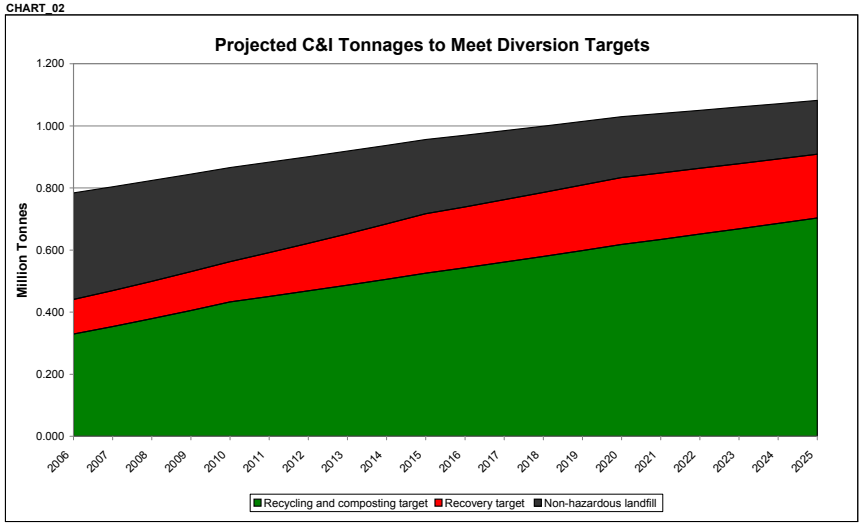

CHART_03

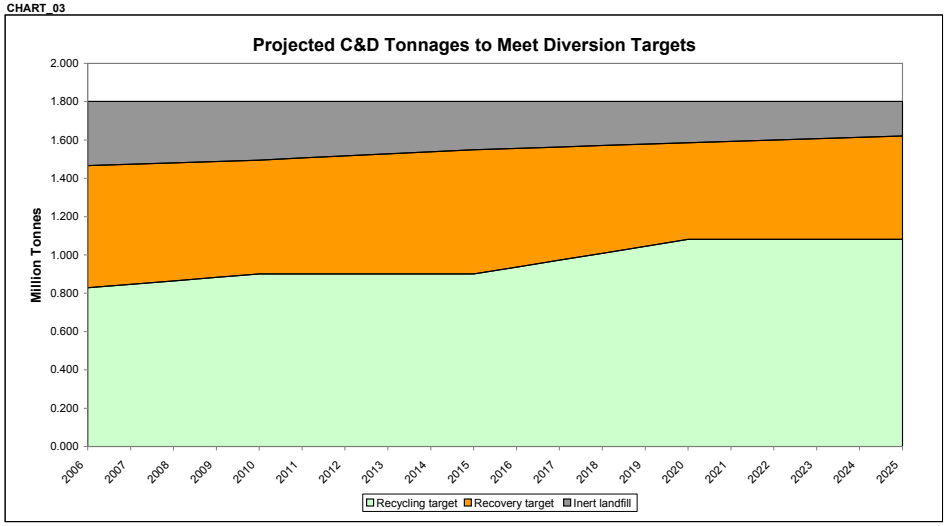

CHART_04

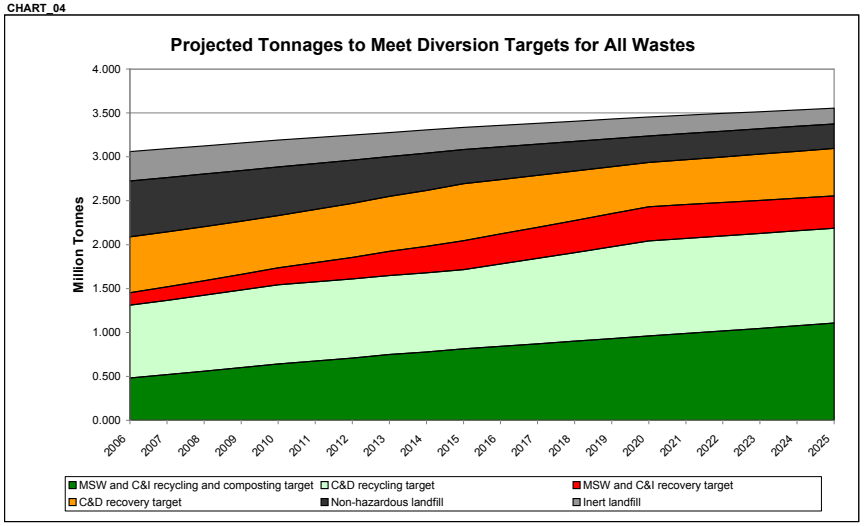

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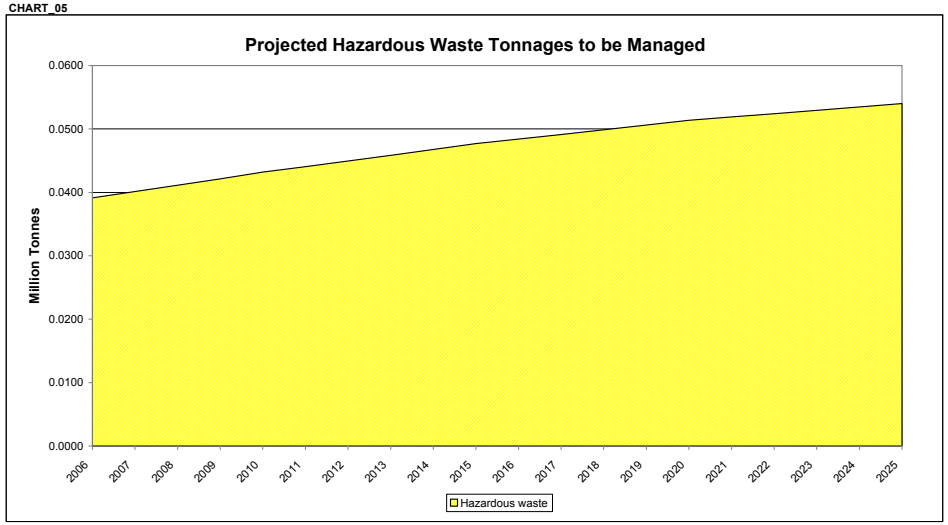
CHART_05



DATA_07: EXISTING/PLANNED CAPACITY FOR RECYCLING, RECOVERY AND LANDFILLING AND TOTAL WASTE TONNAGES TO EACH DISPOSAL ROUTE (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
MSW and C&I recovery																					
MSW and C&I incineration (non-specialist)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
MSW and C&I treatment	0.220	0.220	0.220	0.220	0.220	0.220	0.220	0.220	0.220	0.220	0.220	0.220	0.220	0.220	0.220	0.220	0.220	0.220	0.220	0.220	0.220
Total existing/planned MSW and C&I recovery capacity	0.220	0.220	0.220	0.220	0.220	0.220	0.220	0.220	0.220	0.220	0.220	0.220	0.220	0.220	0.220	0.220	0.220	0.220	0.220	0.220	0.220
Total MSW waste required to meet target	0.023	0.030	0.038	0.046	0.054	0.063	0.077	0.092	0.109	0.123	0.139	0.146	0.153	0.160	0.167	0.175	0.172	0.170	0.167	0.164	0.161
Total C&I waste required to meet target	0.107	0.111	0.116	0.120	0.125	0.130	0.141	0.153	0.165	0.178	0.191	0.196	0.201	0.206	0.211	0.216	0.214	0.212	0.210	0.208	0.206
Surplus/deficit capacity	0.090	0.078	0.066	0.054	0.041	0.027	0.002	-0.025	-0.054	-0.081	-0.110	-0.122	-0.134	-0.146	-0.158	-0.171	-0.166	-0.162	-0.157	-0.152	-0.147
MSW and C&I recycling and composting																					
MSW and C&I recycling	0.601	0.601	0.601	0.601	0.601	0.601	0.601	0.601	0.601	0.601	0.601	0.601	0.601	0.601	0.601	0.601	0.601	0.601	0.601	0.601	0.601
MSW and C&I transfer	1.019	1.019	1.019	1.019	1.019	1.019	1.019	1.019	1.019	1.019	1.019	1.019	1.019	1.019	1.019	1.019	1.019	1.019	1.019	1.019	1.019
Total existing/planned MSW and C&I composting capacity	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035
(1) Total existing/planned MSW and C&I recycling and composting capacity (Baseline: 20% of transfer capacity delivers recycling)	0.840	0.840	0.840	0.840	0.840	0.840	0.840	0.840	0.840	0.840	0.840	0.840	0.840	0.840	0.840	0.840	0.840	0.840	0.840	0.840	0.840
(2) Total existing/planned MSW and C&I recycling and composting capacity (Sensitivity: 5% of transfer capacity delivers recycling)	0.687	0.687	0.687	0.687	0.687	0.687	0.687	0.687	0.687	0.687	0.687	0.687	0.687	0.687	0.687	0.687	0.687	0.687	0.687	0.687	0.687
Total MSW waste required to meet recycling and composting target	0.139	0.152	0.166	0.180	0.194	0.210	0.225	0.241	0.261	0.273	0.290	0.300	0.310	0.321	0.332	0.343	0.355	0.366	0.378	0.391	0.403
Total C&I waste required to meet recycling and composting target	0.306	0.329	0.354	0.379	0.405	0.433	0.450	0.468	0.487	0.506	0.526	0.543	0.561	0.580	0.598	0.618	0.634	0.651	0.668	0.686	0.703
Surplus/deficit capacity (Baseline: 20% of transfer capacity delivers recycling)	0.395	0.358	0.321	0.281	0.240	0.197	0.165	0.131	0.091	0.061	0.025	-0.003	-0.032	-0.061	-0.091	-0.121	-0.149	-0.178	-0.207	-0.236	-0.267
Surplus/deficit capacity (Sensitivity: 5% of transfer capacity delivers recycling)	0.242	0.206	0.168	0.128	0.087	0.044	0.012	-0.022	-0.061	-0.091	-0.128	-0.156	-0.184	-0.214	-0.243	-0.274	-0.302	-0.330	-0.360	-0.389	-0.420
C&D recycling																					
Total existing/planned C&D recycling capacity	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064	0.064
Total waste required to meet C&D recycling target	0.811	0.829	0.847	0.865	0.883	0.901	0.901	0.901	0.901	0.901	0.901	0.937	0.973	1.009	1.045	1.081	1.081	1.081	1.081	1.081	1.081
Surplus/deficit capacity	-0.746	-0.764	-0.782	-0.800	-0.818	-0.836	-0.836	-0.836	-0.836	-0.836	-0.836	-0.872	-0.908	-0.944	-0.980	-1.016	-1.016	-1.016	-1.016	-1.016	-1.016
C&D recovery																					
(3) REGIONAL total existing/planned C&D recovery capacity	1.877	1.794	1.710	1.627	1.544	1.460	1.439	1.418	1.398	1.377	1.356	1.325	1.293	1.262	1.231	1.199	1.220	1.241	1.262	1.283	1.304
Sub-regional total waste required to meet C&D recovery target	0.649	0.638	0.627	0.616	0.605	0.594	0.605	0.616	0.627	0.638	0.649	0.620	0.591	0.562	0.533	0.504	0.512	0.519	0.526	0.533	0.540
Surplus/deficit capacity	1.229	1.156	1.083	1.011	0.938	0.866	0.834	0.802	0.771	0.739	0.707	0.705	0.702	0.700	0.697	0.695	0.709	0.722	0.736	0.750	0.763
Hazardous waste recycling																					
Total existing/planned hazardous waste recycling capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total hazardous waste to be recycled	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Surplus/deficit capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hazardous waste recovery																					
Total existing/planned hazardous waste recovery capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total hazardous waste to be recovered	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Surplus/deficit capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Non-hazardous landfill																					
Available non-hazardous landfill capacity (excluding residues from MSW and C&I recovery)		0.055	-0.882	-1.805	-2.711	-3.601	-4.473	-5.313	-6.118	-6.882	-7.616	-8.312	-8.996	-9.666	-10.323	-10.967	-11.595	-12.222	-12.848	-13.472	-14.095
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'Incineration (non-specialist)'		0.055	-0.903	-1.849	-2.781	-3.698	-4.599	-5.471	-6.313	-7.117	-7.897	-8.642	-9.377	-10.101	-10.813	-11.513	-12.200	-12.885	-13.568	-14.249	-14.927
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'MBT'		0.055	-0.966	-1.979	-2.984	-3.980	-4.965	-5.934	-6.883	-7.809	-8.720	-9.611	-10.496	-11.376	-12.249	-13.115	-13.974	-14.829	-15.680	-16.527	-17.369
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'RDF'		0.055	-0.899	-1.840	-2.767	-3.678	-4.574	-5.439	-6.274	-7.070	-7.840	-8.576	-9.301	-10.014	-10.715	-11.403	-12.079	-12.753	-13.424	-14.094	-14.761
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'treatment'		0.055	-0.946	-1.938	-2.919	-3.890	-4.849	-5.786	-6.702	-7.589	-8.458	-9.303	-10.140	-10.970	-11.792	-12.605	-13.410	-14.211	-15.008	-15.802	-16.592
Total MSW and C&I waste sent direct to non-hazardous landfill		0.636	0.618	0.598	0.577	0.555	0.525	0.492	0.452	0.426	0.389	0.373	0.356	0.339	0.320	0.302	0.298	0.294	0.289	0.285	0.281
Inert landfill																					
Available inert landfill capacity		0.091	-0.244	-0.572	-0.893	-1.206	-1.513	-1.808	-2.093	-2.366	-2.629	-2.882	-3.127	-3.364	-3.595	-3.818	-4.035	-4.244	-4.445	-4.640	-4.827
Available inert landfill capacity assuming all MSW and C&I recovery by 'Incineration (non-specialist)'		0.091	-0.266	-0.617	-0.962	-1.302	-1.638	-1.966	-2.287	-2.602	-2.910	-3.212	-3.508	-3.799	-4.085	-4.365	-4.639	-4.906	-5.165	-5.417	-5.660
Total C&D waste sent direct to inert landfill	0.342	0.335	0.328	0.321	0.313	0.306	0.295	0.285	0.274	0.263	0.252	0.245	0.238	0.231	0.223	0.216	0.209	0.202	0.195	0.187	0.180
Hazardous landfill																					
Available hazardous landfill capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total hazardous waste sent direct to hazardous landfill	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Other																					
Metal/ELV facility	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088
Ignored	1.525	1.525	1.525	1.525	1.525	1.525	1.525	1.525	1.525	1.525	1.525	1.525	1.525	1.525	1.525	1.525	1.525	1.525	1.525	1.525	1.525
Closed	0.640	0.640	0.640	0.640	0.640	0.640	0.640	0.640	0.640	0.640	0.640	0.640	0.640	0.640	0.640	0.640	0.640	0.640	0.640	0.640	0.640

(1) ERM has assumed that 20% of the total 'transfer' capacity will deliver recycling capacity
(2) ERM has assumed that 5% of the total 'transfer' capacity will deliver recycling capacity
(3) Data for C&D recovery for landfill cover for the SE Region were sourced from the original MEL model, which sourced the data from Symonds (2001)
Note:

Berkshire

DATA_08: RESIDUE RATES (%)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Recovery residues (% by weight)																					
MSW and C&I incineration (non-specialist) - bottom ash	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
MSW and C&I incineration (non-specialist) - fly ash	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
MSW and C&I to MBT	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59
MSW and C&I to RDF	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
MSW and C&I treatment - non-hazardous	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45
MSW and C&I treatment - hazardous	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Hazardous waste recovery	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Recycling residues (% by weight)																					
MSW and C&I recycling	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
MSW and C&I transfer	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
MSW and C&I composting	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
C&D recycling	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Hazardous waste recycling	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Other																					
Metal/ELV facility	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Ignored	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Closed	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Note: All residues are calculated on the amount of waste arising not on the maount of capacity available. This is complaince with the self-sufficiency requirements of PPS10.

DATA_09: TOTAL RESIDUE (Million Tonnes)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Recovery residues (of waste managed):																					
MSW and C&I incineration (non-specialist) - bottom ash	0.039	0.043	0.046	0.050	0.054	0.058	0.065	0.073	0.082	0.090	0.099	0.103	0.106	0.110	0.113	0.117	0.116	0.115	0.113	0.112	0.110
MSW and C&I incineration (non-specialist) - fly ash	0.004	0.004	0.005	0.005	0.005	0.006	0.007	0.007	0.008	0.009	0.010	0.010	0.011	0.011	0.011	0.012	0.012	0.011	0.011	0.011	0.011
MSW and C&I to MBT	0.077	0.084	0.091	0.098	0.106	0.114	0.129	0.145	0.162	0.177	0.195	0.202	0.209	0.216	0.223	0.231	0.228	0.225	0.222	0.220	0.216
MSW and C&I to RDF	0.016	0.017	0.018	0.020	0.022	0.023	0.026	0.029	0.033	0.036	0.040	0.041	0.042	0.044	0.045	0.047	0.046	0.046	0.045	0.045	0.044
MSW and C&I treatment - non-hazardous	0.059	0.064	0.069	0.075	0.081	0.087	0.098	0.110	0.124	0.135	0.149	0.154	0.159	0.165	0.170	0.176	0.174	0.172	0.170	0.167	0.165
MSW and C&I treatment - hazardous	0.007	0.007	0.008	0.008	0.009	0.010	0.011	0.012	0.014	0.015	0.017	0.017	0.018	0.018	0.019	0.020	0.019	0.019	0.019	0.019	0.018
Hazardous waste recovery	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Recycling residues (of waste managed):																					
MSW and C&I recycling and composting	0.067	0.072	0.078	0.084	0.090	0.096	0.101	0.106	0.112	0.117	0.122	0.126	0.131	0.135	0.140	0.144	0.148	0.153	0.157	0.161	0.166
C&D recycling	0.081	0.083	0.085	0.086	0.088	0.090	0.090	0.090	0.090	0.090	0.090	0.094	0.097	0.101	0.104	0.108	0.108	0.108	0.108	0.108	0.108
Hazardous waste recycling	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Note: All residues are calculated on the amount of waste arising not on the maount of capacity available. This is complaince with the self-sufficiency requirements of PPS10.

DATA_10: TOTAL MSW AND C&I RESIDUE FROM RECYCLING SENT TO NON-HAZARDOUS LANDFILL (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Total MSW and C&I recycling and composting residue sent to non-hazardous landfill	0.148	0.155	0.163	0.170	0.178	0.186	0.191	0.196	0.202	0.207	0.212	0.220	0.228	0.236	0.244	0.252	0.256	0.261	0.265	0.270	0.274

DATA_11: TOTAL MSW AND C&I RESIDUE FROM RECOVERY SENT TO NON-HAZARDOUS LANDFILL AND C&D RECYCLING (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
SCENARIO 1 - Assumes all recovery is by 'Non-specialist incineration' (based on total recovery capacity)																					
(1) Total MSW and C&I residue sent to non-hazardous landfill assuming all MSW and C&I recovery by 'Non-specialist incineration'	0.020	0.021	0.023	0.025	0.027	0.029	0.033	0.037	0.041	0.045	0.050	0.051	0.053	0.055	0.057	0.059	0.058	0.057	0.057	0.056	0.055
(1) Total MSW and C&I residue sent to inert landfill assuming all MSW and C&I recovery by 'Non-specialist incineration'	0.020	0.021	0.023	0.025	0.027	0.029	0.033	0.037	0.041	0.045	0.050	0.051	0.053	0.055	0.057	0.059	0.058	0.057	0.057	0.056	0.055
SCENARIO 2 - Assumes all recovery is by 'MBT' (based on total recovery capacity)																					
Total MSW and C&I residue sent to non-hazardous landfill	0.077	0.084	0.091	0.098	0.106	0.114	0.129	0.145	0.162	0.177	0.195	0.202	0.209	0.216	0.223	0.231	0.228	0.225	0.222	0.220	0.216
SCENARIO 3 - Assumes all recovery is by 'RDF' (based on total recovery capacity)																					
Total MSW and C&I residue sent to non-hazardous landfill	0.016	0.017	0.018	0.020	0.022	0.023	0.026	0.029	0.033	0.036	0.040	0.041	0.042	0.044	0.045	0.047	0.046	0.046	0.045	0.045	0.044
SCENARIO 4 - Assumes all recovery is by 'treatment' (based on total recovery capacity)																					
Total MSW and C&I residue sent to non-hazardous landfill	0.059	0.064	0.069	0.075	0.081	0.087	0.098	0.110	0.124	0.135	0.149	0.154	0.159	0.165	0.170	0.176	0.174	0.172	0.170	0.167	0.165

(1) It was assumed that 50% of residue from 'non-specialist incineration' is sent to non-hazardous landfill and 50% is sent to inert landfill. In the original model assumptions developed MEL 50% was assumed to go to C&D recycling, rather than to inert landfi

DATA_12: TONNAGES OF C&D REUSED ON NON-HAZARDOUS AND INERT LANDFILL (Million Tonnes)

(1) C&D reused on landfill sites	39	%
(1) C&D reused on exempt sites	61	%
(1) C&D reused on landfill sites sent to 'non-haz landfill'	30	%
(1) C&D reused on landfill sites sent to 'inert landfill'	70	%

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
c&d	Total C&D reused on non-hazardous landfill	0.075	0.074	0.073	0.072	0.070	0.069	0.070	0.072	0.073	0.074	0.075	0.072	0.069	0.065	0.062	0.059	0.060	0.060	0.061	0.062	0.063
	Total reused C&D on inert landfill	0.176	0.173	0.170	0.167	0.164	0.161	0.164	0.167	0.170	0.173	0.176	0.168	0.160	0.153	0.145	0.137	0.139	0.141	0.143	0.145	0.147

(1) C&D reuse rates based on original model assumptions developed MEL
NOTE: C&D reuse on inert and non-hazardous landfill is not included within the charts because it has been assumed that data supplied by each sub-region has accounted for C&D reuse as an engineering material.

DATA_13: TOTAL MSW AND C&I RESIDUE FROM RECYCLING SENT TO HAZARDOUS LANDFILL (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Total MSW and C&I recycling and composting residue sent to hazardous landfill	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

DATA_14: TOTAL MSW AND C&I RESIDUE FROM RECOVERY SENT TO HAZARDOUS LANDFILL (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
SCENARIO 1 - Assumes all recovery is by 'Non-specialist incineration' (based on total recovery capacity)																					
Total MSW and C&I residue sent to hazardous landfill assuming all MSW and C&I recovery by 'Non-specialist incineration'	0.004	0.004	0.005	0.005	0.005	0.006	0.007	0.007	0.008	0.009	0.010	0.010	0.011	0.011	0.011	0.012	0.012	0.011	0.011	0.011	0.011
SCENARIO 2 - Assumes all recovery is by 'MBT' (based on total recovery capacity)																					
Total MSW and C&I residue sent to hazardous landfill	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SCENARIO 3 - Assumes all recovery is by 'RDF' (based on total recovery capacity)																					
Total MSW and C&I residue sent to hazardous landfill	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SCENARIO 4 - Assumes all recovery is by 'treatment' (based on total recovery capacity)																					
Total MSW and C&I residue sent to hazardous landfill	0.007	0.007	0.008	0.008	0.009	0.010	0.011	0.012	0.014	0.015	0.017	0.017	0.018	0.018	0.019	0.020	0.019	0.019	0.019	0.019	0.018

NOTE: This element of the model is redundant. There is currently no hazardous waste capacity figures to generate a chart of managed waste versus available capacity.

DATA_15: TOTAL HAZARDOUS WASTE RESIDUE FROM RECOVERY AND RECYCLING SENT TO HAZARDOUS LANDFILL (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Total hazardous waste recycling and recovery residue sent to hazardous landfill	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Berkshire

CHART_06

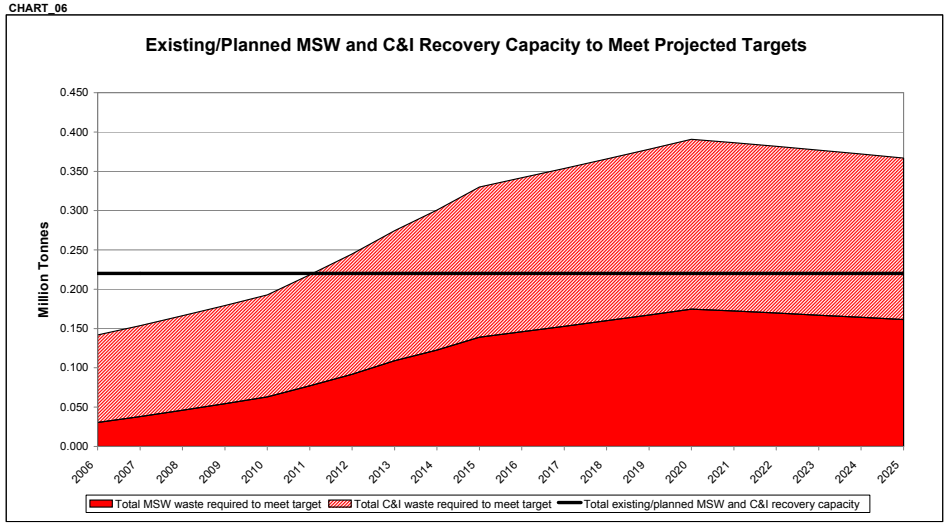


CHART_07

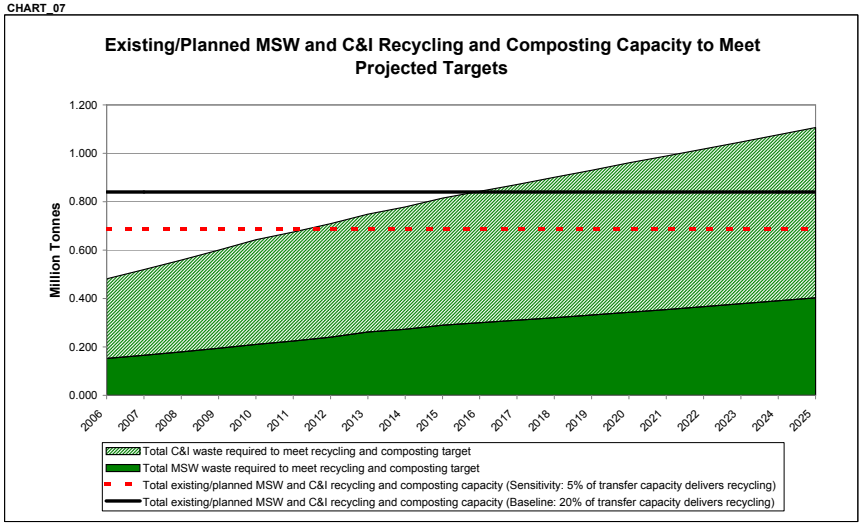
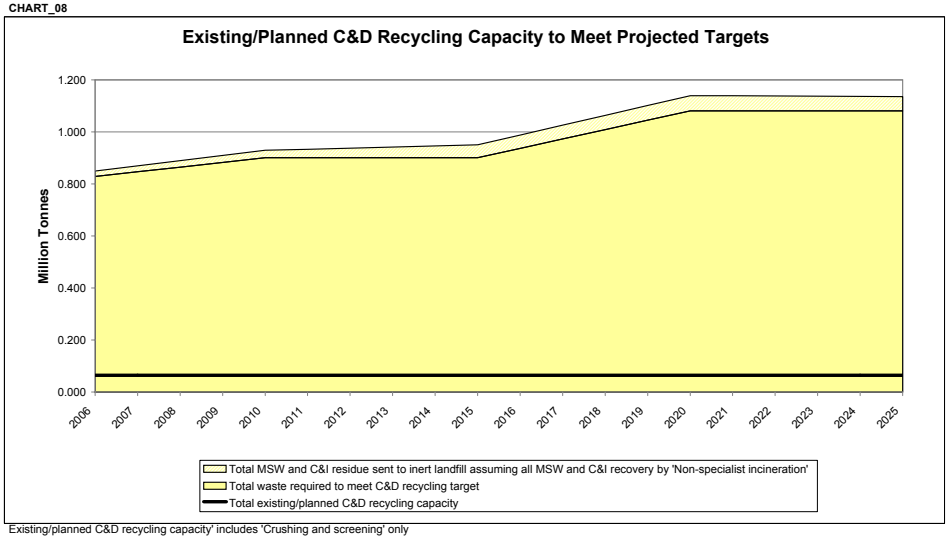


CHART_08



Existing/planned C&D recycling capacity' includes 'Crushing and screening' only
NOTE: This capacity does not represent the quantity of material that is recycled.
NOTE: Residue from MSW and C&I recovery is based on existing/planned capacity (not waste tonnage to meet recovery target)

Berkshire

CHART_09

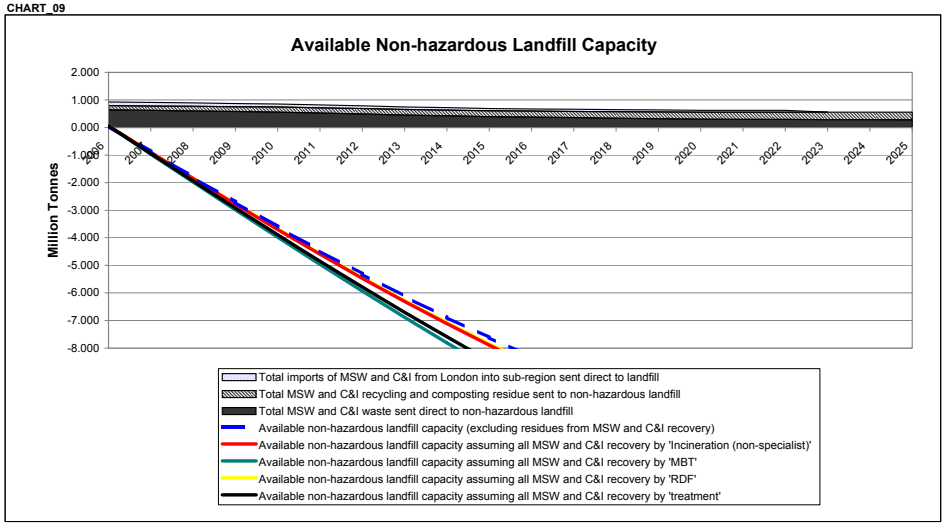
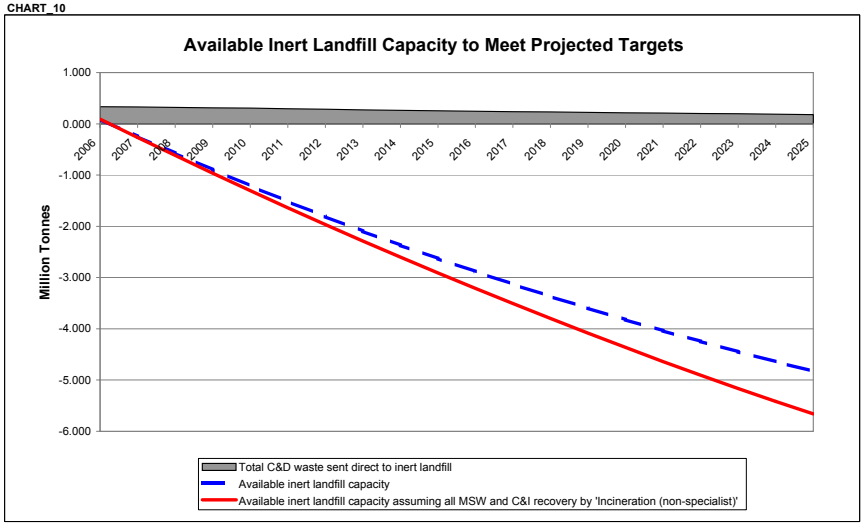


CHART_10



NOTE: The graph assumes that the baseline capacity for non-hazardous landfill has accounted for C&D reuse as a landfill engineering material.

Buckinghamshire

SUMMARY DATA AND RESULTS FOR BUCKINGHAMSHIRE

MANAGED WASTE USED TO GENERATE RESULTS (Million Tonnes)	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	0.304	0.312	0.320	0.328	0.336	0.343	0.350	0.357	0.364	0.371	0.377	0.382	0.388	0.394	0.400	0.406	0.412	0.418	0.424	0.431
msw - imports from london that are sent direct to non-hazardous landfill	0.072	0.070	0.068	0.066	0.064	0.061	0.057	0.053	0.050	0.046	0.044	0.042	0.041	0.039	0.037	0.036	0.035	0.035	0.034	0.033
c&i	0.922	0.945	0.969	0.993	1.018	1.038	1.059	1.080	1.102	1.124	1.141	1.158	1.175	1.193	1.210	1.223	1.235	1.247	1.260	1.272
c&i - imports from london that are sent direct to non-hazardous landfill	0.217	0.211	0.206	0.200	0.194	0.184	0.173	0.162	0.151	0.140	0.134	0.129	0.123	0.117	0.111	0.108	0.106	0.103	0.101	0.098
c&d	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711
hazardous	0.012	0.012	0.012	0.013	0.013	0.013	0.013	0.014	0.014	0.014	0.014	0.015	0.015	0.015	0.015	0.016	0.016	0.016	0.016	0.016

WASTE STREAM TONNAGES TO MEET TARGETS (Million Tonnes)		2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	LATS shortfall (how much extra is landfilled above LATS target)	-0.006	-0.004	-0.002	0.002	0.008	0.011	0.014	0.016	0.010	0.003	0.003	0.002	0.001	0.000	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
	Recycling and composting target	0.097	0.106	0.115	0.126	0.140	0.152	0.164	0.176	0.182	0.188	0.194	0.200	0.206	0.213	0.220	0.227	0.235	0.242	0.250	0.258
	Recovery target	0.019	0.024	0.029	0.035	0.042	0.052	0.063	0.073	0.082	0.090	0.094	0.098	0.103	0.107	0.112	0.110	0.109	0.107	0.105	0.103
	Non-hazardous landfill	0.188	0.182	0.175	0.166	0.154	0.139	0.123	0.108	0.100	0.093	0.088	0.084	0.079	0.074	0.068	0.068	0.068	0.069	0.069	0.069
c&i	Recycling and composting target	0.387	0.416	0.446	0.477	0.509	0.529	0.551	0.572	0.595	0.618	0.639	0.660	0.681	0.704	0.726	0.746	0.766	0.786	0.806	0.827
	Recovery target	0.131	0.136	0.141	0.147	0.153	0.166	0.180	0.194	0.209	0.225	0.230	0.236	0.242	0.248	0.254	0.252	0.249	0.247	0.244	0.242
	Non-hazardous landfill	0.404	0.393	0.382	0.369	0.356	0.343	0.328	0.313	0.297	0.281	0.271	0.262	0.251	0.241	0.230	0.225	0.220	0.215	0.209	0.204
c&d	Recycling target	0.327	0.334	0.341	0.348	0.356	0.356	0.356	0.356	0.356	0.356	0.370	0.384	0.398	0.412	0.427	0.427	0.427	0.427	0.427	0.427
	Recovery target	0.252	0.247	0.243	0.239	0.235	0.239	0.243	0.247	0.252	0.256	0.245	0.233	0.222	0.211	0.199	0.202	0.205	0.208	0.211	0.213
	Inert landfill	0.132	0.129	0.127	0.124	0.121	0.117	0.112	0.108	0.104	0.100	0.097	0.094	0.091	0.088	0.085	0.082	0.080	0.077	0.074	0.071
hazardous	Hazardous waste	0.012	0.012	0.012	0.013	0.013	0.013	0.013	0.014	0.014	0.014	0.014	0.015	0.015	0.015	0.015	0.016	0.016	0.016	0.016	0.016

Note: If there is a LATS shortfall, denoted by a positive number, (ie insufficient allowance to landfill non-diverted waste) then the model assumes that this extra waste is recycled/composted and recovered at the same ratio as the regional targets for recycling/composting and recovery for that year.

EXISTING/PLANNED CAPACITY FOR RECYCLING, RECOVERY AND LANDFILLING AND TOTAL WASTE TONNAGES TO EACH DISPOSAL ROUTE (Million Tonnes)		2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
MSW and C&I recovery																					
	Total existing/planned MSW and C&I recovery capacity	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186
	Surplus/deficit capacity	0.036	0.026	0.016	0.004	-0.008	-0.032	-0.056	-0.081	-0.105	-0.128	-0.138	-0.148	-0.158	-0.169	-0.180	-0.176	-0.172	-0.168	-0.163	-0.159
MSW and C&I recycling and composting																					
	Total existing/planned MSW and C&I recycling and composting capacity (Baseline: 20% of transfer capacity delivers recycling)	0.350	0.350	0.350	0.350	0.350	0.350	0.350	0.350	0.350	0.350	0.350	0.350	0.350	0.350	0.350	0.350	0.350	0.350	0.350	0.350
	Total existing/planned MSW and C&I recycling and composting capacity (Sensitivity: 5% of transfer capacity delivers recycling)	0.293	0.293	0.293	0.293	0.293	0.293	0.293	0.293	0.293	0.293	0.293	0.293	0.293	0.293	0.293	0.293	0.293	0.293	0.293	0.293
	Surplus/deficit capacity (Baseline: 20% of transfer capacity delivers recycling)	-0.135	-0.172	-0.211	-0.253	-0.300	-0.332	-0.365	-0.399	-0.427	-0.456	-0.483	-0.510	-0.538	-0.567	-0.597	-0.624	-0.651	-0.679	-0.707	-0.736
	Surplus/deficit capacity (Sensitivity: 5% of transfer capacity delivers recycling)	-0.192	-0.229	-0.268	-0.310	-0.357	-0.389	-0.422	-0.455	-0.484	-0.513	-0.540	-0.567	-0.595	-0.624	-0.654	-0.680	-0.708	-0.736	-0.764	-0.793
C&D recycling																					
	Total existing/planned C&D recycling capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Surplus/deficit capacity	-0.327	-0.334	-0.341	-0.348	-0.356	-0.356	-0.356	-0.356	-0.356	-0.356	-0.370	-0.384	-0.398	-0.412	-0.427	-0.427	-0.427	-0.427	-0.427	-0.427
C&D recovery																					
	REGIONAL total existing/planned C&D recovery capacity	1.794	1.710	1.627	1.544	1.460	1.439	1.418	1.398	1.377	1.356	1.325	1.293	1.262	1.231	1.199	1.220	1.241	1.262	1.283	1.304
	Surplus/deficit capacity	1.542	1.463	1.384	1.305	1.225	1.200	1.175	1.150	1.125	1.100	1.080	1.060	1.040	1.020	1.000	1.018	1.036	1.054	1.072	1.090
Hazardous waste recycling																					
	Total existing/planned hazardous waste recycling capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Surplus/deficit capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hazardous waste recovery																					
	Total existing/planned hazardous waste recovery capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Surplus/deficit capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Non-hazardous landfill																					
	Available non-hazardous landfill capacity (excluding residues from MSW and C&I recovery)	10.500	9.515	8.547	7.599	6.672	5.770	4.907	4.083	3.299	2.548	1.831	1.131	0.447	-0.220	-0.869	-1.499	-2.125	-2.747	-3.365	-3.979
	Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'Incineration (non-specialist)'	10.500	9.492	8.501	7.527	6.572	5.641	4.745	3.885	3.061	2.266	1.502	0.753	0.019	-0.699	-1.402	-2.087	-2.768	-3.443	-4.114	-4.780
	Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'MBT'	10.500	9.426	8.364	7.315	6.280	5.264	4.272	3.305	2.363	1.440	0.537	-0.355	-1.236	-2.106	-2.965	-3.811	-4.651	-5.484	-6.311	-7.131
	Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'RDF'	10.500	9.497	8.510	7.541	6.592	5.667	4.778	3.925	3.108	2.323	1.568	0.829	0.105	-0.603	-1.295	-1.969	-2.639	-3.304	-3.964	-4.620
	Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'treatment'	10.500	9.447	8.408	7.382	6.373	5.384	4.422	3.489	2.585	1.703	0.844	-0.002	-0.837	-1.658	-2.467	-3.263	-4.052	-4.835	-5.612	-6.383
Inert landfill																					
	Available inert landfill capacity	25.700	25.568	25.438	25.312	25.188	25.067	24.950	24.838	24.730	24.626	24.527	24.430	24.336	24.245	24.157	24.071	23.989	23.909	23.832	23.758
	Available inert landfill capacity assuming all MSW and C&I recovery by 'Incineration (non-specialist)'	25.700	25.545	25.392	25.239	25.088	24.938	24.789	24.640	24.492	24.344	24.198	24.052	23.908	23.765	23.624	23.484	23.347	23.213	23.084	22.957
Hazardous landfill																					
	Available hazardous landfill capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Note: The model does not contain data for the management of hazardous waste.

DATA_01: ARISINGS AND GROWTH RATES OF MSW, C&I AND HAZARDOUS WASTE (Million Tonnes)		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	Arisings of MSW in baseline year																					
	(1) Forecast regional level growth rate of MSW - per year (%)	3.0%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%
	(1) Forecast regional level growth rate of MSW - cumulative (%)	109%	112%	115%	118%	121%	124%	126%	129%	131%	134%	136%	139%	141%	143%	145%	147%	149%	151%	154%	156%	158%
	Total arisings of MSW using regional growth forecasts	0.297	0.304	0.312	0.320	0.328	0.336	0.343	0.350	0.357	0.364	0.371	0.377	0.382	0.388	0.394	0.400	0.406	0.412	0.418	0.424	0.431
	(1) Forecast sub-regional growth rate of MSW - per year (%)	3.0%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%
	(1) Forecast sub-regional level growth rate of MSW - cumulative (%)	109%	112%	115%	118%	121%	124%	126%	129%	131%	134%	136%	139%	141%	143%	145%	147%	149%	151%	154%	156%	158%
	Total arisings of MSW using sub-regional growth forecasts	0.297	0.304	0.312	0.320	0.328	0.336	0.343	0.350	0.357	0.364	0.371	0.377	0.382	0.388	0.394	0.400	0.406	0.412	0.418	0.424	0.431
c&i	Arisings of C&I in baseline year																					
	(1) Forecast regional level growth rate of C&I - per year (%)	3.3%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.0%	1.0%	1.0%	1.0%	1.0%
	(1) Forecast regional level growth rate of C&I - cumulative (%)	117%	120%	123%	126%	130%	133%	136%	138%	141%	144%	147%	149%	151%	153%	156%	158%	160%	161%	163%	164%	166%
	Total arisings of C&I using regional growth forecasts	0.900	0.922	0.945	0.969	0.993	1.018	1.038	1.059	1.080	1.102	1.124	1.141	1.158	1.175	1.193	1.210	1.223	1.235	1.247	1.260	1.272
	(1) Forecast sub-regional level growth rate of C&I - per year (%)	3.3%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.0%	1.0%	1.0%	1.0%	1.0%
	(1) Forecast sub-regional level growth rate of C&I - cumulative (%)	117%	120%	123%	126%	130%	133%	136%	138%	141%	144%	147%	149%	151%	153%	156%	158%	160%	161%	163%	164%	166%
	Total arisings of C&I using sub-regional growth forecasts	0.900	0.922	0.945	0.969	0.993	1.018	1.038	1.059	1.080	1.102	1.124	1.141	1.158	1.175	1.193	1.210	1.223	1.235	1.247	1.260	1.272
hazardous	Arisings of hazardous waste in baseline year																					
	(2) Forecast regional level growth rate of hazardous waste - per year (%)	3.3%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.0%	1.0%	1.0%	1.0%	1.0%
	Forecast regional level growth rate of hazardous waste - cumulative (%)	107%	109%	112%	115%	118%	121%	123%	126%	128%	131%	133%	135%	137%	139%	141%	144%	145%	146%	148%	149%	151%
	Total arisings of hazardous waste	0.011	0.012	0.012	0.012	0.013	0.013	0.013	0.013	0.014	0.014	0.014	0.014	0.015	0.015	0.015	0.015	0.016	0.016	0.016	0.016	0.016
	(2) Forecast sub-regional level growth rate of hazardous waste - per year (%)	3.3%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.0%	1.0%	1.0%	1.0%	1.0%
	Forecast sub regional level growth rate of hazardous waste - cumulative (%)	107%	109%	112%	115%	118%	121%	123%	126%	128%	131%	133%	135%	137%	139%	141%	144%	145%	146%	148%	149%	151%
	Total arisings of hazardous waste	0.011	0.012	0.012	0.012	0.013	0.013	0.013	0.013	0.014	0.014	0.014	0.014	0.015	0.015	0.015	0.015	0.016	0.016	0.016	0.016	0.016
c&d	Total managed C&D in baseline year																					
	(3) Forecast regional-level growth rate of managed C&D - per year (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Forecast regional-level growth rate of managed C&D - cumulative (%)	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
	(3) Total managed of C&D for the sub-region	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711

(1) Figures from SEERA updated waste capacity model by ERM in 2005.
(2) Baseline year of hazardous waste arisings is 2003 from EA Hazardous Waste Interrogator. www.environment-agency.gov.uk/apps/wastesurvey2/. ERM has assumed that growth in hazardous waste is equal to C&I waste.
(3) These data represent managed C&D waste in the sub-region, including all intra-regional and inter-regional movements. Growth is assumed to be zero from the orginal MEL study and updated modeted by ERM in 2005.
NOTE: C&D waste is not included in arisings because this was taken from survey data by Symonds 2001 which gave values for managed C&D waste.

Buckinghamshire

Figure in blue represent data supplied by each sub-region for the new '2006 SEERA Capacity and Need Model'
Figures in orange represent managed waste that are used by the model to calculate results. These can be adjusted for different scenarios.

DATA_02: INTER REGIONAL MOVEMENTS OF MSW and C&I (Million Tonnes)		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw and c&i	Regional level imports of MSW and C&I waste into the SE region from London	1.76	1.716	1.672	1.628	1.584	1.54	1.454	1.368	1.282	1.196	1.11	1.064	1.018	0.972	0.926	0.88	0.86	0.84	0.82	0.8	0.78
	Proportion of regional MSW and C&I imports that go to the sub-region (%)	16.8%	16.8%	16.8%	16.8%	16.8%	16.8%	16.8%	16.8%	16.8%	16.8%	16.8%	16.8%	16.8%	16.8%	16.8%	16.8%	16.8%	16.8%	16.8%	16.8%	16.8%
	(1) Total imports of MSW and C&I from London into sub-region sent direct to landfill	0.296	0.288	0.281	0.274	0.266	0.259	0.244	0.230	0.215	0.201	0.186	0.179	0.171	0.163	0.156	0.148	0.144	0.141	0.138	0.134	0.131
msw	Proportion of total MSW and C&I imports that are MSW (%) - REGIONAL GROWTH FORECAST	25%	25%	25%	25%	25%	25%	25%	25%	25%	25%	25%	25%	25%	25%	25%	25%	25%	25%	25%	25%	25%
	Total imports of MSW into the sub-region from London - REGIONAL GROWTH FORECAST	0.073	0.072	0.070	0.068	0.066	0.064	0.061	0.057	0.053	0.050	0.046	0.044	0.042	0.041	0.039	0.037	0.036	0.035	0.035	0.034	0.033
	Proportion of total MSW and C&I imports that are MSW (%) - SUB-REGIONAL GROWTH FORECAST	25%	25%	25%	25%	25%	25%	25%	25%	25%	25%	25%	25%	25%	25%	25%	25%	25%	25%	25%	25%	25%
	Total imports of MSW into the sub-region from London - SUB-REGIONAL GROWTH FORECAST	0.073	0.072	0.070	0.068	0.066	0.064	0.061	0.057	0.053	0.050	0.046	0.044	0.042	0.041	0.039	0.037	0.036	0.035	0.035	0.034	0.033
c&i	Proportion of total MSW and C&I imports that are C&I (%) - REGIONAL GROWTH FORECAST	75%	75%	75%	75%	75%	75%	75%	75%	75%	75%	75%	75%	75%	75%	75%	75%	75%	75%	75%	75%	75%
	Total imports of C&I into the sub-region from London - REGIONAL GROWTH FORECAST	0.222	0.217	0.211	0.206	0.200	0.194	0.184	0.173	0.162	0.151	0.140	0.134	0.129	0.123	0.117	0.111	0.108	0.106	0.103	0.101	0.098
	Proportion of total MSW and C&I imports that are C&I (%) - SUB-REGIONAL GROWTH FORECAST	75%	75%	75%	75%	75%	75%	75%	75%	75%	75%	75%	75%	75%	75%	75%	75%	75%	75%	75%	75%	75%
	Total imports of C&I into the sub-region from London - SUB-REGIONAL GROWTH FORECAST	0.222	0.217	0.211	0.206	0.200	0.194	0.184	0.173	0.162	0.151	0.140	0.134	0.129	0.123	0.117	0.111	0.108	0.106	0.103	0.101	0.098

(1) Intra-regional and inter-regional movements have been excluded for MSW and C&I waste due to self-sufficiency requirements under PPS10, except for inter-regional movements from London into the sub-region. Apportionment from Policy W3 in the Plan – downloadable from http://www.southeast-ra.gov.uk/southeastplan/plan/march_2006/core_document/009_seera_s
Note: Only a figure is available for total combined imports of MSW and C&I waste. ERM has assumed that imports of the seperate waste streams of MSW and C&I was split according to tonnage arisings of MSW and C&I in the sub-region.

DATA_03: MANAGED WASTE USED TO GENERATE RESULTS (Million Tonnes)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	0.297	0.304	0.312	0.320	0.328	0.336	0.343	0.350	0.357	0.364	0.371	0.377	0.382	0.388	0.394	0.400	0.406	0.412	0.418	0.424	0.431
msw - imports from london that are sent direct to non-hazardous landfill	0.073	0.072	0.070	0.068	0.066	0.064	0.061	0.057	0.053	0.050	0.046	0.044	0.042	0.041	0.039	0.037	0.036	0.035	0.035	0.034	0.033
c&i	0.900	0.922	0.945	0.969	0.993	1.018	1.038	1.059	1.080	1.102	1.124	1.141	1.158	1.175	1.193	1.210	1.223	1.235	1.247	1.260	1.272
c&I - imports from london that are sent direct to non-hazardous landfill	0.222	0.217	0.211	0.206	0.200	0.194	0.184	0.173	0.162	0.151	0.140	0.134	0.129	0.123	0.117	0.111	0.108	0.106	0.103	0.101	0.098
c&d	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711
hazardous	0.011	0.012	0.012	0.012	0.013	0.013	0.013	0.013	0.014	0.014	0.014	0.014	0.015	0.015	0.015	0.015	0.016	0.016	0.016	0.016	0.016

DATA_04: TARGETS (% or Million Tonnes)		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	(1) landfill (Mt)	0.137	0.133	0.128	0.121	0.112	0.102	0.091	0.079	0.068	0.065	0.062	0.059	0.056	0.053	0.050	0.048	0.048	0.048	0.048	0.048	0.048
	recovered (%)	5	6.4	7.8	9.2	10.6	12	14.4	16.8	19.2	21.6	24	24.8	25.6	26.4	27.2	28	27.2	26.4	25.6	24.8	24
	recycled and composted (%)	30	32.0	34.0	36.0	38.0	40	42.0	44.0	46.0	48.0	50	51.0	52.0	53.0	54.0	55	56.0	57.0	58.0	59.0	60
c&i	recovered (%)	14	14.2	14.4	14.6	14.8	15	16.0	17.0	18.0	19.0	20	20.2	20.4	20.6	20.8	21	20.6	20.2	19.8	19.4	19
	recycled and composted (%)	40	42.0	44.0	46.0	48.0	50	51.0	52.0	53.0	54.0	55	56.0	57.0	58.0	59.0	60	61.0	62.0	63.0	64.0	65
c&d	recovered (%)	36	35.4	34.8	34.2	33.6	33	33.6	34.2	34.8	35.4	36	34.4	32.8	31.2	29.6	28	28.4	28.8	29.2	29.6	30
	recycled (%)	45	46.0	47.0	48.0	49.0	50	50.0	50.0	50.0	50.0	50	52.0	54.0	56.0	58.0	60	60.0	60.0	60.0	60.0	60
hazardous	landfill (%)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	recovered (%)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	recycled (%)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

(1) ERM has assumed that the LATS target allowance remains constant at the 2020 value for the years beyond 2020

DATA_05: WASTE STREAM TONNAGES TO MEET TARGETS (Million Tonnes)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025

This first section of DATA_03 calculates if there is a LATS shortfall or suplus in each year. If there is a LATS shortfall (ie insufficient allowance to landfill non-diverted waste) then the model assumes that this extra waste is recycled/composted and r

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	Total MSW to be recovered and recycled/composted to meet target	0.104	0.117	0.130	0.145	0.159	0.175	0.193	0.213	0.233	0.253	0.275	0.285	0.297	0.308	0.320	0.332	0.338	0.343	0.349	0.356	0.362
	Total MSW not-diverted by targets	0.193	0.188	0.182	0.175	0.169	0.161	0.149	0.137	0.124	0.111	0.096	0.091	0.086	0.080	0.074	0.068	0.068	0.068	0.069	0.069	0.069
	Percentage of MSW that is biodegradable (% by weight)	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68
	Total BMW not-diverted by targets	0.131	0.128	0.124	0.119	0.115	0.110	0.102	0.093	0.084	0.075	0.066	0.062	0.058	0.054	0.050	0.046	0.046	0.046	0.047	0.047	0.047
	LATS shortfall (how much extra is landfilled above LATS target)	-0.005	-0.006	-0.004	-0.002	0.002	0.008	0.011	0.014	0.016	0.010	0.003	0.003	0.002	0.001	0.000	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
	Ratio of 'recovered' to 'recycled/composted' for target (%)	14%	17%	19%	20%	22%	23%	26%	28%	29%	31%	32%	33%	33%	33%	33%	34%	33%	32%	31%	30%	29%
	Extra MSW 'recovery' needed due to LATS shortfall	0.000	0.000	0.000	0.000	*0.000*	*0.002*	*0.003*	*0.004*	*0.005*	*0.003*	*0.001*	*0.001*	*0.001*	*0.000*	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Extra MSW 'recycling/composting' needed due to LATS shortfall	0.000	0.000	0.000	0.000	*0.002*	*0.006*	*0.008*	*0.010*	*0.012*	*0.007*	*0.002*	*0.002*	*0.001*	*0.001*	0.000	0.000	0.000	0.000	0.000	0.000	0.000

The section below in DATA_03 shows the tonnages by waste to meet targets.

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	Recycling and composting target	0.089	0.097	0.106	0.115	0.126	0.140	0.152	0.164	0.176	0.182	0.188	0.194	0.200	0.206	0.213	0.220	0.227	0.235	0.242	0.250	0.258
	Recovery target	0.015	0.019	0.024	0.029	0.035	0.042	0.052	0.063	0.073	0.082	0.090	0.094	0.098	0.103	0.107	0.112	0.110	0.109	0.107	0.105	0.103
	Non-hazardous landfill	0.193	0.188	0.182	0.175	0.166	0.154	0.139	0.123	0.108	0.100	0.093	0.088	0.084	0.079	0.074	0.068	0.068	0.068	0.069	0.069	0.069
	CHECK COUNTER (should be zero)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
c&i	Recycling and composting target	0.360	0.387	0.416	0.446	0.477	0.509	0.529	0.551	0.572	0.595	0.618	0.639	0.660	0.681	0.704	0.726	0.746	0.766	0.786	0.806	0.827
	Recovery target	0.126	0.131	0.136	0.141	0.147	0.153	0.166	0.180	0.194	0.209	0.225	0.230	0.236	0.242	0.248	0.254	0.252	0.249	0.247	0.244	0.242
	Non-hazardous landfill	0.414	0.404	0.393	0.382	0.369	0.356	0.343	0.328	0.313	0.297	0.281	0.271	0.262	0.251	0.241	0.230	0.225	0.220	0.215	0.209	0.204
	CHECK COUNTER (should be zero)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

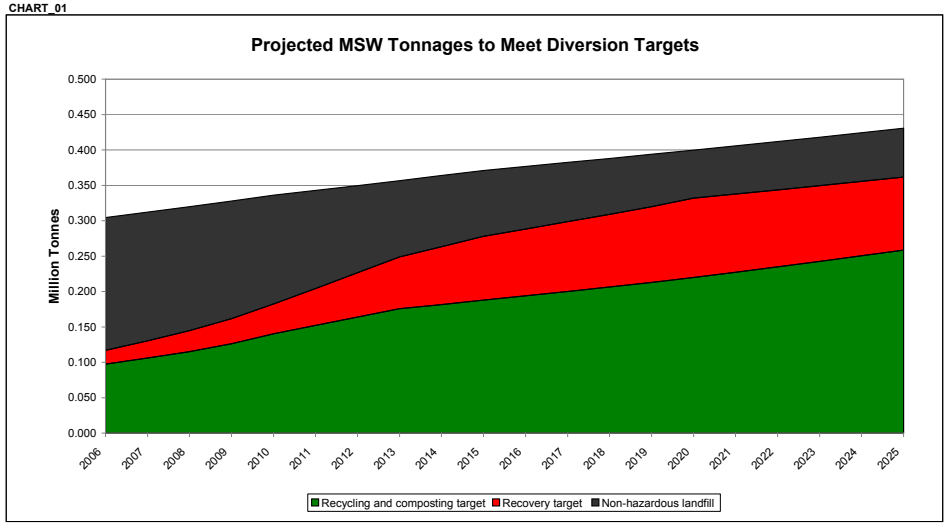
		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
c&d	Recycling target	0.320	0.327	0.334	0.341	0.348	0.356	0.356	0.356	0.356	0.356	0.356	0.370	0.384	0.398	0.412	0.427	0.427	0.427	0.427	0.427	0.427
	Recovery target	0.256	0.252	0.247	0.243	0.239	0.235	0.239	0.243	0.247	0.252	0.256	0.245	0.233	0.222	0.211	0.199	0.202	0.205	0.208	0.211	0.213
	Inert landfill	0.135	0.132	0.129	0.127	0.124	0.121	0.117	0.112	0.108	0.104	0.100	0.097	0.094	0.091	0.088	0.085	0.082	0.080	0.077	0.074	0.071
	CHECK COUNTER (should be zero)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
hazardous	Hazardous waste	0.011	0.012	0.012	0.012	0.013	0.013	0.013	0.013	0.014	0.014	0.014	0.014	0.015	0.015	0.015	0.015	0.016	0.016	0.016	0.016	0.016

DATA_06: TOTAL WASTE TONNAGES TO MEET TARGETS (Million Tonnes)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
MSW and C&I recycling and composting target	0.449	0.485	0.522	0.561	0.603	0.649	0.682	0.714	0.748	0.776	0.806	0.833	0.860	0.888	0.916	0.946	0.973	1.000	1.028	1.056	1.085
C&D recycling target	0.320	0.327	0.334	0.341	0.348	0.356	0.356	0.356	0.356	0.356	0.356	0.370	0.384	0.398	0.412	0.427	0.427	0.427	0.427	0.427	0.427
MSW and C&I recovery target	0.141	0.150	0.160	0.171	0.182	0.195	0.218	0.243	0.268	0.291	0.315	0.325	0.335	0.345	0.355	0.366	0.362	0.358	0.354	0.350	0.345
C&D recovery target	0.256	0.252	0.247	0.243	0.239	0.235	0.239	0.243	0.247	0.252	0.256	0.245	0.233	0.222	0.211	0.199	0.202	0.205	0.208	0.211	0.213
Non-hazardous landfill	0.607	0.591	0.575	0.557	0.536	0.510	0.481	0.451	0.421	0.398	0.374	0.360	0.345	0.330	0.315	0.298	0.293	0.288	0.283	0.278	0.272
Inert landfill	0.135	0.132	0.129	0.127	0.124	0.121	0.117	0.112	0.108	0.104	0.100	0.097	0.094	0.091	0.088	0.085	0.082	0.080	0.077	0.074	0.071
Hazardous waste	0.011	0.012	0.012	0.012	0.013	0.013	0.013	0.013	0.014	0.014	0.014	0.014	0.015	0.015	0.015	0.015	0.016	0.016	0.016	0.016	0.016

Buckinghamshire

CHART_01



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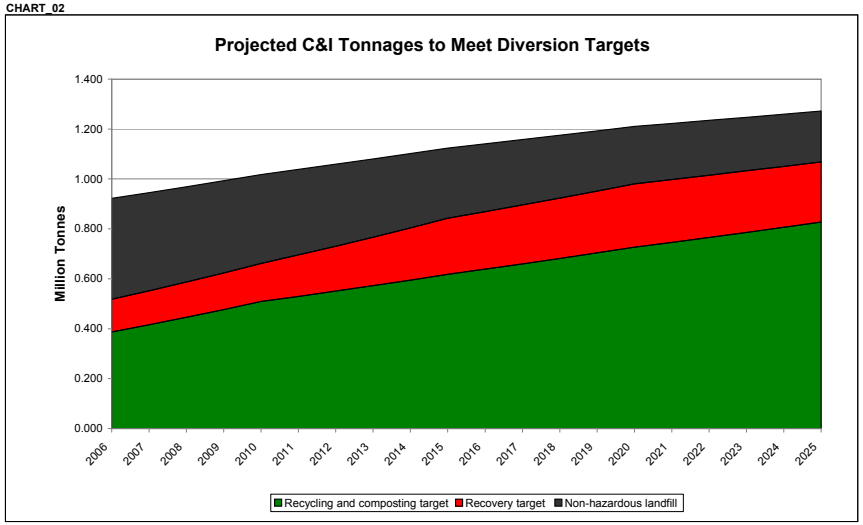

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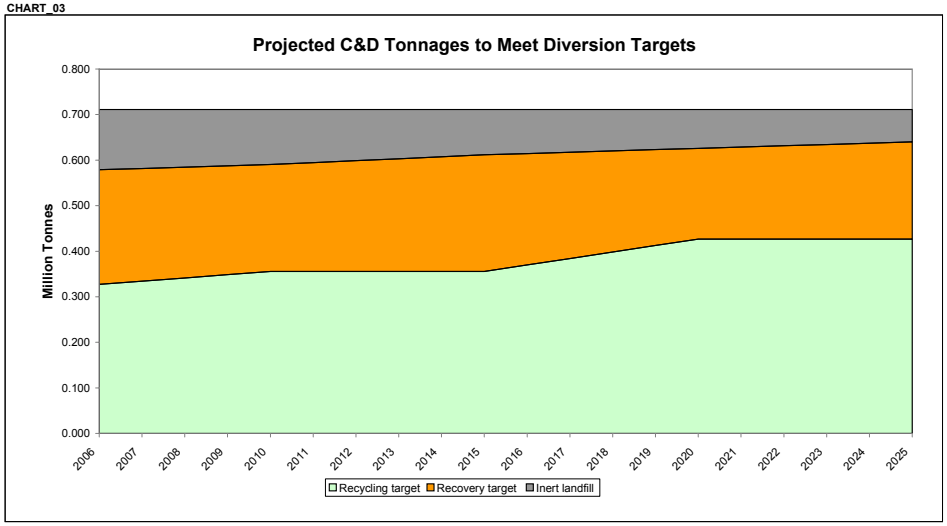

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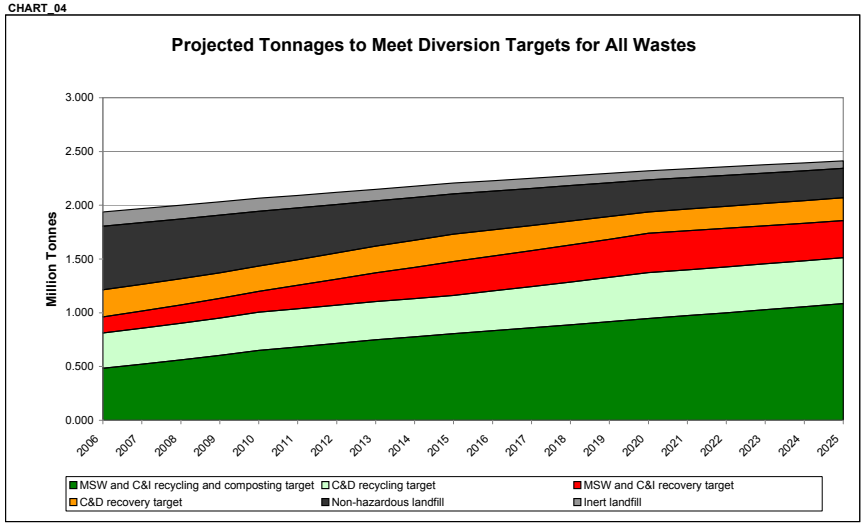
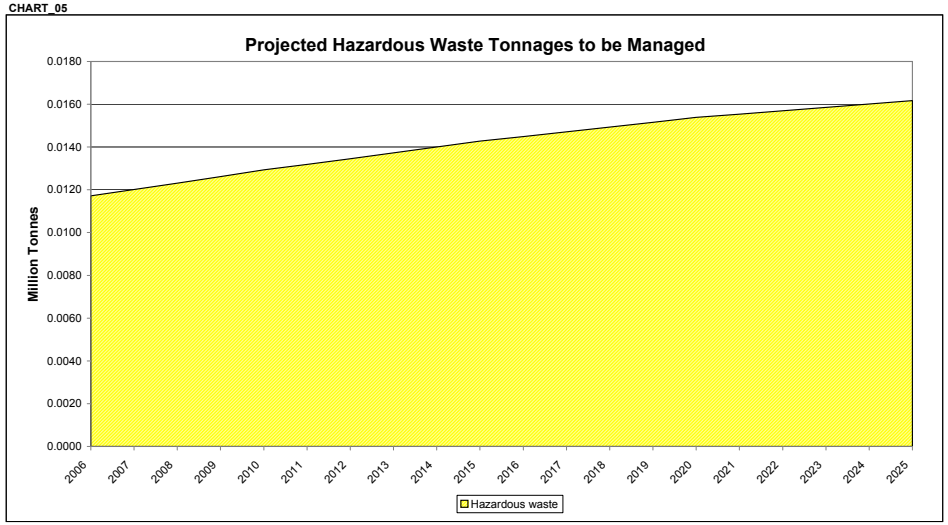


Buckinghamshire

CHART_05



DATA_07: EXISTING/PLANNED CAPACITY FOR RECYCLING, RECOVERY AND LANDFILLING AND TOTAL WASTE TONNAGES TO EACH DISPOSAL ROUTE (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
MSW and C&I recovery																					
MSW and C&I incineration (non-specialist)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
MSW and C&I treatment	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186
Total existing/planned MSW and C&I recovery capacity	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186
Total MSW waste required to meet target	0.015	0.019	0.024	0.029	0.035	0.042	0.052	0.063	0.073	0.082	0.090	0.094	0.098	0.103	0.107	0.112	0.110	0.109	0.107	0.105	0.103
Total C&I waste required to meet target	0.126	0.131	0.136	0.141	0.147	0.153	0.166	0.180	0.194	0.209	0.225	0.230	0.236	0.242	0.248	0.254	0.252	0.249	0.247	0.244	0.242
Surplus/deficit capacity	0.046	0.036	0.026	0.016	0.004	-0.008	-0.032	-0.056	-0.081	-0.105	-0.128	-0.138	-0.148	-0.158	-0.169	-0.180	-0.176	-0.172	-0.168	-0.163	-0.159
MSW and C&I recycling and composting																					
MSW and C&I recycling	0.221	0.221	0.221	0.221	0.221	0.221	0.221	0.221	0.221	0.221	0.221	0.221	0.221	0.221	0.221	0.221	0.221	0.221	0.221	0.221	0.221
MSW and C&I transfer	0.379	0.379	0.379	0.379	0.379	0.379	0.379	0.379	0.379	0.379	0.379	0.379	0.379	0.379	0.379	0.379	0.379	0.379	0.379	0.379	0.379
Total existing/planned MSW and C&I composting capacity	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053
(1) Total existing/planned MSW and C&I recycling and composting capacity (Baseline: 20% of transfer capacity delivers recycling)	0.350	0.350	0.350	0.350	0.350	0.350	0.350	0.350	0.350	0.350	0.350	0.350	0.350	0.350	0.350	0.350	0.350	0.350	0.350	0.350	0.350
(2) Total existing/planned MSW and C&I recycling and composting capacity (Sensitivity: 5% of transfer capacity delivers recycling)	0.293	0.293	0.293	0.293	0.293	0.293	0.293	0.293	0.293	0.293	0.293	0.293	0.293	0.293	0.293	0.293	0.293	0.293	0.293	0.293	0.293
Total MSW waste required to meet recycling and composting target	0.089	0.097	0.106	0.115	0.126	0.140	0.152	0.164	0.176	0.182	0.188	0.194	0.200	0.206	0.213	0.220	0.227	0.235	0.242	0.250	0.258
Total C&I waste required to meet recycling and composting target	0.360	0.387	0.416	0.446	0.477	0.509	0.529	0.551	0.572	0.595	0.618	0.639	0.660	0.681	0.704	0.726	0.746	0.766	0.786	0.806	0.827
Surplus/deficit capacity (Baseline: 20% of transfer capacity delivers recycling)	-0.099	-0.135	-0.172	-0.211	-0.253	-0.300	-0.332	-0.365	-0.399	-0.427	-0.456	-0.483	-0.510	-0.538	-0.567	-0.597	-0.624	-0.651	-0.679	-0.707	-0.736
Surplus/deficit capacity (Sensitivity: 5% of transfer capacity delivers recycling)	-0.156	-0.192	-0.229	-0.268	-0.310	-0.357	-0.389	-0.422	-0.455	-0.484	-0.513	-0.540	-0.567	-0.595	-0.624	-0.654	-0.680	-0.708	-0.736	-0.764	-0.793
C&D recycling																					
Total existing/planned C&D recycling capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total waste required to meet C&D recycling target	0.320	0.327	0.334	0.341	0.348	0.356	0.356	0.356	0.356	0.356	0.356	0.370	0.384	0.398	0.412	0.427	0.427	0.427	0.427	0.427	0.427
Surplus/deficit capacity	-0.320	-0.327	-0.334	-0.341	-0.348	-0.356	-0.356	-0.356	-0.356	-0.356	-0.356	-0.370	-0.384	-0.398	-0.412	-0.427	-0.427	-0.427	-0.427	-0.427	-0.427
C&D recovery																					
(3) REGIONAL total existing/planned C&D recovery capacity	1.877	1.794	1.710	1.627	1.544	1.460	1.439	1.418	1.398	1.377	1.356	1.325	1.293	1.262	1.231	1.199	1.220	1.241	1.262	1.283	1.304
Sub-regional total waste required to meet C&D recovery target	0.256	0.252	0.247	0.243	0.239	0.235	0.239	0.243	0.247	0.252	0.256	0.245	0.233	0.222	0.211	0.199	0.202	0.205	0.208	0.211	0.213
Surplus/deficit capacity	1.621	1.542	1.463	1.384	1.305	1.225	1.200	1.175	1.150	1.125	1.100	1.080	1.060	1.040	1.020	1.000	1.018	1.036	1.054	1.072	1.090
Hazardous waste recycling																					
Total existing/planned hazardous waste recycling capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total hazardous waste to be recycled	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Surplus/deficit capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hazardous waste recovery																					
Total existing/planned hazardous waste recovery capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total hazardous waste to be recovered	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Surplus/deficit capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Non-hazardous landfill																					
Available non-hazardous landfill capacity (excluding residues from MSW and C&I recovery)		10.500	9.515	8.547	7.599	6.672	5.770	4.907	4.083	3.299	2.548	1.831	1.131	0.447	-0.220	-0.869	-1.499	-2.125	-2.747	-3.365	-3.979
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'Incineration (non-specialist)'		10.500	9.492	8.501	7.527	6.572	5.641	4.745	3.885	3.061	2.266	1.502	0.753	0.019	-0.699	-1.402	-2.087	-2.768	-3.443	-4.114	-4.780
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'MBT'		10.500	9.426	8.364	7.315	6.280	5.264	4.272	3.305	2.363	1.440	0.537	-0.355	-1.236	-2.106	-2.965	-3.811	-4.651	-5.484	-6.311	-7.131
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'RDF'		10.500	9.497	8.510	7.541	6.592	5.667	4.778	3.925	3.108	2.323	1.568	0.829	0.105	-0.603	-1.295	-1.969	-2.639	-3.304	-3.964	-4.620
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'treatment'		10.500	9.447	8.408	7.382	6.373	5.384	4.422	3.489	2.585	1.703	0.844	-0.002	-0.837	-1.658	-2.467	-3.263	-4.052	-4.835	-5.612	-6.383
Total MSW and C&I waste sent direct to non-hazardous landfill		0.591	0.575	0.557	0.536	0.510	0.481	0.451	0.421	0.398	0.374	0.360	0.345	0.330	0.315	0.298	0.293	0.288	0.283	0.278	0.272
Inert landfill																					
Available inert landfill capacity		25.700	25.568	25.438	25.312	25.188	25.067	24.950	24.838	24.730	24.626	24.527	24.430	24.336	24.245	24.157	24.071	23.989	23.909	23.832	23.758
Available inert landfill capacity assuming all MSW and C&I recovery by 'Incineration (non-specialist)'		25.700	25.545	25.392	25.239	25.088	24.938	24.789	24.640	24.492	24.344	24.198	24.052	23.908	23.765	23.624	23.484	23.347	23.213	23.084	22.957
Total C&D waste sent direct to inert landfill	0.135	0.132	0.129	0.127	0.124	0.121	0.117	0.112	0.108	0.104	0.100	0.097	0.094	0.091	0.088	0.085	0.082	0.080	0.077	0.074	0.071
Hazardous landfill																					
Available hazardous landfill capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total hazardous waste sent direct to hazardous landfill	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Other																					
Metal/ELV facility	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050
Ignored	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137	0.137
Closed	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

(1) ERM has assumed that 20% of the total 'transfer' capacity will deliver recycling capacity
(2) ERM has assumed that 5% of the total 'transfer' capacity will deliver recycling capacity
(3) Data for C&D recovery for landfill cover for the SE Region were sourced from the original MEL model, which sourced the data from Symonds (2001)
Note:

Buckinghamshire

DATA_08: RESIDUE RATES (%)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Recovery residues (% by weight)																					
MSW and C&I incineration (non-specialist) - bottom ash	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
MSW and C&I incineration (non-specialist) - fly ash	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
MSW and C&I to MBT	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59
MSW and C&I to RDF	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
MSW and C&I treatment - non-hazardous	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45
MSW and C&I treatment - hazardous	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Hazardous waste recovery	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Recycling residues (% by weight)																					
MSW and C&I recycling	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
MSW and C&I transfer	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
MSW and C&I composting	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
C&D recycling	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Hazardous waste recycling	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Other																					
Metal/ELV facility	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Ignored	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Closed	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Note: All residues are calculated on the amount of waste arising not on the maount of capacity available. This is complaince with the self-sufficiency requirements of PPS10.

DATA_09: TOTAL RESIDUE (Million Tonnes)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Recovery residues (of waste managed):																					
MSW and C&I incineration (non-specialist) - bottom ash	0.042	0.045	0.048	0.051	0.055	0.058	0.065	0.073	0.080	0.087	0.094	0.097	0.100	0.103	0.107	0.110	0.109	0.107	0.106	0.105	0.104
MSW and C&I incineration (non-specialist) - fly ash	0.004	0.005	0.005	0.005	0.005	0.006	0.007	0.007	0.008	0.009	0.009	0.010	0.010	0.010	0.011	0.011	0.011	0.011	0.011	0.010	0.010
MSW and C&I to MBT	0.083	0.089	0.095	0.101	0.107	0.115	0.129	0.143	0.158	0.172	0.186	0.192	0.197	0.203	0.210	0.216	0.214	0.211	0.209	0.206	0.204
MSW and C&I to RDF	0.017	0.018	0.019	0.021	0.022	0.023	0.026	0.029	0.032	0.035	0.038	0.039	0.040	0.041	0.043	0.044	0.043	0.043	0.042	0.042	0.041
MSW and C&I treatment - non-hazardous	0.063	0.068	0.072	0.077	0.082	0.088	0.098	0.109	0.120	0.131	0.142	0.146	0.151	0.155	0.160	0.165	0.163	0.161	0.159	0.157	0.155
MSW and C&I treatment - hazardous	0.007	0.008	0.008	0.009	0.009	0.010	0.011	0.012	0.013	0.015	0.016	0.016	0.017	0.017	0.018	0.018	0.018	0.018	0.018	0.017	0.017
Hazardous waste recovery	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Recycling residues (of waste managed):																					
MSW and C&I recycling and composting	0.067	0.073	0.078	0.084	0.090	0.097	0.102	0.107	0.112	0.116	0.121	0.125	0.129	0.133	0.137	0.142	0.146	0.150	0.154	0.158	0.163
C&D recycling	0.032	0.033	0.033	0.034	0.035	0.036	0.036	0.036	0.036	0.036	0.036	0.037	0.038	0.040	0.041	0.043	0.043	0.043	0.043	0.043	0.043
Hazardous waste recycling	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Note: All residues are calculated on the amount of waste arising not on the maount of capacity available. This is complaince with the self-sufficiency requirements of PPS10.

DATA_10: TOTAL MSW AND C&I RESIDUE FROM RECYCLING SENT TO NON-HAZARDOUS LANDFILL (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Total MSW and C&I recycling and composting residue sent to non-hazardous landfill	0.099	0.105	0.112	0.118	0.125	0.133	0.138	0.143	0.148	0.152	0.156	0.162	0.167	0.173	0.179	0.185	0.189	0.193	0.197	0.201	0.205

DATA_11: TOTAL MSW AND C&I RESIDUE FROM RECOVERY SENT TO NON-HAZARDOUS LANDFILL AND C&D RECYCLING (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
SCENARIO 1 - Assumes all recovery is by 'Non-specialist incineration' (based on total recovery capacity)																					
(1) Total MSW and C&I residue sent to non-hazardous landfill assuming all MSW and C&I recovery by 'Non-specialist incineration'	0.021	0.023	0.024	0.026	0.027	0.029	0.033	0.036	0.040	0.044	0.047	0.049	0.050	0.052	0.053	0.055	0.054	0.054	0.053	0.052	0.052
(1) Total MSW and C&I residue sent to inert landfill assuming all MSW and C&I recovery by 'Non-specialist incineration'	0.021	0.023	0.024	0.026	0.027	0.029	0.033	0.036	0.040	0.044	0.047	0.049	0.050	0.052	0.053	0.055	0.054	0.054	0.053	0.052	0.052
SCENARIO 2 - Assumes all recovery is by 'MBT' (based on total recovery capacity)																					
Total MSW and C&I residue sent to non-hazardous landfill	0.083	0.089	0.095	0.101	0.107	0.115	0.129	0.143	0.158	0.172	0.186	0.192	0.197	0.203	0.210	0.216	0.214	0.211	0.209	0.206	0.204
SCENARIO 3 - Assumes all recovery is by 'RDF' (based on total recovery capacity)																					
Total MSW and C&I residue sent to non-hazardous landfill	0.017	0.018	0.019	0.021	0.022	0.023	0.026	0.029	0.032	0.035	0.038	0.039	0.040	0.041	0.043	0.044	0.043	0.043	0.042	0.042	0.041
SCENARIO 4 - Assumes all recovery is by 'treatment' (based on total recovery capacity)																					
Total MSW and C&I residue sent to non-hazardous landfill	0.063	0.068	0.072	0.077	0.082	0.088	0.098	0.109	0.120	0.131	0.142	0.146	0.151	0.155	0.160	0.165	0.163	0.161	0.159	0.157	0.155

(1) It was assumed that 50% of residue from 'non-specialist incineration' is sent to non-hazardous landfill and 50% is sent to inert landfill. In the original model assumptions developed MEL 50% was assumed to go to C&D recycling, rather than to inert landfi

DATA_12: TONNAGES OF C&D REUSED ON NON-HAZARDOUS AND INERT LANDFILL (Million Tonnes)

(1) C&D reused on landfill sites	39	%
(1) C&D reused on exempt sites	61	%
(1) C&D reused on landfill sites sent to 'non-haz landfill'	30	%
(1) C&D reused on landfill sites sent to 'inert landfill'	70	%

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
c&d	Total C&D reused on non-hazardous landfill	0.030	0.029	0.029	0.028	0.028	0.027	0.028	0.028	0.029	0.029	0.030	0.028	0.027	0.026	0.024	0.023	0.024	0.024	0.024	0.024	0.025
	Total reused C&D on inert landfill	0.070	0.068	0.067	0.066	0.065	0.064	0.065	0.066	0.067	0.068	0.070	0.066	0.063	0.060	0.057	0.054	0.055	0.056	0.056	0.057	0.058

(1) C&D reuse rates based on original model assumptions developed MEL
NOTE: C&D reuse on inert and non-hazardous landfill is not included within the charts because it has been assumed that data supplied by each sub-region has accounted for C&D reuse as an engineering material.

DATA_13: TOTAL MSW AND C&I RESIDUE FROM RECYCLING SENT TO HAZARDOUS LANDFILL (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Total MSW and C&I recycling and composting residue sent to hazardous landfill	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

DATA_14: TOTAL MSW AND C&I RESIDUE FROM RECOVERY SENT TO HAZARDOUS LANDFILL (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
SCENARIO 1 - Assumes all recovery is by 'Non-specialist incineration' (based on total recovery capacity)																					
Total MSW and C&I residue sent to hazardous landfill assuming all MSW and C&I recovery by 'Non-specialist incineration'	0.004	0.005	0.005	0.005	0.005	0.006	0.007	0.007	0.008	0.009	0.009	0.010	0.010	0.010	0.011	0.011	0.011	0.011	0.011	0.010	0.010
SCENARIO 2 - Assumes all recovery is by 'MBT' (based on total recovery capacity)																					
Total MSW and C&I residue sent to hazardous landfill	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SCENARIO 3 - Assumes all recovery is by 'RDF' (based on total recovery capacity)																					
Total MSW and C&I residue sent to hazardous landfill	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SCENARIO 4 - Assumes all recovery is by 'treatment' (based on total recovery capacity)																					
Total MSW and C&I residue sent to hazardous landfill	0.007	0.008	0.008	0.009	0.009	0.010	0.011	0.012	0.013	0.015	0.016	0.016	0.017	0.017	0.018	0.018	0.018	0.018	0.018	0.017	0.017

NOTE: This element of the model is redundant. There is currently no hazardous waste capacity figures to generate a chart of managed waste versus available capacity.

DATA_15: TOTAL HAZARDOUS WASTE RESIDUE FROM RECOVERY AND RECYCLING SENT TO HAZARDOUS LANDFILL (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Total hazardous waste recycling and recovery residue sent to hazardous landfill	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Buckinghamshire

CHART_06

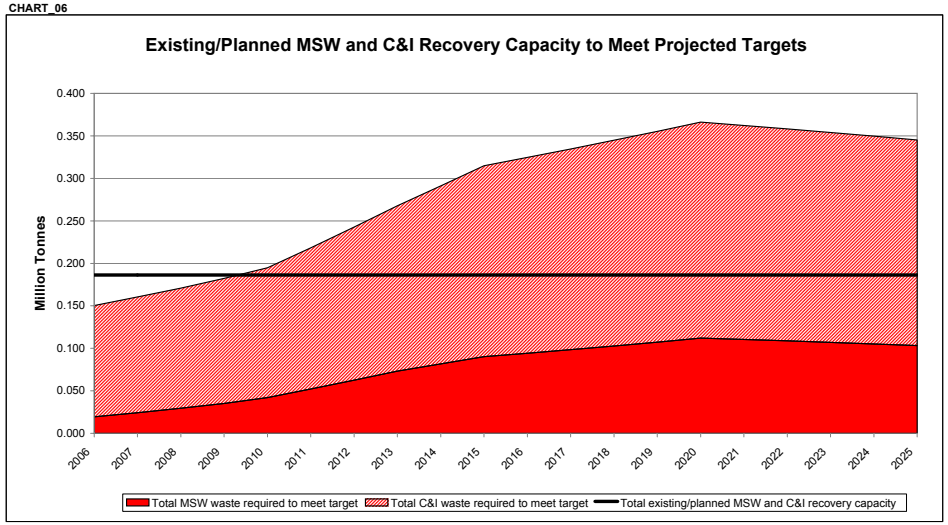


CHART_07

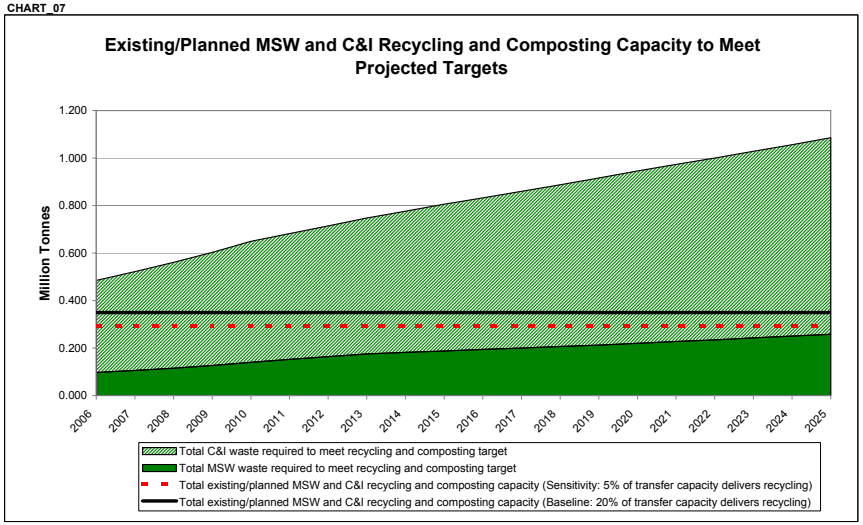
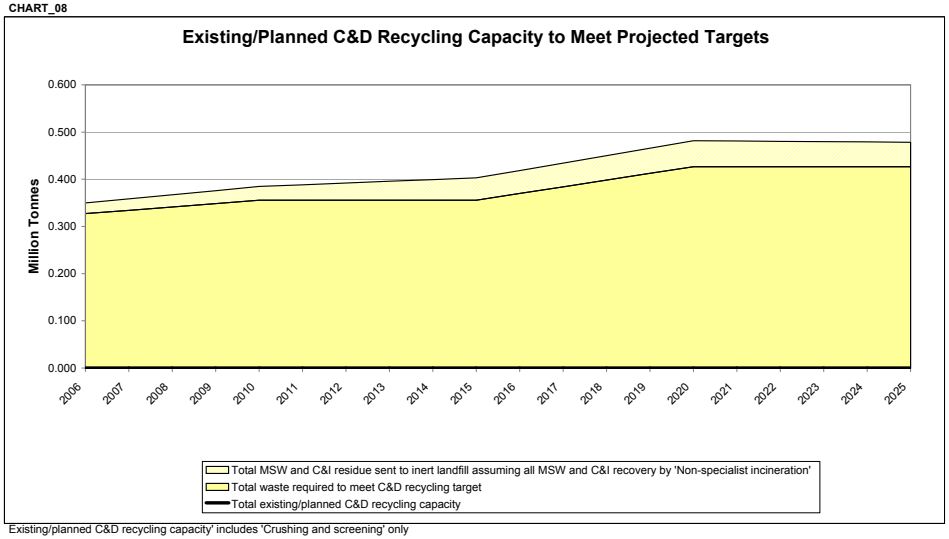


CHART_08



Existing/planned C&D recycling capacity' includes 'Crushing and screening' only
NOTE: This capacity does not represent the quantity of material that is recycled.
NOTE: Residue from MSW and C&I recovery is based on existing/planned capacity (not waste tonnage to meet recovery target)

Buckinghamshire

CHART_09

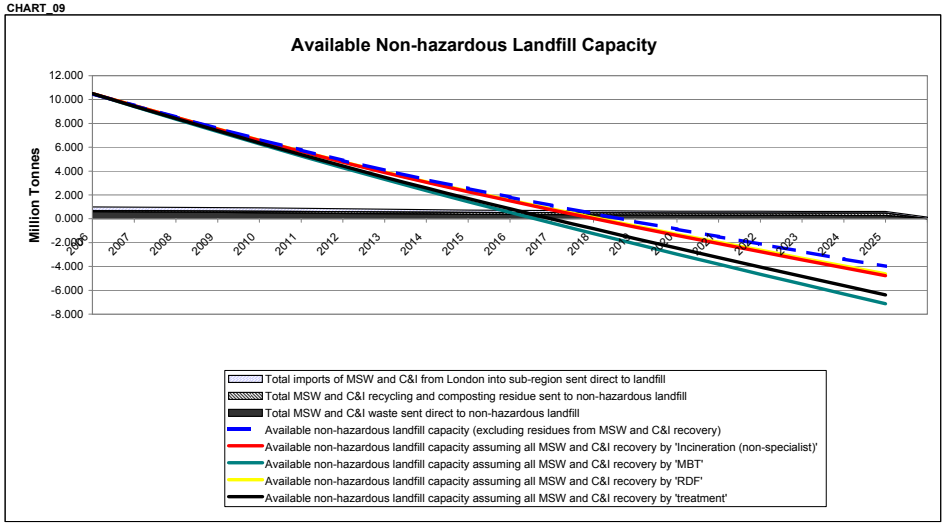
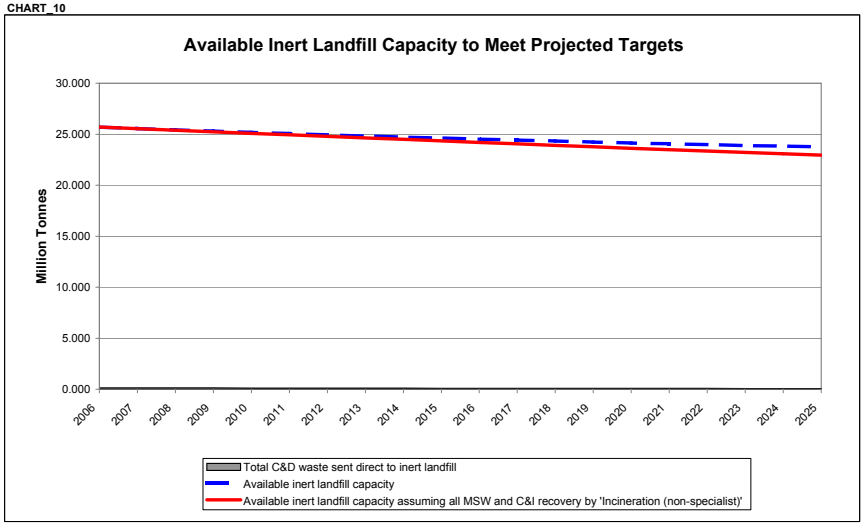


CHART_10



NOTE: The graph assumes that the baseline capacity for non-hazardous landfill has accounted for C&D reuse as a landfill engineering material.

East Sussex

SUMMARY DATA AND RESULTS FOR EAST SUSSEX

MANAGED WASTE USED TO GENERATE RESULTS (Million Tonnes)	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	0.419	0.429	0.440	0.451	0.462	0.472	0.481	0.491	0.500	0.510	0.518	0.526	0.534	0.542	0.550	0.558	0.567	0.575	0.584	0.592
msw - imports from london that are sent direct to non-hazardous landfill	0.073	0.071	0.069	0.067	0.065	0.061	0.058	0.054	0.051	0.047	0.045	0.043	0.041	0.039	0.037	0.036	0.036	0.035	0.034	0.033
c&i	0.414	0.424	0.435	0.445	0.457	0.466	0.475	0.485	0.494	0.504	0.512	0.519	0.527	0.535	0.543	0.548	0.554	0.559	0.565	0.571
c&i - imports from london that are sent direct to non-hazardous landfill	0.072	0.070	0.068	0.066	0.064	0.061	0.057	0.054	0.050	0.046	0.044	0.042	0.041	0.039	0.037	0.036	0.035	0.034	0.033	0.032
c&d	0.370	0.370	0.370	0.370	0.370	0.370	0.370	0.370	0.370	0.370	0.370	0.370	0.370	0.370	0.370	0.370	0.370	0.370	0.370	0.370
hazardous	0.024	0.025	0.025	0.026	0.026	0.027	0.027	0.028	0.029	0.029	0.030	0.030	0.030	0.031	0.031	0.032	0.032	0.032	0.033	0.033

WASTE STREAM TONNAGES TO MEET TARGETS (Million Tonnes)		2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	LATS shortfall (how much extra is landfilled above LATS target)	*0.054*	*0.052*	*0.050*	*0.049*	*0.049*	*0.049*	*0.049*	*0.048*	*0.038*	*0.028*	*0.026*	*0.024*	*0.021*	*0.019*	*0.016*	*0.016*	*0.016*	*0.017*	*0.017*	*0.017*
	Recycling and composting target	0.179	0.188	0.198	0.210	0.223	0.235	0.247	0.260	0.267	0.274	0.282	0.289	0.297	0.305	0.313	0.323	0.334	0.345	0.356	0.368
	Recovery target	0.036	0.043	0.051	0.059	0.067	0.080	0.094	0.108	0.120	0.132	0.137	0.142	0.148	0.154	0.159	0.157	0.155	0.152	0.150	0.147
	Non-hazardous landfill	0.204	0.198	0.191	0.183	0.173	0.156	0.140	0.123	0.114	0.105	0.099	0.094	0.089	0.083	0.077	0.078	0.078	0.078	0.078	0.078
c&i	Recycling and composting target	0.174	0.187	0.200	0.214	0.228	0.238	0.247	0.257	0.267	0.277	0.287	0.296	0.306	0.316	0.326	0.335	0.343	0.352	0.362	0.371
	Recovery target	0.059	0.061	0.063	0.066	0.068	0.075	0.081	0.087	0.094	0.101	0.103	0.106	0.109	0.111	0.114	0.113	0.112	0.111	0.110	0.108
	Non-hazardous landfill	0.181	0.176	0.171	0.166	0.160	0.154	0.147	0.141	0.133	0.126	0.122	0.117	0.113	0.108	0.103	0.101	0.099	0.096	0.094	0.091
c&d	Recycling target	0.170	0.174	0.178	0.181	0.185	0.185	0.185	0.185	0.185	0.185	0.192	0.200	0.207	0.215	0.222	0.222	0.222	0.222	0.222	0.222
	Recovery target	0.131	0.129	0.127	0.124	0.122	0.124	0.127	0.129	0.131	0.133	0.127	0.121	0.115	0.110	0.104	0.105	0.107	0.108	0.110	0.111
	Inert landfill	0.069	0.067	0.066	0.064	0.063	0.061	0.058	0.056	0.054	0.052	0.050	0.049	0.047	0.046	0.044	0.043	0.041	0.040	0.038	0.037
hazardous	Hazardous waste	0.024	0.025	0.025	0.026	0.026	0.027	0.027	0.028	0.029	0.029	0.030	0.030	0.030	0.031	0.031	0.032	0.032	0.032	0.033	0.033

Note: If there is a LATS shortfall, denoted by a positive number, (ie insufficient allowance to landfill non-diverted waste) then the model assumes that this extra waste is recycled/composted and recovered at the same ratio as the regional targets for recycling/composting and recovery for that year.

EXISTING/PLANNED CAPACITY FOR RECYCLING, RECOVERY AND LANDFILLING AND TOTAL WASTE TONNAGES TO EACH DISPOSAL ROUTE (Million Tonnes)		2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
MSW and C&I recovery																					
	Total existing/planned MSW and C&I recovery capacity	0.307	0.307	0.307	0.307	0.307	0.307	0.307	0.307	0.307	0.307	0.307	0.307	0.307	0.307	0.307	0.307	0.307	0.307	0.307	0.307
	Surplus/deficit capacity	0.212	0.203	0.193	0.182	0.172	0.152	0.132	0.111	0.093	0.074	0.067	0.059	0.050	0.042	0.034	0.037	0.040	0.044	0.048	0.051
MSW and C&I recycling and composting																					
	Total existing/planned MSW and C&I recycling and composting capacity (Baseline: 20% of transfer capacity delivers recycling)	0.359	0.359	0.359	0.359	0.359	0.359	0.359	0.359	0.359	0.359	0.359	0.359	0.359	0.359	0.359	0.359	0.359	0.359	0.359	0.359
	Total existing/planned MSW and C&I recycling and composting capacity (Sensitivity: 5% of transfer capacity delivers recycling)	0.112	0.112	0.112	0.112	0.112	0.112	0.112	0.112	0.112	0.112	0.112	0.112	0.112	0.112	0.112	0.112	0.112	0.112	0.112	0.112
	Surplus/deficit capacity (Baseline: 20% of transfer capacity delivers recycling)	0.007	-0.015	-0.039	-0.064	-0.092	-0.113	-0.135	-0.157	-0.174	-0.192	-0.209	-0.226	-0.244	-0.262	-0.280	-0.299	-0.318	-0.338	-0.359	-0.379
	Surplus/deficit capacity (Sensitivity: 5% of transfer capacity delivers recycling)	-0.240	-0.262	-0.286	-0.311	-0.339	-0.360	-0.382	-0.404	-0.421	-0.439	-0.456	-0.473	-0.491	-0.508	-0.527	-0.546	-0.565	-0.585	-0.606	-0.626
C&D recycling																					
	Total existing/planned C&D recycling capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Surplus/deficit capacity	-0.170	-0.174	-0.178	-0.181	-0.185	-0.185	-0.185	-0.185	-0.185	-0.185	-0.192	-0.200	-0.207	-0.215	-0.222	-0.222	-0.222	-0.222	-0.222	-0.222
C&D recovery																					
	REGIONAL total existing/planned C&D recovery capacity	1.794	1.710	1.627	1.544	1.460	1.439	1.418	1.398	1.377	1.356	1.325	1.293	1.262	1.231	1.199	1.220	1.241	1.262	1.283	1.304
	Surplus/deficit capacity	1.663	1.582	1.500	1.419	1.338	1.315	1.292	1.269	1.246	1.223	1.197	1.172	1.147	1.121	1.096	1.115	1.135	1.154	1.173	1.193
Hazardous waste recycling																					
	Total existing/planned hazardous waste recycling capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Surplus/deficit capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hazardous waste recovery																					
	Total existing/planned hazardous waste recovery capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Surplus/deficit capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Non-hazardous landfill																					
	Available non-hazardous landfill capacity (excluding residues from MSW and C&I recovery)	0.825	0.226	-0.363	-0.940	-1.503	-2.051	-2.573	-3.067	-3.534	-3.980	-4.405	-4.820	-5.225	-5.619	-6.002	-6.375	-6.747	-7.117	-7.487	-7.856
	Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'Incineration (non-specialist)'	0.825	0.211	-0.393	-0.987	-1.568	-2.137	-2.682	-3.203	-3.699	-4.177	-4.637	-5.088	-5.530	-5.962	-6.386	-6.799	-7.211	-7.622	-8.031	-8.439
	Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'MBT'	0.825	0.170	-0.480	-1.124	-1.761	-2.389	-3.002	-3.600	-4.182	-4.754	-5.316	-5.873	-6.424	-6.970	-7.510	-8.044	-8.575	-9.103	-9.628	-10.149
	Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'RDF'	0.825	0.214	-0.387	-0.977	-1.555	-2.120	-2.660	-3.176	-3.666	-4.138	-4.591	-5.034	-5.469	-5.894	-6.309	-6.714	-7.119	-7.521	-7.922	-8.322
	Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'treatment'	0.825	0.183	-0.452	-1.080	-1.700	-2.309	-2.900	-3.473	-4.028	-4.571	-5.100	-5.623	-6.140	-6.649	-7.152	-7.648	-8.141	-8.632	-9.120	-9.605
Inert landfill																					
	Available inert landfill capacity	0.000	-0.069	-0.136	-0.202	-0.266	-0.329	-0.390	-0.448	-0.505	-0.559	-0.611	-0.661	-0.710	-0.757	-0.803	-0.847	-0.890	-0.932	-0.972	-1.010
	Available inert landfill capacity assuming all MSW and C&I recovery by 'Incineration (non-specialist)'	0.000	-0.083	-0.166	-0.249	-0.332	-0.415	-0.499	-0.584	-0.669	-0.756	-0.842	-0.929	-1.015	-1.100	-1.186	-1.272	-1.355	-1.436	-1.516	-1.593
Hazardous landfill																					
	Available hazardous landfill capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Note: The model does not contain data for the management of hazardous waste.

DATA_01: ARISINGS AND GROWTH RATES OF MSW, C&I AND HAZARDOUS WASTE (Million Tonnes)		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	Arisings of MSW in baseline year																					
	(1) Forecast regional level growth rate of MSW - per year (%)	3.0%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%
	(1) Forecast regional level growth rate of MSW - cumulative (%)	106%	109%	111%	114%	117%	120%	122%	125%	127%	130%	133%	135%	137%	139%	141%	143%	145%	147%	149%	152%	154%
	Total arisings of MSW using regional growth forecasts	0.409	0.419	0.429	0.440	0.451	0.462	0.472	0.481	0.491	0.500	0.510	0.518	0.526	0.534	0.542	0.550	0.558	0.567	0.575	0.584	0.592
	(1) Forecast sub-regional growth rate of MSW - per year (%)	2.0%	2.0%	1.0%	1.0%	1.0%	1.0%	1.0%	0.5%	0.5%	0.5%	0.5%	0.5%	0.5%	0.5%	0.5%	0.5%	0.5%	0.5%	0.5%	0.5%	0.5%
	(1) Forecast sub-regional level growth rate of MSW - cumulative (%)	104%	106%	107%	108%	109%	110%	112%	112%	113%	113%	114%	114%	115%	115%	116%	117%	117%	118%	118%	119%	120%
	Total arisings of MSW using sub-regional growth forecasts	0.401	0.409	0.413	0.417	0.421	0.425	0.430	0.432	0.434	0.436	0.438	0.440	0.443	0.445	0.447	0.449	0.452	0.454	0.456	0.458	0.461
c&i	Arisings of C&I in baseline year																					
	(1) Forecast regional level growth rate of C&I - per year (%)	3.3%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.0%	1.0%	1.0%	1.0%	1.0%
	(1) Forecast regional level growth rate of C&I - cumulative (%)	114%	117%	119%	122%	126%	129%	131%	134%	137%	139%	142%	144%	146%	149%	151%	153%	155%	156%	158%	159%	161%
	Total arisings of C&I using regional growth forecasts	0.404	0.414	0.424	0.435	0.445	0.457	0.466	0.475	0.485	0.494	0.504	0.512	0.519	0.527	0.535	0.543	0.548	0.554	0.559	0.565	0.571
	(1) Forecast sub-regional level growth rate of C&I - per year (%)	0.7%	0.7%	0.7%	0.7%	0.7%	0.7%	0.7%	0.7%	0.7%	0.7%	0.7%	0.7%	0.7%	0.7%	0.7%	0.7%	0.7%	0.7%	0.7%	0.7%	0.7%
	(1) Forecast sub-regional level growth rate of C&I - cumulative (%)	103%	104%	104%	105%	106%	106%	107%	108%	109%	109%	110%	111%	112%	113%	113%	114%	115%	116%	117%	117%	118%
	Total arisings of C&I using sub-regional growth forecasts	0.365	0.367	0.370	0.373	0.375	0.378	0.380	0.383	0.386	0.388	0.391	0.394	0.397	0.399	0.402	0.405	0.408	0.411	0.414	0.417	0.419
hazardous	Arisings of hazardous waste in baseline year																					
	(2) Forecast regional level growth rate of hazardous waste - per year (%)	3.3%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.0%	1.0%	1.0%	1.0%	1.0%
	Forecast regional level growth rate of hazardous waste - cumulative (%)	107%	109%	112%	115%	118%	121%	123%	126%	128%	131%	133%	135%	137%	139%	141%	144%	145%	146%	148%	149%	151%
	Total arisings of hazardous waste	0.023	0.024	0.025	0.025	0.026	0.026	0.027	0.027	0.028	0.029	0.029	0.030	0.030	0.030	0.031	0.031	0.032	0.032	0.032	0.033	0.033
	(2) Forecast sub-regional level growth rate of hazardous waste - per year (%)	0.7%	0.7%	0.7%	0.7%	0.7%	0.7%	0.7%	0.7%	0.7%	0.7%	0.7%	0.7%	0.7%	0.7%	0.7%	0.7%	0.7%	0.7%	0.7%	0.7%	0.7%
	Forecast sub regional level growth rate of hazardous waste - cumulative (%)	101%	102%	103%	104%	104%	105%	106%	106%	107%	108%	109%	109%	110%	111%	112%	113%	113%	114%	115%	116%	117%
	Total arisings of hazardous waste	0.022	0.022	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.024	0.024	0.024	0.024	0.024	0.024	0.025	0.025	0.025	0.025	0.025	0.026
c&d	Total managed C&D in baseline year																					
	(3) Forecast regional-level growth rate of managed C&D - per year (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Forecast regional-level growth rate of managed C&D - cumulative (%)	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
	(3) Total managed of C&D for the sub-region	0.370	0.370	0.370	0.370	0.370	0.370	0.370	0.370	0.370	0.370	0.370	0.370	0.370	0.370	0.370	0.370	0.370	0.370	0.370	0.370	0.370

(1) Figures from SEERA updated waste capacity model by ERM in 2005.
(2) Baseline year of hazardous waste arisings is 2003 from EA Hazardous Waste Interrogator. www.environment-agency.gov.uk/apps/wastesurvey2/. ERM has assumed that growth in hazardous waste is equal to C&I waste.
(3) These data represent managed C&D waste in the sub-region, including all intra-regional and inter-regional movements. Growth is assumed to be zero from the orginal MEL study and updated modeted by ERM in 2005.
NOTE: C&D waste is not included in arisings because this was taken from survey data by Symonds 2001 which gave values for managed C&D waste.

East Sussex

Figure in blue represent data supplied by each sub-region for the new '2006 SEERA Capacity and Need Model'
Figures in orange represent managed waste that are used by the model to calculate results. These can be adjusted for different scenarios.

DATA_02: INTER REGIONAL MOVEMENTS OF MSW and C&I (Million Tonnes)		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw and c&i	Regional level imports of MSW and C&I waste into the SE region from London	1.76	1.716	1.672	1.628	1.584	1.54	1.454	1.368	1.282	1.196	1.11	1.064	1.018	0.972	0.926	0.88	0.86	0.84	0.82	0.8	0.78
	Proportion of regional MSW and C&I imports that go to the sub-region (%)	8.4%	8.4%	8.4%	8.4%	8.4%	8.4%	8.4%	8.4%	8.4%	8.4%	8.4%	8.4%	8.4%	8.4%	8.4%	8.4%	8.4%	8.4%	8.4%	8.4%	8.4%
	(1) Total imports of MSW and C&I from London into sub-region sent direct to landfill	0.148	0.144	0.140	0.137	0.133	0.129	0.122	0.115	0.108	0.100	0.093	0.089	0.086	0.082	0.078	0.074	0.072	0.071	0.069	0.067	0.066
msw	Proportion of total MSW and C&I imports that are MSW (%) - REGIONAL GROWTH FORECAST	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	51%	51%	51%	51%
	Total imports of MSW into the sub-region from London - REGIONAL GROWTH FORECAST	0.074	0.073	0.071	0.069	0.067	0.065	0.061	0.058	0.054	0.051	0.047	0.045	0.043	0.041	0.039	0.037	0.036	0.036	0.035	0.034	0.033
	Proportion of total MSW and C&I imports that are MSW (%) - SUB-REGIONAL GROWTH FORECAST	52%	53%	53%	53%	53%	53%	53%	53%	53%	53%	53%	53%	53%	53%	53%	53%	53%	52%	52%	52%	52%
	Total imports of MSW into the sub-region from London - SUB-REGIONAL GROWTH FORECAST	0.077	0.076	0.074	0.072	0.070	0.069	0.065	0.061	0.057	0.053	0.049	0.047	0.045	0.043	0.041	0.039	0.038	0.037	0.036	0.035	0.034
c&i	Proportion of total MSW and C&I imports that are C&I (%) - REGIONAL GROWTH FORECAST	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	49%	49%	49%	49%
	Total imports of C&I into the sub-region from London - REGIONAL GROWTH FORECAST	0.073	0.072	0.070	0.068	0.066	0.064	0.061	0.057	0.054	0.050	0.046	0.044	0.042	0.041	0.039	0.037	0.036	0.035	0.034	0.033	0.032
	Proportion of total MSW and C&I imports that are C&I (%) - SUB-REGIONAL GROWTH FORECAST	48%	47%	47%	47%	47%	47%	47%	47%	47%	47%	47%	47%	47%	47%	47%	47%	47%	48%	48%	48%	48%
	Total imports of C&I into the sub-region from London - SUB-REGIONAL GROWTH FORECAST	0.070	0.068	0.066	0.065	0.063	0.061	0.057	0.054	0.051	0.047	0.044	0.042	0.040	0.039	0.037	0.035	0.034	0.034	0.033	0.032	0.031

(1) Intra-regional and inter-regional movements have been excluded for MSW and C&I waste due to self-sufficiency requirements under PPS10, except for inter-regional movements from London into the sub-region. Apportionment from Policy W3 in the SEERA Plan. http://www.southeast-ra.gov.uk/southeastplan/plan/march_2006/core_document/009_seera_sep_d06.pdf
Note: Only a figure is available for total combined imports of MSW and C&I waste. ERM has assumed that imports of the seperate waste streams of MSW and C&I was split according to tonnage arisings of MSW and C&I in the sub-region.

DATA_03: MANAGED WASTE USED TO GENERATE RESULTS (Million Tonnes)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	0.409	0.419	0.429	0.440	0.451	0.462	0.472	0.481	0.491	0.500	0.510	0.518	0.526	0.534	0.542	0.550	0.558	0.567	0.575	0.584	0.592
msw - imports from london that are sent direct to non-hazardous landfill	0.074	0.073	0.071	0.069	0.067	0.065	0.061	0.058	0.054	0.051	0.047	0.045	0.043	0.041	0.039	0.037	0.036	0.036	0.035	0.034	0.033
c&i	0.404	0.414	0.424	0.435	0.445	0.457	0.466	0.475	0.485	0.494	0.504	0.512	0.519	0.527	0.535	0.543	0.548	0.554	0.559	0.565	0.571
c&i - imports from london that are sent direct to non-hazardous landfill	0.073	0.072	0.070	0.068	0.066	0.064	0.061	0.057	0.054	0.050	0.046	0.044	0.042	0.041	0.039	0.037	0.036	0.035	0.034	0.033	0.032
c&d	0.370	0.370	0.370	0.370	0.370	0.370	0.370	0.370	0.370	0.370	0.370	0.370	0.370	0.370	0.370	0.370	0.370	0.370	0.370	0.370	0.370
hazardous	0.023	0.024	0.025	0.025	0.026	0.026	0.027	0.027	0.028	0.029	0.029	0.030	0.030	0.030	0.031	0.031	0.032	0.032	0.032	0.033	0.033

DATA_04: TARGETS (% or Million Tonnes)		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	(1) landfill (Mt)	0.124	0.122	0.118	0.114	0.109	0.102	0.091	0.079	0.068	0.065	0.062	0.059	0.056	0.053	0.050	0.048	0.048	0.048	0.048	0.048	0.048
	recovered (%)	5	6.4	7.8	9.2	10.6	12	14.4	16.8	19.2	21.6	24	24.8	25.6	26.4	27.2	28	27.2	26.4	25.6	24.8	24
	recycled and composted (%)	30	32.0	34.0	36.0	38.0	40	42.0	44.0	46.0	48.0	50	51.0	52.0	53.0	54.0	55	56.0	57.0	58.0	59.0	60
c&i	recovered (%)	14	14.2	14.4	14.6	14.8	15	16.0	17.0	18.0	19.0	20	20.2	20.4	20.6	20.8	21	20.6	20.2	19.8	19.4	19
	recycled and composted (%)	40	42.0	44.0	46.0	48.0	50	51.0	52.0	53.0	54.0	55	56.0	57.0	58.0	59.0	60	61.0	62.0	63.0	64.0	65
c&d	recovered (%)	36	35.4	34.8	34.2	33.6	33	33.6	34.2	34.8	35.4	36	34.4	32.8	31.2	29.6	28	28.4	28.8	29.2	29.6	30
	recycled (%)	45	46.0	47.0	48.0	49.0	50	50.0	50.0	50.0	50.0	50	52.0	54.0	56.0	58.0	60	60.0	60.0	60.0	60.0	60
hazardous	landfill (%)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	recovered (%)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	recycled (%)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

(1) ERM has assumed that the LATS target allowance remains constant at the 2020 value for the years beyond 2020

DATA_05: WASTE STREAM TONNAGES TO MEET TARGETS (Million Tonnes)

This first section of DATA_03 calculates if there is a LATS shortfall or suplus in each year. If there is a LATS shortfall (ie insufficient allowance to landfill non-diverted waste) then the model assumes that this extra waste is recycled/composted and r

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	Total MSW to be recovered and recycled/composted to meet target	0.143	0.161	0.179	0.199	0.219	0.240	0.266	0.292	0.320	0.348	0.378	0.393	0.408	0.424	0.440	0.456	0.464	0.472	0.481	0.489	0.498
	Total MSW not-diverted by targets	0.266	0.258	0.250	0.241	0.232	0.222	0.206	0.189	0.171	0.152	0.133	0.125	0.118	0.110	0.102	0.093	0.094	0.094	0.094	0.095	0.095
	Percentage of MSW that is biodegradable (% by weight)	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68
	Total BMW not-diverted by targets	0.181	0.175	0.170	0.164	0.158	0.151	0.140	0.128	0.116	0.103	0.090	0.085	0.080	0.075	0.069	0.064	0.064	0.064	0.064	0.064	0.064
	LATS shortfall (how much extra is landfilled above LATS target)	0.057	0.054	0.052	0.050	0.049	0.049	0.049	0.049	0.048	0.038	0.028	0.026	0.024	0.021	0.019	0.016	0.016	0.016	0.017	0.017	0.017
	Ratio of 'recovered' to 'recycled/composted' for target (%)	14%	17%	19%	20%	22%	23%	26%	28%	29%	31%	32%	33%	33%	33%	33%	34%	33%	32%	31%	30%	29%
	Extra MSW 'recovery' needed due to LATS shortfall	*0.008*	*0.009*	*0.010*	*0.010*	*0.011*	*0.011*	*0.013*	*0.014*	*0.014*	*0.012*	*0.009*	*0.009*	*0.008*	*0.007*	*0.006*	*0.005*	*0.005*	*0.005*	*0.005*	*0.005*	*0.005*
	Extra MSW 'recycling/composting' needed due to LATS shortfall	*0.049*	*0.045*	*0.042*	*0.040*	*0.038*	*0.038*	*0.037*	*0.035*	*0.034*	*0.026*	*0.019*	*0.018*	*0.016*	*0.014*	*0.012*	*0.011*	*0.011*	*0.011*	*0.011*	*0.012*	*0.012*

The section below in DATA_03 shows the tonnages by waste to meet targets.

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	Recycling and composting target	0.171	0.179	0.188	0.198	0.210	0.223	0.235	0.247	0.260	0.267	0.274	0.282	0.289	0.297	0.305	0.313	0.323	0.334	0.345	0.356	0.368
	Recovery target	0.029	0.036	0.043	0.051	0.059	0.067	0.080	0.094	0.108	0.120	0.132	0.137	0.142	0.148	0.154	0.159	0.157	0.155	0.152	0.150	0.147
	Non-hazardous landfill	0.209	0.204	0.198	0.191	0.183	0.173	0.156	0.140	0.123	0.114	0.105	0.099	0.094	0.089	0.083	0.077	0.078	0.078	0.078	0.078	0.078
	CHECK COUNTER (should be zero)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
c&i	Recycling and composting target	0.161	0.174	0.187	0.200	0.214	0.228	0.238	0.247	0.257	0.267	0.277	0.287	0.296	0.306	0.316	0.326	0.335	0.343	0.352	0.362	0.371
	Recovery target	0.056	0.059	0.061	0.063	0.066	0.068	0.075	0.081	0.087	0.094	0.101	0.103	0.106	0.109	0.111	0.114	0.113	0.112	0.111	0.110	0.108
	Non-hazardous landfill	0.186	0.181	0.176	0.171	0.166	0.160	0.154	0.147	0.141	0.133	0.126	0.122	0.117	0.113	0.108	0.103	0.101	0.099	0.096	0.094	0.091
	CHECK COUNTER (should be zero)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
c&d	Recycling target	0.167	0.170	0.174	0.178	0.181	0.185	0.185	0.185	0.185	0.185	0.185	0.192	0.200	0.207	0.215	0.222	0.222	0.222	0.222	0.222	0.222
	Recovery target	0.133	0.131	0.129	0.127	0.124	0.122	0.124	0.127	0.129	0.131	0.133	0.127	0.121	0.115	0.110	0.104	0.105	0.107	0.108	0.110	0.111
	Inert landfill	0.070	0.069	0.067	0.066	0.064	0.063	0.061	0.058	0.056	0.054	0.052	0.050	0.049	0.047	0.046	0.044	0.043	0.041	0.040	0.038	0.037
	CHECK COUNTER (should be zero)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
hazardous	Hazardous waste	0.023	0.024	0.025	0.025	0.026	0.026	0.027	0.027	0.028	0.029	0.029	0.030	0.030	0.030	0.031	0.031	0.032	0.032	0.032	0.033	0.033

DATA_06: TOTAL WASTE TONNAGES TO MEET TARGETS (Million Tonnes)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
MSW and C&I recycling and composting target	0.333	0.353	0.374	0.398	0.424	0.451	0.472	0.494	0.516	0.534	0.551	0.568	0.585	0.603	0.621	0.639	0.658	0.678	0.697	0.718	0.738
C&D recycling target	0.167	0.170	0.174	0.178	0.181	0.185	0.185	0.185	0.185	0.185	0.185	0.192	0.200	0.207	0.215	0.222	0.222	0.222	0.222	0.222	0.222
MSW and C&I recovery target	0.085	0.095	0.104	0.114	0.124	0.135	0.155	0.175	0.196	0.214	0.232	0.240	0.248	0.257	0.265	0.273	0.270	0.267	0.263	0.259	0.255
C&D recovery target	0.133	0.131	0.129	0.127	0.124	0.122	0.124	0.127	0.129	0.131	0.133	0.127	0.121	0.115	0.110	0.104	0.105	0.107	0.108	0.110	0.111
Non-hazardous landfill	0.394	0.385	0.375	0.362	0.348	0.333	0.310	0.287	0.263	0.247	0.231	0.221	0.211	0.201	0.191	0.181	0.178	0.176	0.174	0.172	0.169
Inert landfill	0.070	0.069	0.067	0.066	0.064	0.063	0.061	0.058	0.056	0.054	0.052	0.050	0.049	0.047	0.046	0.044	0.043	0.041	0.040	0.038	0.037
Hazardous waste	0.023	0.024	0.025	0.025	0.026	0.026	0.027	0.027	0.028	0.029	0.029	0.030	0.030	0.030	0.031	0.031	0.032	0.032	0.032	0.033	0.033

East Sussex

CHART_01

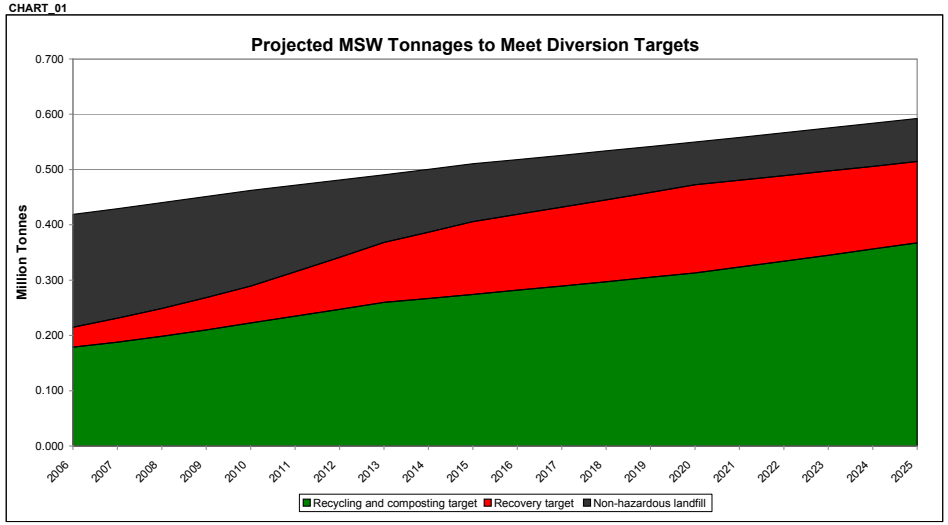


CHART_02

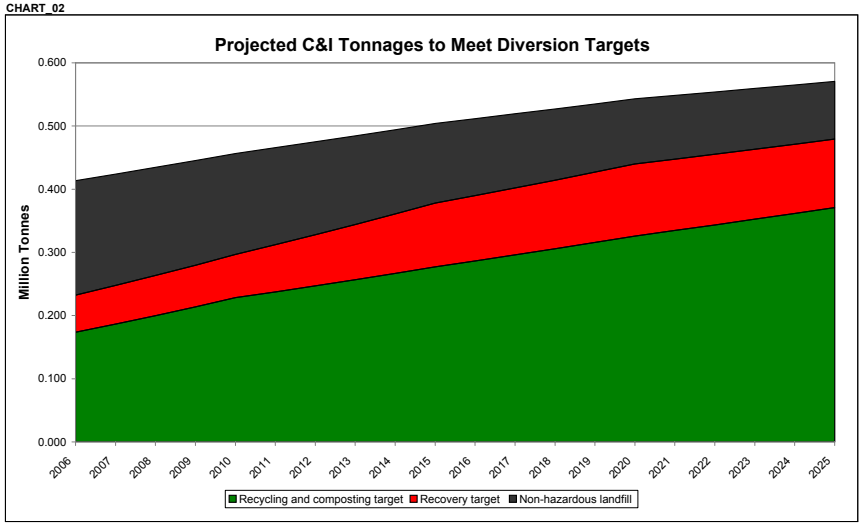
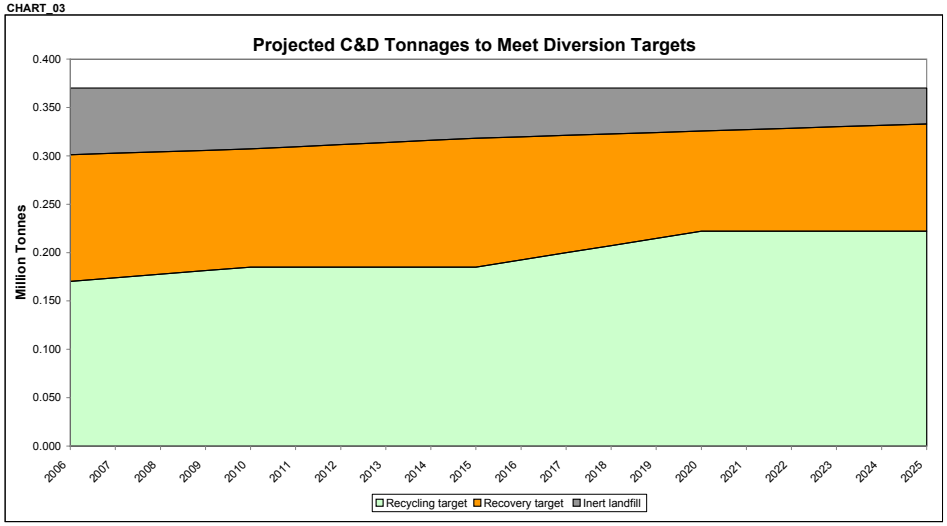


CHART_03



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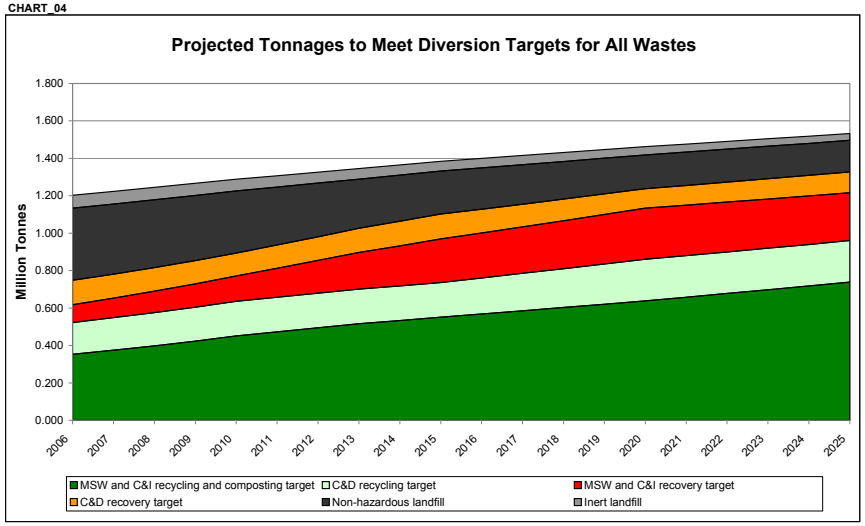
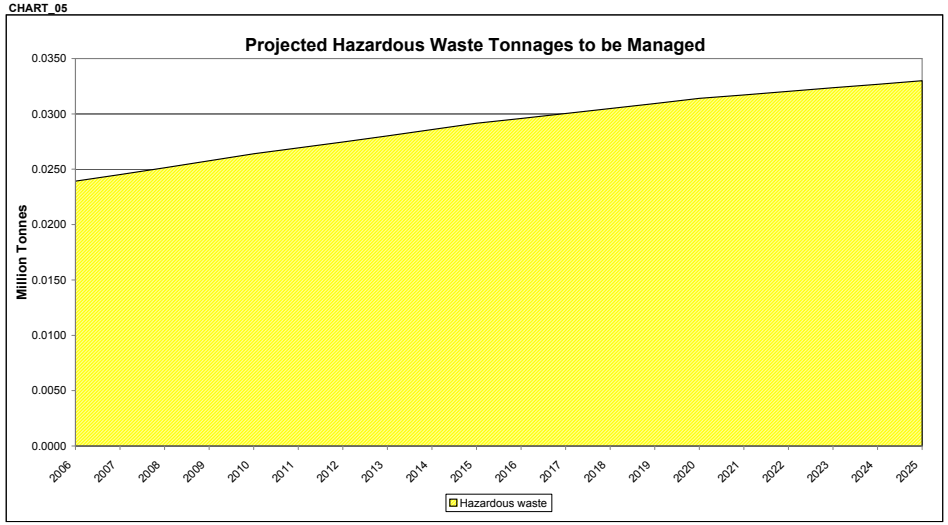


East Sussex

CHART_05



DATA_07: EXISTING/PLANNED CAPACITY FOR RECYCLING, RECOVERY AND LANDFILLING AND TOTAL WASTE TONNAGES TO EACH DISPOSAL ROUTE (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
MSW and C&I recovery																					
MSW and C&I incineration (non-specialist)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
MSW and C&I treatment	0.306	0.306	0.306	0.306	0.306	0.306	0.306	0.306	0.306	0.306	0.306	0.306	0.306	0.306	0.306	0.306	0.306	0.306	0.306	0.306	0.306
Total existing/planned MSW and C&I recovery capacity	0.307	0.307	0.307	0.307	0.307	0.307	0.307	0.307	0.307	0.307	0.307	0.307	0.307	0.307	0.307	0.307	0.307	0.307	0.307	0.307	0.307
Total MSW waste required to meet target	0.029	0.036	0.043	0.051	0.059	0.067	0.080	0.094	0.108	0.120	0.132	0.137	0.142	0.148	0.154	0.159	0.157	0.155	0.152	0.150	0.147
Total C&I waste required to meet target	0.056	0.059	0.061	0.063	0.066	0.068	0.075	0.081	0.087	0.094	0.101	0.103	0.106	0.109	0.111	0.114	0.113	0.112	0.111	0.110	0.108
Surplus/deficit capacity	0.222	0.212	0.203	0.193	0.182	0.172	0.152	0.132	0.111	0.093	0.074	0.067	0.059	0.050	0.042	0.034	0.037	0.040	0.044	0.048	0.051
MSW and C&I recycling and composting																					
MSW and C&I recycling	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
MSW and C&I transfer	1.646	1.646	1.646	1.646	1.646	1.646	1.646	1.646	1.646	1.646	1.646	1.646	1.646	1.646	1.646	1.646	1.646	1.646	1.646	1.646	1.646
Total existing/planned MSW and C&I composting capacity	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030
(1) Total existing/planned MSW and C&I recycling and composting capacity (Baseline: 20% of transfer capacity delivers recycling)	0.359	0.359	0.359	0.359	0.359	0.359	0.359	0.359	0.359	0.359	0.359	0.359	0.359	0.359	0.359	0.359	0.359	0.359	0.359	0.359	0.359
(2) Total existing/planned MSW and C&I recycling and composting capacity (Sensitivity: 5% of transfer capacity delivers recycling)	0.112	0.112	0.112	0.112	0.112	0.112	0.112	0.112	0.112	0.112	0.112	0.112	0.112	0.112	0.112	0.112	0.112	0.112	0.112	0.112	0.112
Total MSW waste required to meet recycling and composting target	0.171	0.179	0.188	0.198	0.210	0.223	0.235	0.247	0.260	0.267	0.274	0.282	0.289	0.297	0.305	0.313	0.323	0.334	0.345	0.356	0.368
Total C&I waste required to meet recycling and composting target	0.161	0.174	0.187	0.200	0.214	0.228	0.238	0.247	0.257	0.267	0.277	0.287	0.296	0.306	0.316	0.326	0.335	0.343	0.352	0.362	0.371
Surplus/deficit capacity (Baseline: 20% of transfer capacity delivers recycling)	0.026	0.007	-0.015	-0.039	-0.064	-0.092	-0.113	-0.135	-0.157	-0.174	-0.192	-0.209	-0.226	-0.244	-0.262	-0.280	-0.299	-0.318	-0.338	-0.359	-0.379
Surplus/deficit capacity (Sensitivity: 5% of transfer capacity delivers recycling)	-0.220	-0.240	-0.262	-0.286	-0.311	-0.339	-0.360	-0.382	-0.404	-0.421	-0.439	-0.456	-0.473	-0.491	-0.508	-0.527	-0.546	-0.565	-0.585	-0.606	-0.626
C&D recycling																					
Total existing/planned C&D recycling capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total waste required to meet C&D recycling target	0.167	0.170	0.174	0.178	0.181	0.185	0.185	0.185	0.185	0.185	0.185	0.192	0.200	0.207	0.215	0.222	0.222	0.222	0.222	0.222	0.222
Surplus/deficit capacity	-0.167	-0.170	-0.174	-0.178	-0.181	-0.185	-0.185	-0.185	-0.185	-0.185	-0.185	-0.192	-0.200	-0.207	-0.215	-0.222	-0.222	-0.222	-0.222	-0.222	-0.222
C&D recovery																					
(3) REGIONAL total existing/planned C&D recovery capacity	1.877	1.794	1.710	1.627	1.544	1.460	1.439	1.418	1.398	1.377	1.356	1.325	1.293	1.262	1.231	1.199	1.220	1.241	1.262	1.283	1.304
Sub-regional total waste required to meet C&D recovery target	0.133	0.131	0.129	0.127	0.124	0.122	0.124	0.127	0.129	0.131	0.133	0.127	0.121	0.115	0.110	0.104	0.105	0.107	0.108	0.110	0.111
Surplus/deficit capacity	1.744	1.663	1.582	1.500	1.419	1.338	1.315	1.292	1.269	1.246	1.223	1.197	1.172	1.147	1.121	1.096	1.115	1.135	1.154	1.173	1.193
Hazardous waste recycling																					
Total existing/planned hazardous waste recycling capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total hazardous waste to be recycled	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Surplus/deficit capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hazardous waste recovery																					
Total existing/planned hazardous waste recovery capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total hazardous waste to be recovered	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Surplus/deficit capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Non-hazardous landfill																					
Available non-hazardous landfill capacity (excluding residues from MSW and C&I recovery)		0.825	0.226	-0.363	-0.940	-1.503	-2.051	-2.573	-3.067	-3.534	-3.980	-4.405	-4.820	-5.225	-5.619	-6.002	-6.375	-6.747	-7.117	-7.487	-7.856
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'Incineration (non-specialist)'		0.825	0.211	-0.393	-0.987	-1.568	-2.137	-2.682	-3.203	-3.699	-4.177	-4.637	-5.088	-5.530	-5.962	-6.386	-6.799	-7.211	-7.622	-8.031	-8.439
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'MBT'		0.825	0.170	-0.480	-1.124	-1.761	-2.389	-3.002	-3.600	-4.182	-4.754	-5.316	-5.873	-6.424	-6.970	-7.510	-8.044	-8.575	-9.103	-9.628	-10.149
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'RDF'		0.825	0.214	-0.387	-0.977	-1.555	-2.120	-2.660	-3.176	-3.666	-4.138	-4.591	-5.034	-5.469	-5.894	-6.309	-6.714	-7.119	-7.521	-7.922	-8.322
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'treatment'		0.825	0.183	-0.452	-1.080	-1.700	-2.309	-2.900	-3.473	-4.028	-4.571	-5.100	-5.623	-6.140	-6.649	-7.152	-7.648	-8.141	-8.632	-9.120	-9.605
Total MSW and C&I waste sent direct to non-hazardous landfill		0.385	0.375	0.362	0.348	0.333	0.310	0.287	0.263	0.247	0.231	0.221	0.211	0.201	0.191	0.181	0.178	0.176	0.174	0.172	0.169
Inert landfill																					
Available inert landfill capacity		0.000	-0.069	-0.136	-0.202	-0.266	-0.329	-0.390	-0.448	-0.505	-0.559	-0.611	-0.661	-0.710	-0.757	-0.803	-0.847	-0.890	-0.932	-0.972	-1.010
Available inert landfill capacity assuming all MSW and C&I recovery by 'Incineration (non-specialist)'		0.000	-0.083	-0.166	-0.249	-0.332	-0.415	-0.499	-0.584	-0.669	-0.756	-0.842	-0.929	-1.015	-1.100	-1.186	-1.272	-1.355	-1.436	-1.516	-1.593
Total C&D waste sent direct to inert landfill	0.070	0.069	0.067	0.066	0.064	0.063	0.061	0.058	0.056	0.054	0.052	0.050	0.049	0.047	0.046	0.044	0.043	0.041	0.040	0.038	0.037
Hazardous landfill																					
Available hazardous landfill capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total hazardous waste sent direct to hazardous landfill	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Other																					
Metal/ELV facility	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500	0.500
Ignored	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032	0.032
Closed	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

(1) ERM has assumed that 20% of the total 'transfer' capacity will deliver recycling capacity
(2) ERM has assumed that 5% of the total 'transfer' capacity will deliver recycling capacity
(3) Data for C&D recovery for landfill cover for the SE Region were sourced from the original MEL model, which sourced the data from Symonds (2001)
Note:

East Sussex

DATA_08: RESIDUE RATES (%)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Recovery residues (% by weight)																					
MSW and C&I incineration (non-specialist) - bottom ash	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
MSW and C&I incineration (non-specialist) - fly ash	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
MSW and C&I to MBT	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59
MSW and C&I to RDF	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
MSW and C&I treatment - non-hazardous	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45
MSW and C&I treatment - hazardous	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Hazardous waste recovery	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Recycling residues (% by weight)																					
MSW and C&I recycling	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
MSW and C&I transfer	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
MSW and C&I composting	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
C&D recycling	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Hazardous waste recycling	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Other																					
Metal/ELV facility	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Ignored	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Closed	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Note: All residues are calculated on the amount of waste arising not on the maount of capacity available. This is complaince with the self-sufficiency requirements of PPS10.

DATA_09: TOTAL RESIDUE (Million Tonnes)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Recovery residues (of waste managed):																					
MSW and C&I incineration (non-specialist) - bottom ash	0.026	0.028	0.031	0.034	0.037	0.041	0.046	0.053	0.059	0.064	0.070	0.072	0.075	0.077	0.079	0.082	0.081	0.080	0.079	0.078	0.077
MSW and C&I incineration (non-specialist) - fly ash	0.003	0.003	0.003	0.003	0.004	0.004	0.005	0.005	0.006	0.006	0.007	0.007	0.007	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
MSW and C&I to MBT	0.050	0.056	0.061	0.067	0.073	0.080	0.091	0.103	0.115	0.126	0.137	0.142	0.147	0.151	0.156	0.161	0.159	0.157	0.155	0.153	0.151
MSW and C&I to RDF	0.010	0.011	0.012	0.014	0.015	0.016	0.019	0.021	0.023	0.026	0.028	0.029	0.030	0.031	0.032	0.033	0.032	0.032	0.032	0.031	0.031
MSW and C&I treatment - non-hazardous	0.038	0.043	0.047	0.051	0.056	0.061	0.070	0.079	0.088	0.096	0.105	0.108	0.112	0.115	0.119	0.123	0.122	0.120	0.118	0.117	0.115
MSW and C&I treatment - hazardous	0.004	0.005	0.005	0.006	0.006	0.007	0.008	0.009	0.010	0.011	0.012	0.012	0.012	0.013	0.013	0.014	0.014	0.013	0.013	0.013	0.013
Hazardous waste recovery	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Recycling residues (of waste managed):																					
MSW and C&I recycling and composting	0.050	0.053	0.056	0.060	0.064	0.068	0.071	0.074	0.077	0.080	0.083	0.085	0.088	0.090	0.093	0.096	0.099	0.102	0.105	0.108	0.111
C&D recycling	0.017	0.017	0.017	0.018	0.018	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.020	0.021	0.021	0.022	0.022	0.022	0.022	0.022	0.022
Hazardous waste recycling	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Note: All residues are calculated on the amount of waste arising not on the maount of capacity available. This is complaince with the self-sufficiency requirements of PPS10.

DATA_10: TOTAL MSW AND C&I RESIDUE FROM RECYCLING SENT TO NON-HAZARDOUS LANDFILL (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Total MSW and C&I recycling and composting residue sent to non-hazardous landfill	0.067	0.070	0.074	0.077	0.082	0.086	0.089	0.093	0.096	0.099	0.101	0.104	0.108	0.111	0.115	0.118	0.121	0.124	0.127	0.130	0.133

DATA_11: TOTAL MSW AND C&I RESIDUE FROM RECOVERY SENT TO NON-HAZARDOUS LANDFILL AND C&D RECYCLING (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
SCENARIO 1 - Assumes all recovery is by 'Non-specialist incineration' (based on total recovery capacity)																					
(1) Total MSW and C&I residue sent to non-hazardous landfill assuming all MSW and C&I recovery by 'Non-specialist incineration'	0.013	0.014	0.016	0.017	0.019	0.020	0.023	0.026	0.029	0.032	0.035	0.036	0.037	0.038	0.040	0.041	0.041	0.040	0.039	0.039	0.038
(1) Total MSW and C&I residue sent to inert landfill assuming all MSW and C&I recovery by 'Non-specialist incineration'	0.013	0.014	0.016	0.017	0.019	0.020	0.023	0.026	0.029	0.032	0.035	0.036	0.037	0.038	0.040	0.041	0.041	0.040	0.039	0.039	0.038
SCENARIO 2 - Assumes all recovery is by 'MBT' (based on total recovery capacity)																					
Total MSW and C&I residue sent to non-hazardous landfill	0.050	0.056	0.061	0.067	0.073	0.080	0.091	0.103	0.115	0.126	0.137	0.142	0.147	0.151	0.156	0.161	0.159	0.157	0.155	0.153	0.151
SCENARIO 3 - Assumes all recovery is by 'RDF' (based on total recovery capacity)																					
Total MSW and C&I residue sent to non-hazardous landfill	0.010	0.011	0.012	0.014	0.015	0.016	0.019	0.021	0.023	0.026	0.028	0.029	0.030	0.031	0.032	0.033	0.032	0.032	0.032	0.031	0.031
SCENARIO 4 - Assumes all recovery is by 'treatment' (based on total recovery capacity)																					
Total MSW and C&I residue sent to non-hazardous landfill	0.038	0.043	0.047	0.051	0.056	0.061	0.070	0.079	0.088	0.096	0.105	0.108	0.112	0.115	0.119	0.123	0.122	0.120	0.118	0.117	0.115

(1) It was assumed that 50% of residue from 'non-specialist incineration' is sent to non-hazardous landfill and 50% is sent to inert landfill. In the original model assumptions developed MEL 50% was assumed to go to C&D recycling, rather than to inert landfi

DATA_12: TONNAGES OF C&D REUSED ON NON-HAZARDOUS AND INERT LANDFILL (Million Tonnes)

(1) C&D reused on landfill sites	39	%
(1) C&D reused on exempt sites	61	%
(1) C&D reused on landfill sites sent to 'non-haz landfill'	30	%
(1) C&D reused on landfill sites sent to 'inert landfill'	70	%

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
c&d	Total C&D reused on non-hazardous landfill	0.016	0.015	0.015	0.015	0.014	0.014	0.014	0.015	0.015	0.015	0.016	0.015	0.014	0.013	0.013	0.012	0.012	0.012	0.013	0.013	0.013
	Total reused C&D on inert landfill	0.036	0.036	0.035	0.034	0.034	0.033	0.034	0.034	0.035	0.036	0.036	0.035	0.033	0.031	0.030	0.028	0.029	0.029	0.029	0.030	0.030

(1) C&D reuse rates based on original model assumptions developed MEL
NOTE: C&D reuse on inert and non-hazardous landfill is not included within the charts because it has been assumed that data supplied by each sub-region has accounted for C&D reuse as an engineering material.

DATA_13: TOTAL MSW AND C&I RESIDUE FROM RECYCLING SENT TO HAZARDOUS LANDFILL (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Total MSW and C&I recycling and composting residue sent to hazardous landfill	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

DATA_14: TOTAL MSW AND C&I RESIDUE FROM RECOVERY SENT TO HAZARDOUS LANDFILL (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
SCENARIO 1 - Assumes all recovery is by 'Non-specialist incineration' (based on total recovery capacity)																					
Total MSW and C&I residue sent to hazardous landfill assuming all MSW and C&I recovery by 'Non-specialist incineration'	0.003	0.003	0.003	0.003	0.004	0.004	0.005	0.005	0.006	0.006	0.007	0.007	0.007	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
SCENARIO 2 - Assumes all recovery is by 'MBT' (based on total recovery capacity)																					
Total MSW and C&I residue sent to hazardous landfill	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SCENARIO 3 - Assumes all recovery is by 'RDF' (based on total recovery capacity)																					
Total MSW and C&I residue sent to hazardous landfill	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SCENARIO 4 - Assumes all recovery is by 'treatment' (based on total recovery capacity)																					
Total MSW and C&I residue sent to hazardous landfill	0.004	0.005	0.005	0.006	0.006	0.007	0.008	0.009	0.010	0.011	0.012	0.012	0.012	0.013	0.013	0.014	0.014	0.013	0.013	0.013	0.013

NOTE: This element of the model is redundant. There is currently no hazardous waste capacity figures to generate a chart of managed waste versus available capacity.

DATA_15: TOTAL HAZARDOUS WASTE RESIDUE FROM RECOVERY AND RECYCLING SENT TO HAZARDOUS LANDFILL (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Total hazardous waste recycling and recovery residue sent to hazardous landfill	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

East Sussex

CHART_06

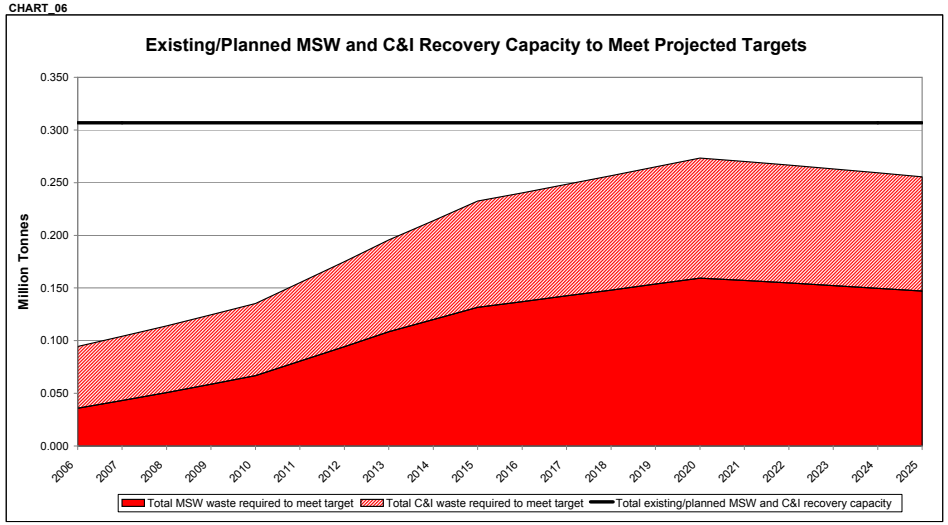


CHART_07

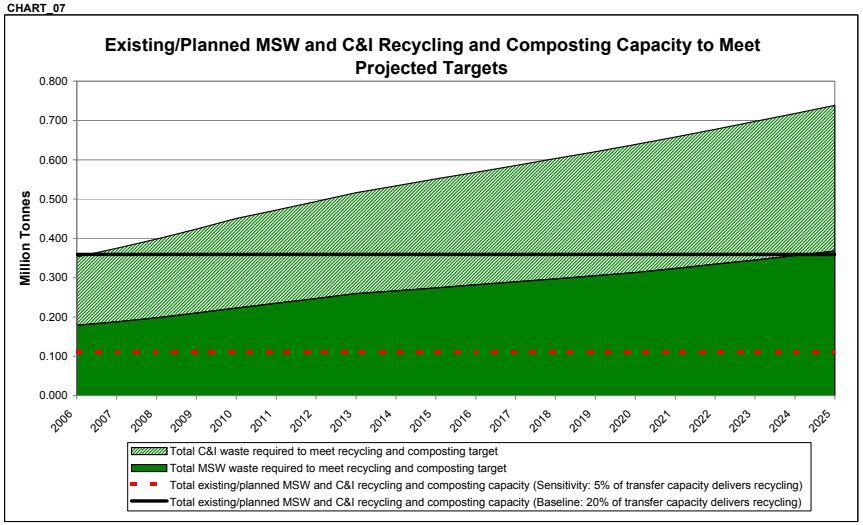
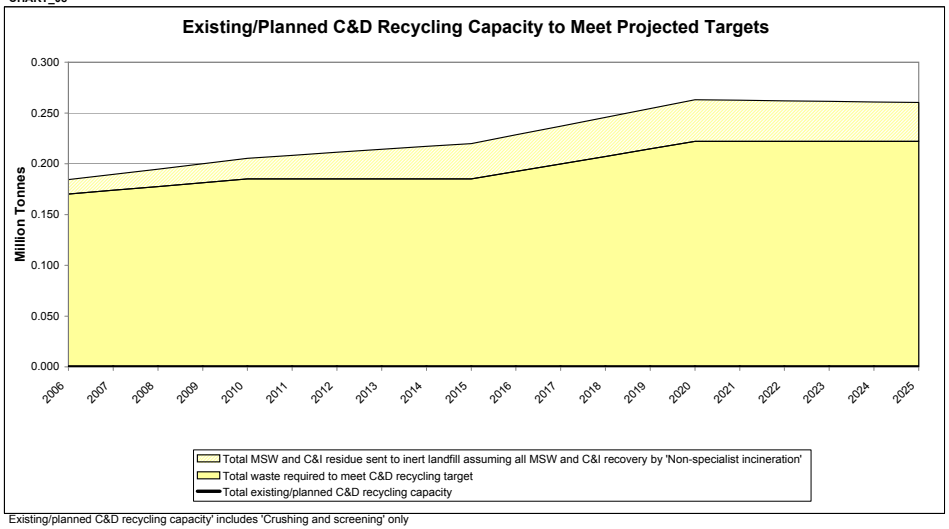


CHART_08



Existing/planned C&D recycling capacity' includes 'Crushing and screening' only
NOTE: This capacity does not represent the quantity of material that is recycled.
NOTE: Residue from MSW and C&I recovery is based on existing/planned capacity (not waste tonnage to meet recovery target)

East Sussex

CHART_09

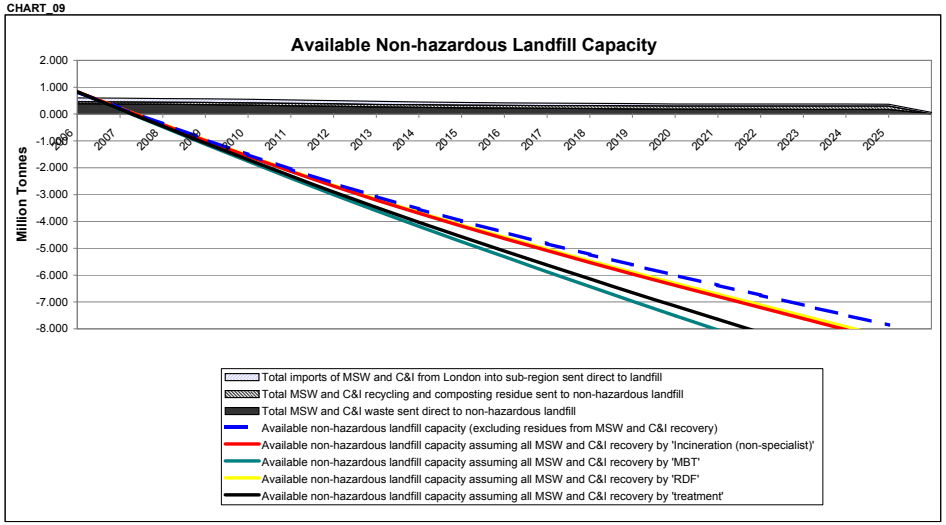
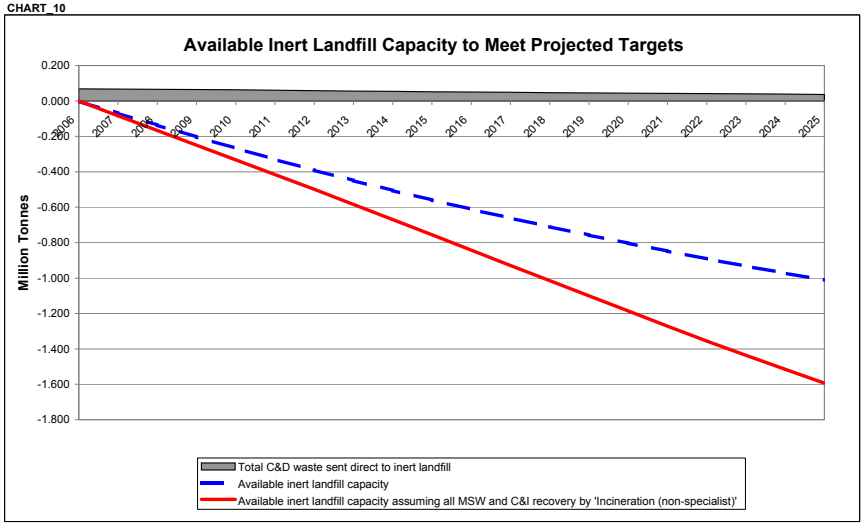


CHART_10



NOTE: The graph assumes that the baseline capacity for non-hazardous landfill has accounted for C&D reuse as a landfill engineering material.

Hampshire

SUMMARY DATA AND RESULTS FOR HAMPSHIRE

MANAGED WASTE USED TO GENERATE RESULTS (Million Tonnes)	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	0.958	0.982	1.007	1.032	1.058	1.079	1.101	1.123	1.145	1.168	1.185	1.203	1.221	1.240	1.258	1.277	1.296	1.316	1.335	1.355
msw - imports from london that are sent direct to non-hazardous landfill	0.053	0.051	0.050	0.049	0.047	0.045	0.042	0.039	0.037	0.034	0.033	0.031	0.030	0.028	0.027	0.027	0.026	0.025	0.025	0.024
c&i	1.658	1.699	1.742	1.785	1.830	1.866	1.904	1.942	1.981	2.020	2.050	2.081	2.112	2.144	2.176	2.198	2.220	2.242	2.265	2.287
c&i - imports from london that are sent direct to non-hazardous landfill	0.091	0.089	0.087	0.084	0.082	0.077	0.073	0.068	0.064	0.059	0.057	0.054	0.052	0.049	0.047	0.046	0.045	0.043	0.042	0.041
c&d	2.148	2.148	2.148	2.148	2.148	2.148	2.148	2.148	2.148	2.148	2.148	2.148	2.148	2.148	2.148	2.148	2.148	2.148	2.148	2.148
hazardous	0.173	0.177	0.181	0.186	0.191	0.194	0.198	0.202	0.206	0.210	0.214	0.217	0.220	0.223	0.227	0.229	0.231	0.234	0.236	0.238

WASTE STREAM TONNAGES TO MEET TARGETS (Million Tonnes)		2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	LATS shortfall (how much extra is landfilled above LATS target)	*0.039*	*0.042*	*0.049*	*0.060*	*0.075*	*0.080*	*0.083*	*0.086*	*0.064*	*0.042*	*0.038*	*0.034*	*0.030*	*0.025*	*0.020*	*0.020*	*0.020*	*0.021*	*0.021*	*0.022*
	Recycling and composting target	0.340	0.368	0.401	0.439	0.481	0.513	0.545	0.577	0.594	0.612	0.630	0.649	0.667	0.686	0.705	0.729	0.753	0.778	0.803	0.829
	Recovery target	0.068	0.084	0.103	0.122	0.144	0.176	0.208	0.241	0.267	0.294	0.307	0.319	0.332	0.345	0.359	0.354	0.349	0.343	0.337	0.331
	Non-hazardous landfill	0.551	0.530	0.503	0.471	0.433	0.391	0.348	0.305	0.284	0.262	0.249	0.235	0.222	0.208	0.194	0.195	0.195	0.195	0.195	0.195
c&i	Recycling and composting target	0.696	0.748	0.801	0.857	0.915	0.952	0.990	1.029	1.069	1.111	1.148	1.186	1.225	1.265	1.306	1.341	1.376	1.413	1.449	1.487
	Recovery target	0.235	0.245	0.254	0.264	0.274	0.299	0.324	0.350	0.376	0.404	0.414	0.425	0.435	0.446	0.457	0.453	0.448	0.444	0.439	0.435
	Non-hazardous landfill	0.726	0.707	0.686	0.664	0.640	0.616	0.590	0.563	0.535	0.505	0.488	0.470	0.452	0.433	0.413	0.404	0.395	0.386	0.376	0.366
c&d	Recycling target	0.988	1.010	1.031	1.053	1.074	1.074	1.074	1.074	1.074	1.074	1.117	1.160	1.203	1.246	1.289	1.289	1.289	1.289	1.289	1.289
	Recovery target	0.760	0.748	0.735	0.722	0.709	0.722	0.735	0.748	0.760	0.773	0.739	0.705	0.670	0.636	0.601	0.610	0.619	0.627	0.636	0.644
	Inert landfill	0.400	0.391	0.382	0.374	0.365	0.352	0.339	0.327	0.314	0.301	0.292	0.284	0.275	0.266	0.258	0.249	0.241	0.232	0.223	0.215
hazardous	Hazardous waste	0.173	0.177	0.181	0.186	0.191	0.194	0.198	0.202	0.206	0.210	0.214	0.217	0.220	0.223	0.227	0.229	0.231	0.234	0.236	0.238

Note: If there is a LATS shortfall, denoted by a positive number, (ie insufficient allowance to landfill non-diverted waste) then the model assumes that this extra waste is recycled/composted and recovered at the same ratio as the regional targets for recycling/composting and recovery for that year.

EXISTING/PLANNED CAPACITY FOR RECYCLING, RECOVERY AND LANDFILLING AND TOTAL WASTE TONNAGES TO EACH DISPOSAL ROUTE (Million Tonnes)	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
MSW and C&I recovery																				
Total existing/planned MSW and C&I recovery capacity	1.542	1.542	1.542	1.542	1.542	1.542	1.542	1.542	1.542	1.542	1.542	1.542	1.542	1.542	1.542	1.542	1.542	1.542	1.542	1.542
Surplus/deficit capacity	1.239	1.213	1.185	1.155	1.123	1.068	1.010	0.952	0.898	0.844	0.821	0.798	0.774	0.750	0.726	0.735	0.745	0.755	0.765	0.776
MSW and C&I recycling and composting																				
Total existing/planned MSW and C&I recycling and composting capacity (Baseline: 20% of transfer capacity delivers recycling)	4.692	4.692	4.692	4.692	4.692	4.692	4.692	4.692	4.692	4.692	4.692	4.692	4.692	4.692	4.692	4.692	4.692	4.692	4.692	4.692
Total existing/planned MSW and C&I recycling and composting capacity (Sensitivity: 5% of transfer capacity delivers recycling)	4.329	4.329	4.329	4.329	4.329	4.329	4.329	4.329	4.329	4.329	4.329	4.329	4.329	4.329	4.329	4.329	4.329	4.329	4.329	4.329
Surplus/deficit capacity (Baseline: 20% of transfer capacity delivers recycling)	3.657	3.576	3.490	3.396	3.296	3.228	3.158	3.086	3.029	2.969	2.914	2.857	2.800	2.741	2.682	2.623	2.563	2.502	2.440	2.377
Surplus/deficit capacity (Sensitivity: 5% of transfer capacity delivers recycling)	3.293	3.213	3.126	3.033	2.933	2.864	2.794	2.723	2.665	2.605	2.550	2.494	2.437	2.378	2.318	2.259	2.200	2.139	2.077	2.013
C&D recycling																				
Total existing/planned C&D recycling capacity	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072
Surplus/deficit capacity	-0.916	-0.938	-0.959	-0.981	-1.002	-1.002	-1.002	-1.002	-1.002	-1.002	-1.045	-1.088	-1.131	-1.174	-1.217	-1.217	-1.217	-1.217	-1.217	-1.217
C&D recovery																				
REGIONAL total existing/planned C&D recovery capacity	1.794	1.710	1.627	1.544	1.460	1.439	1.418	1.398	1.377	1.356	1.325	1.293	1.262	1.231	1.199	1.220	1.241	1.262	1.283	1.304
Surplus/deficit capacity	1.033	0.963	0.892	0.822	0.751	0.717	0.684	0.650	0.616	0.583	0.586	0.589	0.592	0.595	0.598	0.610	0.622	0.635	0.647	0.659
Hazardous waste recycling																				
Total existing/planned hazardous waste recycling capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Surplus/deficit capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hazardous waste recovery																				
Total existing/planned hazardous waste recovery capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Surplus/deficit capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Non-hazardous landfill																				
Available non-hazardous landfill capacity (excluding residues from MSW and C&I recovery)	-1.014	-2.689	-4.335	-5.944	-7.511	-9.030	-10.486	-11.877	-13.201	-14.476	-15.702	-16.907	-18.089	-19.249	-20.385	-21.498	-22.608	-23.717	-24.824	-25.929
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'Incineration (non-specialist)'	-1.056	-2.777	-4.471	-6.134	-7.759	-9.341	-10.868	-12.339	-13.751	-15.124	-16.454	-17.767	-19.061	-20.335	-21.591	-22.825	-24.057	-25.285	-26.510	-27.732
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'MBT'	-1.179	-3.033	-4.872	-6.692	-8.488	-10.254	-11.989	-13.694	-15.366	-17.021	-18.659	-20.289	-21.910	-23.523	-25.126	-26.719	-28.306	-29.885	-31.456	-33.020
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'RDF'	-1.048	-2.759	-4.444	-6.096	-7.710	-9.279	-10.792	-12.246	-13.641	-14.994	-16.304	-17.595	-18.866	-20.118	-21.349	-22.560	-23.767	-24.971	-26.173	-27.371
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'treatment'	-1.140	-2.951	-4.745	-6.515	-8.256	-9.963	-11.633	-13.262	-14.852	-16.418	-17.957	-19.486	-21.003	-22.508	-24.001	-25.480	-26.954	-28.421	-29.882	-31.337
Inert landfill																				
Available inert landfill capacity	1.735	1.335	0.944	0.562	0.188	-0.177	-0.529	-0.869	-1.195	-1.509	-1.810	-2.102	-2.385	-2.660	-2.927	-3.184	-3.434	-3.674	-3.906	-4.130
Available inert landfill capacity assuming all MSW and C&I recovery by 'Incineration (non-specialist)'	1.693	1.248	0.807	0.372	-0.060	-0.488	-0.912	-1.331	-1.746	-2.156	-2.561	-2.962	-3.357	-3.747	-4.132	-4.512	-4.882	-5.242	-5.592	-5.932
Hazardous landfill																				
Available hazardous landfill capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Note: The model does not contain data for the management of hazardous waste.

DATA_01: ARISINGS AND GROWTH RATES OF MSW, C&I AND HAZARDOUS WASTE (Million Tonnes)		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	Arisings of MSW in baseline year																					
	(1) Forecast regional level growth rate of MSW - per year (%)	3.0%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%
	(1) Forecast regional level growth rate of MSW - cumulative (%)	106%	109%	111%	114%	117%	120%	122%	125%	127%	130%	133%	135%	137%	139%	141%	143%	145%	147%	149%	152%	154%
	Total arisings of MSW using regional growth forecasts	0.935	0.958	0.982	1.007	1.032	1.058	1.079	1.101	1.123	1.145	1.168	1.185	1.203	1.221	1.240	1.258	1.277	1.296	1.316	1.335	1.355
	(1) Forecast sub-regional growth rate of MSW - per year (%)	3.0%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%
	(1) Forecast sub-regional level growth rate of MSW - cumulative (%)	106%	109%	111%	114%	117%	120%	122%	125%	127%	130%	133%	135%	137%	139%	141%	143%	145%	147%	149%	152%	154%
	Total arisings of MSW using sub-regional growth forecasts	0.935	0.958	0.982	1.007	1.032	1.058	1.079	1.101	1.123	1.145	1.168	1.185	1.203	1.221	1.240	1.258	1.277	1.296	1.316	1.335	1.355
c&i	Arisings of C&I in baseline year																					
	(1) Forecast regional level growth rate of C&I - per year (%)	3.3%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.0%	1.0%	1.0%	1.0%	1.0%
	(1) Forecast regional level growth rate of C&I - cumulative (%)	110%	113%	116%	119%	122%	125%	127%	130%	132%	135%	138%	140%	142%	144%	146%	148%	150%	151%	153%	154%	156%
	Total arisings of C&I using regional growth forecasts	1.617	1.658	1.699	1.742	1.785	1.830	1.866	1.904	1.942	1.981	2.020	2.050	2.081	2.112	2.144	2.176	2.198	2.220	2.242	2.265	2.287
	(1) Forecast sub-regional level growth rate of C&I - per year (%)	3.3%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.0%	1.0%	1.0%	1.0%	1.0%
	(1) Forecast sub-regional level growth rate of C&I - cumulative (%)	110%	113%	116%	119%	122%	125%	127%	130%	132%	135%	138%	140%	142%	144%	146%	148%	150%	151%	153%	154%	156%
	Total arisings of C&I using sub-regional growth forecasts	1.617	1.658	1.699	1.742	1.785	1.830	1.866	1.904	1.942	1.981	2.020	2.050	2.081	2.112	2.144	2.176	2.198	2.220	2.242	2.265	2.287
hazardous	Arisings of hazardous waste in baseline year																					
	(2) Forecast regional level growth rate of hazardous waste - per year (%)	3.3%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.0%	1.0%	1.0%	1.0%	1.0%
	Forecast regional level growth rate of hazardous waste - cumulative (%)	107%	109%	112%	115%	118%	121%	123%	126%	128%	131%	133%	135%	137%	139%	141%	144%	145%	146%	148%	149%	151%
	Total arisings of hazardous waste	0.168	0.173	0.177	0.181	0.186	0.191	0.194	0.198	0.202	0.206	0.210	0.214	0.217	0.220	0.223	0.227	0.229	0.231	0.234	0.236	0.238
	(2) Forecast sub-regional level growth rate of hazardous waste - per year (%)	3.3%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.0%	1.0%	1.0%	1.0%	1.0%
	Forecast sub regional level growth rate of hazardous waste - cumulative (%)	107%	109%	112%	115%	118%	121%	123%	126%	128%	131%	133%	135%	137%	139%	141%	144%	145%	146%	148%	149%	151%
	Total arisings of hazardous waste	0.168	0.173	0.177	0.181	0.186	0.191	0.194	0.198	0.202	0.206	0.210	0.214	0.217	0.220	0.223	0.227	0.229	0.231	0.234	0.236	0.238
c&d	Total managed C&D in baseline year																					
	(3) Forecast regional-level growth rate of managed C&D - per year (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Forecast regional-level growth rate of managed C&D - cumulative (%)	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
	(3) Total managed of C&D for the sub-region	2.148	2.148	2.148	2.148	2.148	2.148	2.148	2.148	2.148	2.148	2.148	2.148	2.148	2.148	2.148	2.148	2.148	2.148	2.148	2.148	2.148

(1) Figures from SEERA updated waste capacity model by ERM in 2005.
(2) Baseline year of hazardous waste arisings is 2003 from EA Hazardous Waste Interrogator. www.environment-agency.gov.uk/apps/wastesurvey2/. ERM has assumed that growth in hazardous waste is equal to C&I waste.
(3) These data represent managed C&D waste in the sub-region, including all intra-regional and inter-regional movements. Growth is assumed to be zero from the orginal MEL study and updated modeted by ERM in 2005.
NOTE: C&D waste is not included in arisings because this was taken from survey data by Symonds 2001 which gave values for managed C&D waste.

Hampshire

Figure in blue represent data supplied by each sub-region for the new '2006 SEERA Capacity and Need Model'
Figures in orange represent managed waste that are used by the model to calculate results. These can be adjusted for different scenarios.

DATA_02: INTER REGIONAL MOVEMENTS OF MSW and C&I (Million Tonnes)		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw and c&i	Regional level imports of MSW and C&I waste into the SE region from London	1.76	1.716	1.672	1.628	1.584	1.54	1.454	1.368	1.282	1.196	1.11	1.064	1.018	0.972	0.926	0.88	0.86	0.84	0.82	0.8	0.78
	Proportion of regional MSW and C&I imports that go to the sub-region (%)	8.4%	8.4%	8.4%	8.4%	8.4%	8.4%	8.4%	8.4%	8.4%	8.4%	8.4%	8.4%	8.4%	8.4%	8.4%	8.4%	8.4%	8.4%	8.4%	8.4%	8.4%
(1)	Total imports of MSW and C&I from London into sub-region sent direct to landfill	0.148	0.144	0.140	0.137	0.133	0.129	0.122	0.115	0.108	0.100	0.093	0.089	0.086	0.082	0.078	0.074	0.072	0.071	0.069	0.067	0.066
msw	Proportion of total MSW and C&I imports that are MSW (%) - REGIONAL GROWTH FORECAST	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%
	Total imports of MSW into the sub-region from London - REGIONAL GROWTH FORECAST	0.054	0.053	0.051	0.050	0.049	0.047	0.045	0.042	0.039	0.037	0.034	0.033	0.031	0.030	0.028	0.027	0.027	0.026	0.025	0.025	0.024
	Proportion of total MSW and C&I imports that are MSW (%) - SUB-REGIONAL GROWTH FORECAST	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%
	Total imports of MSW into the sub-region from London - SUB-REGIONAL GROWTH FORECAST	0.054	0.053	0.051	0.050	0.049	0.047	0.045	0.042	0.039	0.037	0.034	0.033	0.031	0.030	0.028	0.027	0.027	0.026	0.025	0.025	0.024
c&i	Proportion of total MSW and C&I imports that are C&I (%) - REGIONAL GROWTH FORECAST	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%
	Total imports of C&I into the sub-region from London - REGIONAL GROWTH FORECAST	0.094	0.091	0.089	0.087	0.084	0.082	0.077	0.073	0.068	0.064	0.059	0.057	0.054	0.052	0.049	0.047	0.046	0.045	0.043	0.042	0.041
	Proportion of total MSW and C&I imports that are C&I (%) - SUB-REGIONAL GROWTH FORECAST	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%
	Total imports of C&I into the sub-region from London - SUB-REGIONAL GROWTH FORECAST	0.094	0.091	0.089	0.087	0.084	0.082	0.077	0.073	0.068	0.064	0.059	0.057	0.054	0.052	0.049	0.047	0.046	0.045	0.043	0.042	0.041

(1) Intra-regional and inter-regional movements have been excluded for MSW and C&I waste due to self-sufficiency requirements under PPS10, except for inter-regional movements from London into the sub-region. Apportionment from Policy W3 in the Plan – downloa
Note: Only a figure is available for total combined imports of MSW and C&I waste. ERM has assumed that imports of the seperate waste streams of MSW and C&I was split according to tonnage arisings of MSW and C&I in the sub-region.

DATA_03: MANAGED WASTE USED TO GENERATE RESULTS (Million Tonnes)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	0.935	0.958	0.982	1.007	1.032	1.058	1.079	1.101	1.123	1.145	1.168	1.185	1.203	1.221	1.240	1.258	1.277	1.296	1.316	1.335	1.355
msw - imports from london that are sent direct to non-hazardous landfill	0.054	0.053	0.051	0.050	0.049	0.047	0.045	0.042	0.039	0.037	0.034	0.033	0.031	0.030	0.028	0.027	0.027	0.026	0.025	0.025	0.024
c&i	1.617	1.658	1.699	1.742	1.785	1.830	1.866	1.904	1.942	1.981	2.020	2.050	2.081	2.112	2.144	2.176	2.198	2.220	2.242	2.265	2.287
c&I - imports from london that are sent direct to non-hazardous landfill	0.094	0.091	0.089	0.087	0.084	0.082	0.077	0.073	0.068	0.064	0.059	0.057	0.054	0.052	0.049	0.047	0.046	0.045	0.043	0.042	0.041
c&d	2.148	2.148	2.148	2.148	2.148	2.148	2.148	2.148	2.148	2.148	2.148	2.148	2.148	2.148	2.148	2.148	2.148	2.148	2.148	2.148	2.148
hazardous	0.168	0.173	0.177	0.181	0.186	0.191	0.194	0.198	0.202	0.206	0.210	0.214	0.217	0.220	0.223	0.227	0.229	0.231	0.234	0.236	0.238

DATA_04: TARGETS (% or Million Tonnes)		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	(1) landfill (Mt)	0.372	0.362	0.347	0.326	0.301	0.270	0.240	0.210	0.180	0.172	0.165	0.157	0.149	0.141	0.134	0.126	0.126	0.126	0.126	0.126	0.126
	recovered (%)	5	6.4	7.8	9.2	10.6	12	14.4	16.8	19.2	21.6	24	24.8	25.6	26.4	27.2	28	27.2	26.4	25.6	24.8	24
	recycled and composted (%)	30	32.0	34.0	36.0	38.0	40	42.0	44.0	46.0	48.0	50	51.0	52.0	53.0	54.0	55	56.0	57.0	58.0	59.0	60
c&i	recovered (%)	14	14.2	14.4	14.6	14.8	15	16.0	17.0	18.0	19.0	20	20.2	20.4	20.6	20.8	21	20.6	20.2	19.8	19.4	19
	recycled and composted (%)	40	42.0	44.0	46.0	48.0	50	51.0	52.0	53.0	54.0	55	56.0	57.0	58.0	59.0	60	61.0	62.0	63.0	64.0	65
c&d	recovered (%)	36	35.4	34.8	34.2	33.6	33	33.6	34.2	34.8	35.4	36	34.4	32.8	31.2	29.6	28	28.4	28.8	29.2	29.6	30
	recycled (%)	45	46.0	47.0	48.0	49.0	50	50.0	50.0	50.0	50.0	50	52.0	54.0	56.0	58.0	60	60.0	60.0	60.0	60.0	60
hazardous	landfill (%)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	recovered (%)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	recycled (%)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

(1) ERM has assumed that the LATS target allowance remains constant at the 2020 value for the years beyond 2020

DATA_05: WASTE STREAM TONNAGES TO MEET TARGETS (Million Tonnes)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025

This first section of DATA_03 calculates if there is a LATS shortfall or suplus in each year. If there is a LATS shortfall (ie insufficient allowance to landfill non-diverted waste) then the model assumes that this extra waste is recycled/composted and r

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	Total MSW to be recovered and recycled/composted to meet target	0.327	0.368	0.411	0.455	0.502	0.550	0.609	0.669	0.732	0.797	0.864	0.899	0.934	0.970	1.007	1.044	1.063	1.081	1.100	1.119	1.139
	Total MSW not-diverted by targets	0.608	0.590	0.572	0.552	0.530	0.508	0.470	0.431	0.391	0.348	0.304	0.287	0.270	0.252	0.233	0.214	0.215	0.215	0.216	0.216	0.217
	Percentage of MSW that is biodegradable (% by weight)	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68
	Total BMW not-diverted by targets	0.413	0.401	0.389	0.375	0.361	0.345	0.320	0.293	0.266	0.237	0.206	0.195	0.183	0.171	0.158	0.145	0.146	0.146	0.147	0.147	0.147
	LATS shortfall (how much extra is landfilled above LATS target)	0.041	0.039	0.042	0.049	0.060	0.075	0.080	0.083	0.086	0.064	0.042	0.038	0.034	0.030	0.025	0.020	0.020	0.020	0.021	0.021	0.022
	Ratio of 'recovered' to 'recycled/composted' for target (%)	14%	17%	19%	20%	22%	23%	26%	28%	29%	31%	32%	33%	33%	33%	33%	34%	33%	32%	31%	30%	29%
	Extra MSW 'recovery' needed due to LATS shortfall	*0.006*	*0.007*	*0.008*	*0.010*	*0.013*	*0.017*	*0.020*	*0.023*	*0.025*	*0.020*	*0.014*	*0.013*	*0.011*	*0.010*	*0.008*	*0.007*	*0.007*	*0.006*	*0.006*	*0.006*	*0.006*
	Extra MSW 'recycling/composting' needed due to LATS shortfall	*0.035*	*0.033*	*0.034*	*0.039*	*0.047*	*0.058*	*0.059*	*0.060*	*0.060*	*0.044*	*0.028*	*0.026*	*0.023*	*0.020*	*0.017*	*0.013*	*0.013*	*0.014*	*0.014*	*0.015*	*0.015*

The section below in DATA_03 shows the tonnages by waste to meet targets.

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	Recycling and composting target	0.316	0.340	0.368	0.401	0.439	0.481	0.513	0.545	0.577	0.594	0.612	0.630	0.649	0.667	0.686	0.705	0.729	0.753	0.778	0.803	0.829
	Recovery target	0.053	0.068	0.084	0.103	0.122	0.144	0.176	0.208	0.241	0.267	0.294	0.307	0.319	0.332	0.345	0.359	0.354	0.349	0.343	0.337	0.331
	Non-hazardous landfill	0.567	0.551	0.530	0.503	0.471	0.433	0.391	0.348	0.305	0.284	0.262	0.249	0.235	0.222	0.208	0.194	0.195	0.195	0.195	0.195	0.195
	CHECK COUNTER (should be zero)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
c&i	Recycling and composting target	0.647	0.696	0.748	0.801	0.857	0.915	0.952	0.990	1.029	1.069	1.111	1.148	1.186	1.225	1.265	1.306	1.341	1.376	1.413	1.449	1.487
	Recovery target	0.226	0.235	0.245	0.254	0.264	0.274	0.299	0.324	0.350	0.376	0.404	0.414	0.425	0.435	0.446	0.457	0.453	0.448	0.444	0.439	0.435
	Non-hazardous landfill	0.744	0.726	0.707	0.686	0.664	0.640	0.616	0.590	0.563	0.535	0.505	0.488	0.470	0.452	0.433	0.413	0.404	0.395	0.386	0.376	0.366
	CHECK COUNTER (should be zero)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
c&d	Recycling target	0.967	0.988	1.010	1.031	1.053	1.074	1.074	1.074	1.074	1.074	1.074	1.117	1.160	1.203	1.246	1.289	1.289	1.289	1.289	1.289	1.289
	Recovery target	0.773	0.760	0.748	0.735	0.722	0.709	0.722	0.735	0.748	0.760	0.773	0.739	0.705	0.670	0.636	0.601	0.610	0.619	0.627	0.636	0.644
	Inert landfill	0.408	0.400	0.391	0.382	0.374	0.365	0.352	0.339	0.327	0.314	0.301	0.292	0.284	0.275	0.266	0.258	0.249	0.241	0.232	0.223	0.215
	CHECK COUNTER (should be zero)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
hazardous	Hazardous waste	0.168	0.173	0.177	0.181	0.186	0.191	0.194	0.198	0.202	0.206	0.210	0.214	0.217	0.220	0.223	0.227	0.229	0.231	0.234	0.236	0.238

DATA_06: TOTAL WASTE TONNAGES TO MEET TARGETS (Million Tonnes)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
MSW and C&I recycling and composting target	0.963	1.036	1.116	1.203	1.296	1.396	1.464	1.534	1.606	1.664	1.723	1.779	1.835	1.892	1.951	2.011	2.069	2.129	2.190	2.252	2.315
C&D recycling target	0.967	0.988	1.010	1.031	1.053	1.074	1.074	1.074	1.074	1.074	1.074	1.117	1.160	1.203	1.246	1.289	1.289	1.289	1.289	1.289	1.289
MSW and C&I recovery target	0.279	0.303	0.329	0.357	0.387	0.419	0.474	0.532	0.590	0.644	0.698	0.721	0.744	0.767	0.791	0.816	0.807	0.797	0.787	0.777	0.766
C&D recovery target	0.773	0.760	0.748	0.735	0.722	0.709	0.722	0.735	0.748	0.760	0.773	0.739	0.705	0.670	0.636	0.601	0.610	0.619	0.627	0.636	0.644
Non-hazardous landfill	1.311	1.277	1.236	1.189	1.135	1.073	1.007	0.938	0.868	0.818	0.767	0.737	0.706	0.674	0.641	0.608	0.599	0.590	0.581	0.571	0.561
Inert landfill	0.408	0.400	0.391	0.382	0.374	0.365	0.352	0.339	0.327	0.314	0.301	0.292	0.284	0.275	0.266	0.258	0.249	0.241	0.232	0.223	0.215
Hazardous waste	0.168	0.173	0.177	0.181	0.186	0.191	0.194	0.198	0.202	0.206	0.210	0.214	0.217	0.220	0.223	0.227	0.229	0.231	0.234	0.236	0.238

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CHART_01

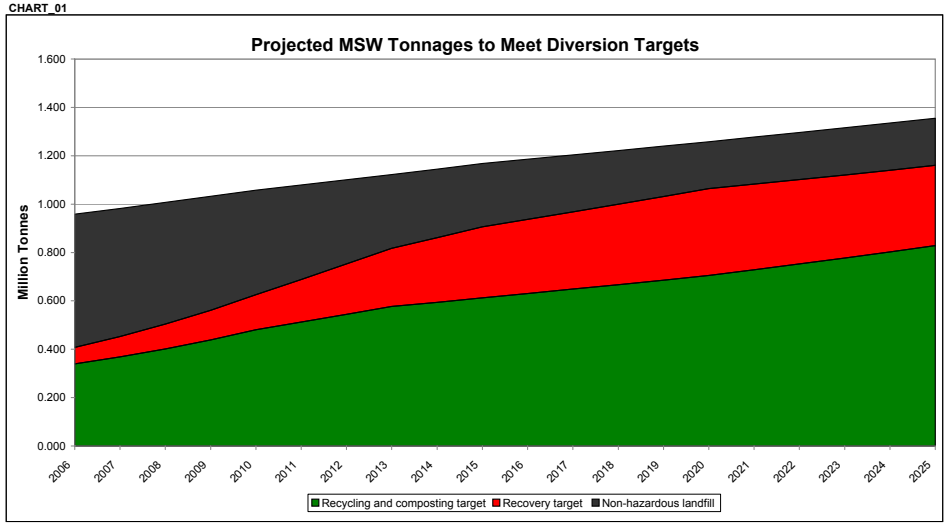


CHART_02

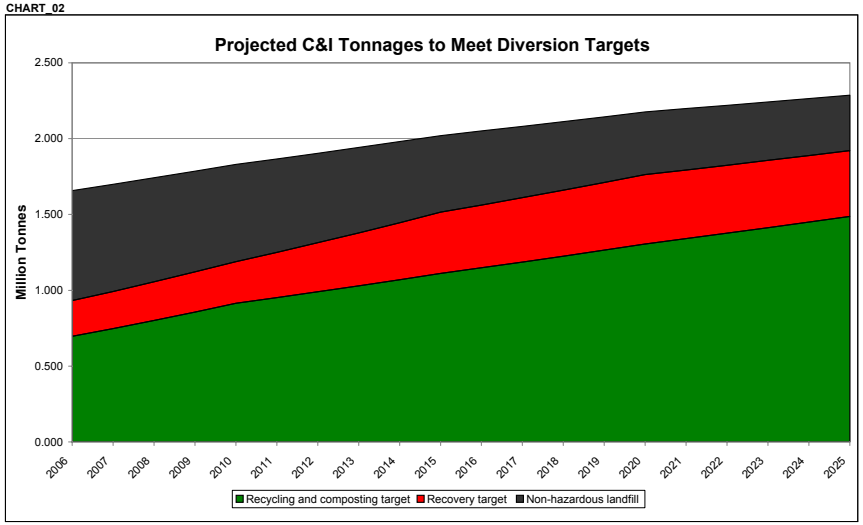
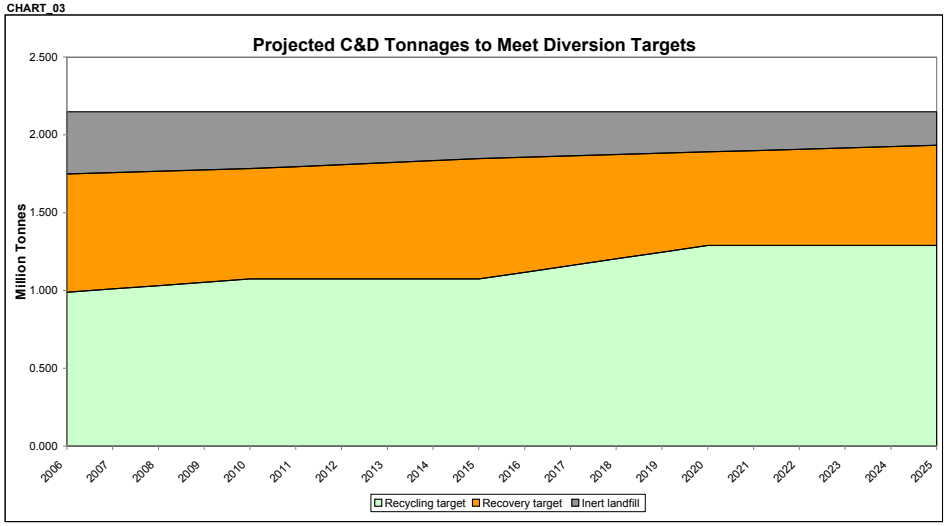


CHART_03



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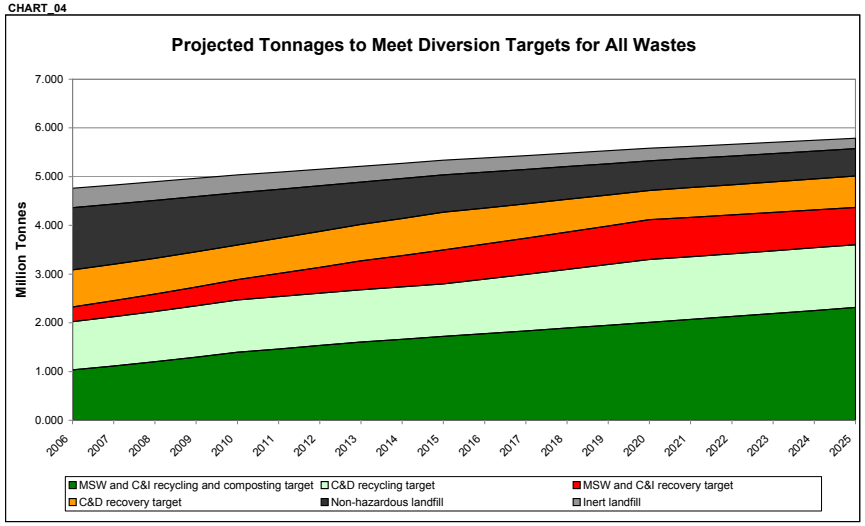

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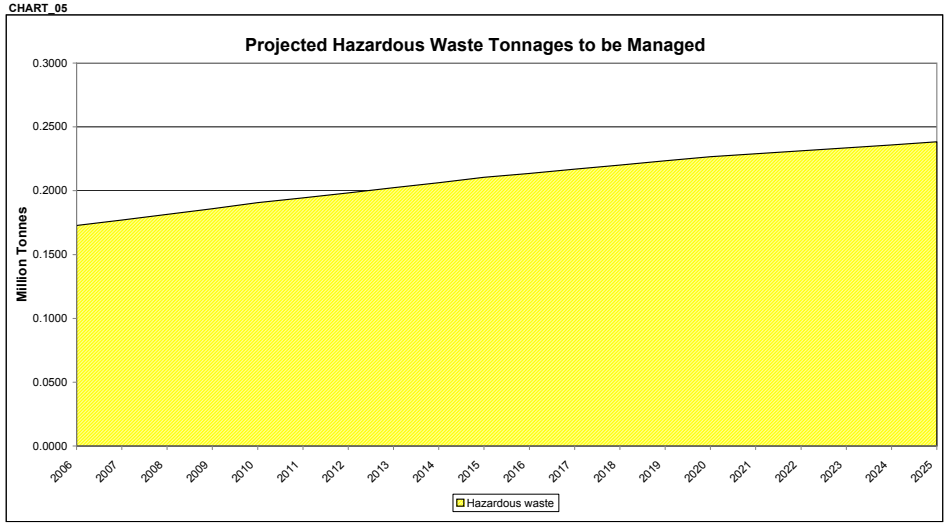
CHART_05



DATA_07: EXISTING/PLANNED CAPACITY FOR RECYCLING, RECOVERY AND LANDFILLING AND TOTAL WASTE TONNAGES TO EACH DISPOSAL ROUTE (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
MSW and C&I recovery																					
MSW and C&I incineration (non-specialist)	0.481	0.481	0.481	0.481	0.481	0.481	0.481	0.481	0.481	0.481	0.481	0.481	0.481	0.481	0.481	0.481	0.481	0.481	0.481	0.481	0.481
MSW and C&I treatment	1.061	1.061	1.061	1.061	1.061	1.061	1.061	1.061	1.061	1.061	1.061	1.061	1.061	1.061	1.061	1.061	1.061	1.061	1.061	1.061	1.061
Total existing/planned MSW and C&I recovery capacity	1.542	1.542	1.542	1.542	1.542	1.542	1.542	1.542	1.542	1.542	1.542	1.542	1.542	1.542	1.542	1.542	1.542	1.542	1.542	1.542	1.542
Total MSW waste required to meet target	0.053	0.068	0.084	0.103	0.122	0.144	0.176	0.208	0.241	0.267	0.294	0.307	0.319	0.332	0.345	0.359	0.354	0.349	0.343	0.337	0.331
Total C&I waste required to meet target	0.226	0.235	0.245	0.254	0.264	0.274	0.299	0.324	0.350	0.376	0.404	0.414	0.425	0.435	0.446	0.457	0.453	0.448	0.444	0.439	0.435
Surplus/deficit capacity	1.263	1.239	1.213	1.185	1.155	1.123	1.068	1.010	0.952	0.898	0.844	0.821	0.798	0.774	0.750	0.726	0.735	0.745	0.755	0.765	0.776
MSW and C&I recycling and composting																					
MSW and C&I recycling	4.068	4.068	4.068	4.068	4.068	4.068	4.068	4.068	4.068	4.068	4.068	4.068	4.068	4.068	4.068	4.068	4.068	4.068	4.068	4.068	4.068
MSW and C&I transfer	2.423	2.423	2.423	2.423	2.423	2.423	2.423	2.423	2.423	2.423	2.423	2.423	2.423	2.423	2.423	2.423	2.423	2.423	2.423	2.423	2.423
Total existing/planned MSW and C&I composting capacity	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140
(1) Total existing/planned MSW and C&I recycling and composting capacity (Baseline: 20% of transfer capacity delivers recycling)	4.692	4.692	4.692	4.692	4.692	4.692	4.692	4.692	4.692	4.692	4.692	4.692	4.692	4.692	4.692	4.692	4.692	4.692	4.692	4.692	4.692
(2) Total existing/planned MSW and C&I recycling and composting capacity (Sensitivity: 5% of transfer capacity delivers recycling)	4.329	4.329	4.329	4.329	4.329	4.329	4.329	4.329	4.329	4.329	4.329	4.329	4.329	4.329	4.329	4.329	4.329	4.329	4.329	4.329	4.329
Total MSW waste required to meet recycling and composting target	0.316	0.340	0.368	0.401	0.439	0.481	0.513	0.545	0.577	0.594	0.612	0.630	0.649	0.667	0.686	0.705	0.729	0.753	0.778	0.803	0.829
Total C&I waste required to meet recycling and composting target	0.647	0.696	0.748	0.801	0.857	0.915	0.952	0.990	1.029	1.069	1.111	1.148	1.186	1.225	1.265	1.306	1.341	1.376	1.413	1.449	1.487
Surplus/deficit capacity (Baseline: 20% of transfer capacity delivers recycling)	3.730	3.657	3.576	3.490	3.396	3.296	3.228	3.158	3.086	3.029	2.969	2.914	2.857	2.800	2.741	2.682	2.623	2.563	2.502	2.440	2.377
Surplus/deficit capacity (Sensitivity: 5% of transfer capacity delivers recycling)	3.366	3.293	3.213	3.126	3.033	2.933	2.864	2.794	2.723	2.665	2.605	2.550	2.494	2.437	2.378	2.318	2.259	2.200	2.139	2.077	2.013
C&D recycling																					
Total existing/planned C&D recycling capacity	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072
Total waste required to meet C&D recycling target	0.967	0.988	1.010	1.031	1.053	1.074	1.074	1.074	1.074	1.074	1.074	1.117	1.160	1.203	1.246	1.289	1.289	1.289	1.289	1.289	1.289
Surplus/deficit capacity	-0.895	-0.916	-0.938	-0.959	-0.981	-1.002	-1.002	-1.002	-1.002	-1.002	-1.002	-1.045	-1.088	-1.131	-1.174	-1.217	-1.217	-1.217	-1.217	-1.217	-1.217
C&D recovery																					
(3) REGIONAL total existing/planned C&D recovery capacity	1.877	1.794	1.710	1.627	1.544	1.460	1.439	1.418	1.398	1.377	1.356	1.325	1.293	1.262	1.231	1.199	1.220	1.241	1.262	1.283	1.304
Sub-regional total waste required to meet C&D recovery target	0.773	0.760	0.748	0.735	0.722	0.709	0.722	0.735	0.748	0.760	0.773	0.739	0.705	0.670	0.636	0.601	0.610	0.619	0.627	0.636	0.644
Surplus/deficit capacity	1.104	1.033	0.963	0.892	0.822	0.751	0.717	0.684	0.650	0.616	0.583	0.586	0.589	0.592	0.595	0.598	0.610	0.622	0.635	0.647	0.659
Hazardous waste recycling																					
Total existing/planned hazardous waste recycling capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total hazardous waste to be recycled	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Surplus/deficit capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hazardous waste recovery																					
Total existing/planned hazardous waste recovery capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total hazardous waste to be recovered	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Surplus/deficit capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Non-hazardous landfill																					
Available non-hazardous landfill capacity (excluding residues from MSW and C&I recovery)	0.538	-1.014	-2.689	-4.335	-5.944	-7.511	-9.030	-10.486	-11.877	-13.201	-14.476	-15.702	-16.907	-18.089	-19.249	-20.385	-21.498	-22.608	-23.717	-24.824	-25.929
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'Incineration (non-specialist)'	0.538	-1.056	-2.777	-4.471	-6.134	-7.759	-9.341	-10.868	-12.339	-13.751	-15.124	-16.454	-17.767	-19.061	-20.335	-21.591	-22.825	-24.057	-25.285	-26.510	-27.732
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'MBT'	0.538	-1.179	-3.033	-4.872	-6.692	-8.488	-10.254	-11.989	-13.694	-15.366	-17.021	-18.659	-20.289	-21.910	-23.523	-25.126	-26.719	-28.306	-29.885	-31.456	-33.020
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'RDF'	0.538	-1.048	-2.759	-4.444	-6.096	-7.710	-9.279	-10.792	-12.246	-13.641	-14.994	-16.304	-17.595	-18.866	-20.118	-21.349	-22.560	-23.767	-24.971	-26.173	-27.371
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'treatment'	0.538	-1.140	-2.951	-4.745	-6.515	-8.256	-9.963	-11.633	-13.262	-14.852	-16.418	-17.957	-19.486	-21.003	-22.508	-24.001	-25.480	-26.954	-28.421	-29.882	-31.337
Total MSW and C&I waste sent direct to non-hazardous landfill	1.311	1.277	1.236	1.189	1.135	1.073	1.007	0.938	0.868	0.818	0.767	0.737	0.706	0.674	0.641	0.608	0.599	0.590	0.581	0.571	0.561
Inert landfill																					
Available inert landfill capacity	2.143	1.735	1.335	0.944	0.562	0.188	-0.177	-0.529	-0.869	-1.195	-1.509	-1.810	-2.102	-2.385	-2.660	-2.927	-3.184	-3.434	-3.674	-3.906	-4.130
Available inert landfill capacity assuming all MSW and C&I recovery by 'Incineration (non-specialist)'	2.143	1.693	1.248	0.807	0.372	-0.060	-0.488	-0.912	-1.331	-1.746	-2.156	-2.561	-2.962	-3.357	-3.747	-4.132	-4.512	-4.882	-5.242	-5.592	-5.932
Total C&D waste sent direct to inert landfill	0.408	0.400	0.391	0.382	0.374	0.365	0.352	0.339	0.327	0.314	0.301	0.292	0.284	0.275	0.266	0.258	0.249	0.241	0.232	0.223	0.215
Hazardous landfill																					
Available hazardous landfill capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total hazardous waste sent direct to hazardous landfill	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Other																					
Metal/ELV facility	0.840	0.840	0.840	0.840	0.840	0.840	0.840	0.840	0.840	0.840	0.840	0.840	0.840	0.840	0.840	0.840	0.840	0.840	0.840	0.840	0.840
Ignored	1.330	1.330	1.330	1.330	1.330	1.330	1.330	1.330	1.330	1.330	1.330	1.330	1.330	1.330	1.330	1.330	1.330	1.330	1.330	1.330	1.330
Closed	0.873	0.873	0.873	0.873	0.873	0.873	0.873	0.873	0.873	0.873	0.873	0.873	0.873	0.873	0.873	0.873	0.873	0.873	0.873	0.873	0.873

(1) ERM has assumed that 20% of the total 'transfer' capacity will deliver recycling capacity
(2) ERM has assumed that 5% of the total 'transfer' capacity will deliver recycling capacity
(3) Data for C&D recovery for landfill cover for the SE Region were sourced from the original MEL model, which sourced the data from Symonds (2001)
Note:

Hampshire

DATA_08: RESIDUE RATES (%)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Recovery residues (% by weight)																					
MSW and C&I incineration (non-specialist) - bottom ash	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
MSW and C&I incineration (non-specialist) - fly ash	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
MSW and C&I to MBT	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59
MSW and C&I to RDF	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
MSW and C&I treatment - non-hazardous	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45
MSW and C&I treatment - hazardous	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Hazardous waste recovery	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Recycling residues (% by weight)																					
MSW and C&I recycling	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
MSW and C&I transfer	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
MSW and C&I composting	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
C&D recycling	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Hazardous waste recycling	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Other																					
Metal/ELV facility	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Ignored	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Closed	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Note: All residues are calculated on the amount of waste arising not on the maount of capacity available. This is complaince with the self-sufficiency requirements of PPS10.

DATA_09: TOTAL RESIDUE (Million Tonnes)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Recovery residues (of waste managed):																					
MSW and C&I incineration (non-specialist) - bottom ash	0.084	0.091	0.099	0.107	0.116	0.126	0.142	0.159	0.177	0.193	0.209	0.216	0.223	0.230	0.237	0.245	0.242	0.239	0.236	0.233	0.230
MSW and C&I incineration (non-specialist) - fly ash	0.008	0.009	0.010	0.011	0.012	0.013	0.014	0.016	0.018	0.019	0.021	0.022	0.022	0.023	0.024	0.024	0.024	0.024	0.024	0.023	0.023
MSW and C&I to MBT	0.165	0.179	0.194	0.211	0.228	0.247	0.280	0.314	0.348	0.380	0.412	0.425	0.439	0.453	0.467	0.481	0.476	0.470	0.464	0.458	0.452
MSW and C&I to RDF	0.033	0.036	0.039	0.043	0.046	0.050	0.057	0.064	0.071	0.077	0.084	0.086	0.089	0.092	0.095	0.098	0.097	0.096	0.094	0.093	0.092
MSW and C&I treatment - non-hazardous	0.126	0.136	0.148	0.161	0.174	0.188	0.213	0.239	0.266	0.290	0.314	0.324	0.335	0.345	0.356	0.367	0.363	0.359	0.354	0.350	0.345
MSW and C&I treatment - hazardous	0.014	0.015	0.016	0.018	0.019	0.021	0.024	0.027	0.030	0.032	0.035	0.036	0.037	0.038	0.040	0.041	0.040	0.040	0.039	0.039	0.038
Hazardous waste recovery	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Recycling residues (of waste managed):																					
MSW and C&I recycling and composting	0.144	0.155	0.167	0.180	0.194	0.209	0.220	0.230	0.241	0.250	0.259	0.267	0.275	0.284	0.293	0.302	0.310	0.319	0.329	0.338	0.347
C&D recycling	0.097	0.099	0.101	0.103	0.105	0.107	0.107	0.107	0.107	0.107	0.107	0.112	0.116	0.120	0.125	0.129	0.129	0.129	0.129	0.129	0.129
Hazardous waste recycling	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Note: All residues are calculated on the amount of waste arising not on the maount of capacity available. This is complaince with the self-sufficiency requirements of PPS10.

DATA_10: TOTAL MSW AND C&I RESIDUE FROM RECYCLING SENT TO NON-HAZARDOUS LANDFILL (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Total MSW and C&I recycling and composting residue sent to non-hazardous landfill	0.241	0.254	0.268	0.283	0.300	0.317	0.327	0.338	0.348	0.357	0.366	0.378	0.391	0.404	0.417	0.430	0.439	0.448	0.457	0.467	0.476

DATA_11: TOTAL MSW AND C&I RESIDUE FROM RECOVERY SENT TO NON-HAZARDOUS LANDFILL AND C&D RECYCLING (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
SCENARIO 1 - Assumes all recovery is by 'Non-specialist incineration' (based on total recovery capacity)																					
(1) Total MSW and C&I residue sent to non-hazardous landfill assuming all MSW and C&I recovery by 'Non-specialist incineration'	0.042	0.045	0.049	0.054	0.058	0.063	0.071	0.080	0.089	0.097	0.105	0.108	0.112	0.115	0.119	0.122	0.121	0.120	0.118	0.117	0.115
(1) Total MSW and C&I residue sent to inert landfill assuming all MSW and C&I recovery by 'Non-specialist incineration'	0.042	0.045	0.049	0.054	0.058	0.063	0.071	0.080	0.089	0.097	0.105	0.108	0.112	0.115	0.119	0.122	0.121	0.120	0.118	0.117	0.115
SCENARIO 2 - Assumes all recovery is by 'MBT' (based on total recovery capacity)																					
Total MSW and C&I residue sent to non-hazardous landfill	0.165	0.179	0.194	0.211	0.228	0.247	0.280	0.314	0.348	0.380	0.412	0.425	0.439	0.453	0.467	0.481	0.476	0.470	0.464	0.458	0.452
SCENARIO 3 - Assumes all recovery is by 'RDF' (based on total recovery capacity)																					
Total MSW and C&I residue sent to non-hazardous landfill	0.033	0.036	0.039	0.043	0.046	0.050	0.057	0.064	0.071	0.077	0.084	0.086	0.089	0.092	0.095	0.098	0.097	0.096	0.094	0.093	0.092
SCENARIO 4 - Assumes all recovery is by 'treatment' (based on total recovery capacity)																					
Total MSW and C&I residue sent to non-hazardous landfill	0.126	0.136	0.148	0.161	0.174	0.188	0.213	0.239	0.266	0.290	0.314	0.324	0.335	0.345	0.356	0.367	0.363	0.359	0.354	0.350	0.345

(1) It was assumed that 50% of residue from 'non-specialist incineration' is sent to non-hazardous landfill and 50% is sent to inert landfill. In the original model assumptions developed MEL 50% was assumed to go to C&D recycling, rather than to inert landfi

DATA_12: TONNAGES OF C&D REUSED ON NON-HAZARDOUS AND INERT LANDFILL (Million Tonnes)

(1) C&D reused on landfill sites	39 %
(1) C&D reused on exempt sites	61 %
(1) C&D reused on landfill sites sent to 'non-haz landfill'	30 %
(1) C&D reused on landfill sites sent to 'inert landfill'	70 %

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
c&d	Total C&D reused on non-hazardous landfill	0.090	0.088	0.087	0.085	0.084	0.082	0.084	0.085	0.087	0.088	0.090	0.086	0.082	0.078	0.074	0.070	0.071	0.072	0.073	0.074	0.075
	Total reused C&D on inert landfill	0.210	0.206	0.203	0.199	0.196	0.192	0.196	0.199	0.203	0.206	0.210	0.201	0.191	0.182	0.173	0.163	0.166	0.168	0.170	0.173	0.175

(1) C&D reuse rates based on original model assumptions developed MEL
NOTE: C&D reuse on inert and non-hazardous landfill is not included within the charts because it has been assumed that data supplied by each sub-region has accounted for C&D reuse as an engineering material.

DATA_13: TOTAL MSW AND C&I RESIDUE FROM RECYCLING SENT TO HAZARDOUS LANDFILL (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Total MSW and C&I recycling and composting residue sent to hazardous landfill	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

DATA_14: TOTAL MSW AND C&I RESIDUE FROM RECOVERY SENT TO HAZARDOUS LANDFILL (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
SCENARIO 1 - Assumes all recovery is by 'Non-specialist incineration' (based on total recovery capacity)																					
Total MSW and C&I residue sent to hazardous landfill assuming all MSW and C&I recovery by 'Non-specialist incineration'	0.008	0.009	0.010	0.011	0.012	0.013	0.014	0.016	0.018	0.019	0.021	0.022	0.022	0.023	0.024	0.024	0.024	0.024	0.024	0.023	0.023
SCENARIO 2 - Assumes all recovery is by 'MBT' (based on total recovery capacity)																					
Total MSW and C&I residue sent to hazardous landfill	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SCENARIO 3 - Assumes all recovery is by 'RDF' (based on total recovery capacity)																					
Total MSW and C&I residue sent to hazardous landfill	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SCENARIO 4 - Assumes all recovery is by 'treatment' (based on total recovery capacity)																					
Total MSW and C&I residue sent to hazardous landfill	0.014	0.015	0.016	0.018	0.019	0.021	0.024	0.027	0.030	0.032	0.035	0.036	0.037	0.038	0.040	0.041	0.040	0.040	0.039	0.039	0.038

NOTE: This element of the model is redundant. There is currently no hazardous waste capacity figures to generate a chart of managed waste versus available capacity.

DATA_15: TOTAL HAZARDOUS WASTE RESIDUE FROM RECOVERY AND RECYCLING SENT TO HAZARDOUS LANDFILL (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Total hazardous waste recycling and recovery residue sent to hazardous landfill	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Hampshire

CHART_06

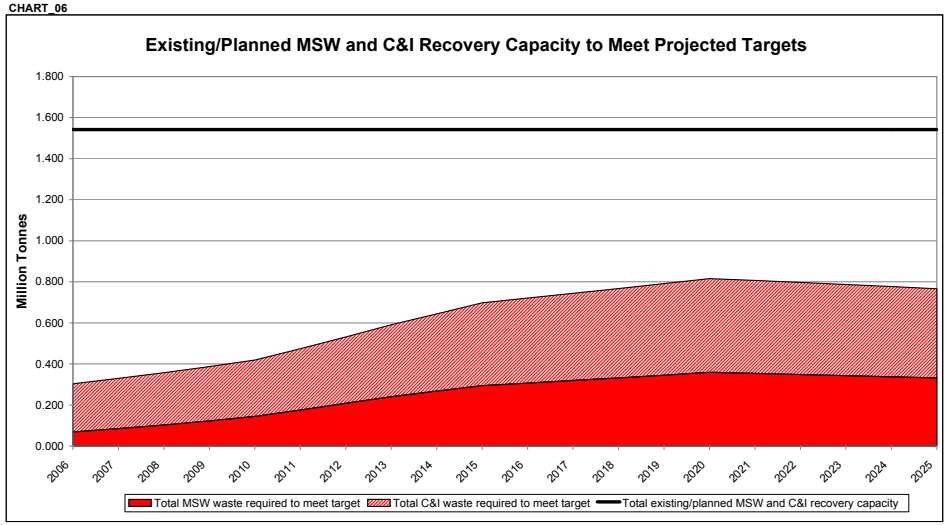


CHART_07

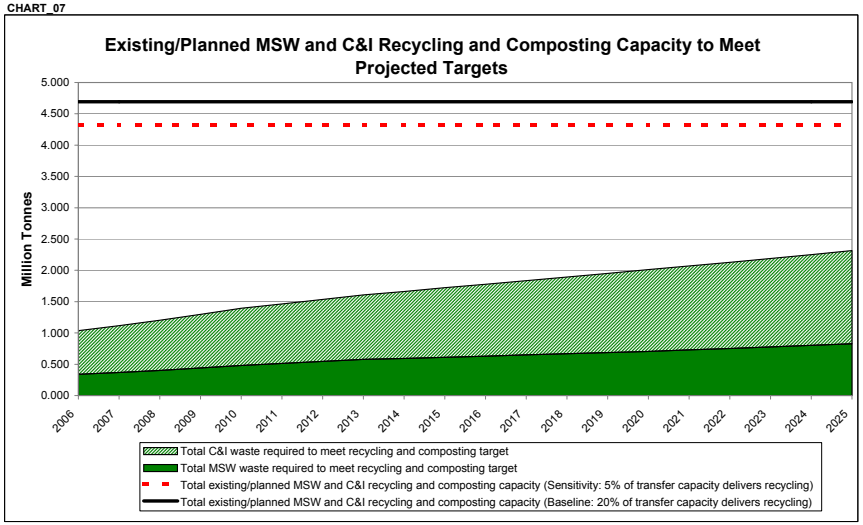
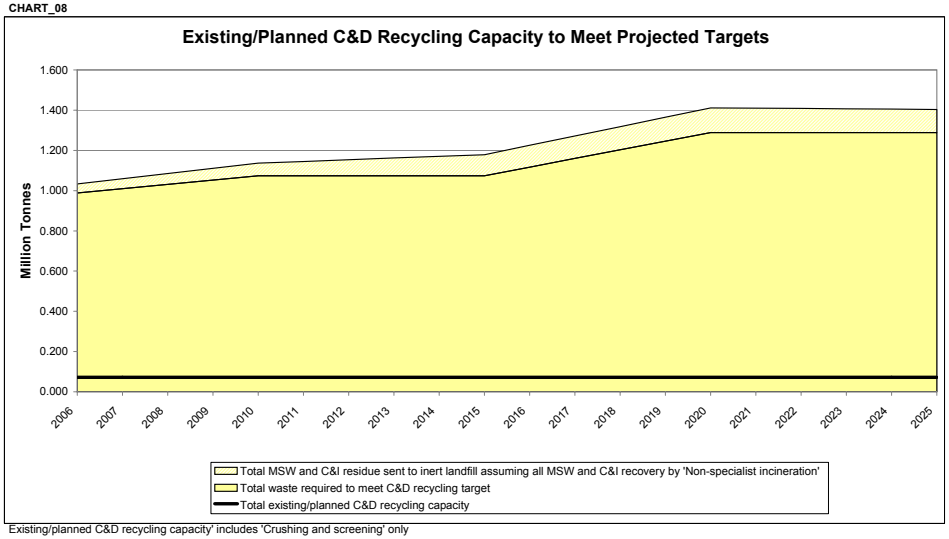


CHART_08



Existing/planned C&D recycling capacity' includes 'Crushing and screening' only
NOTE: This capacity does not represent the quantity of material that is recycled.
NOTE: Residue from MSW and C&I recovery is based on existing/planned capacity (not waste tonnage to meet recovery target)

Hampshire

CHART_09

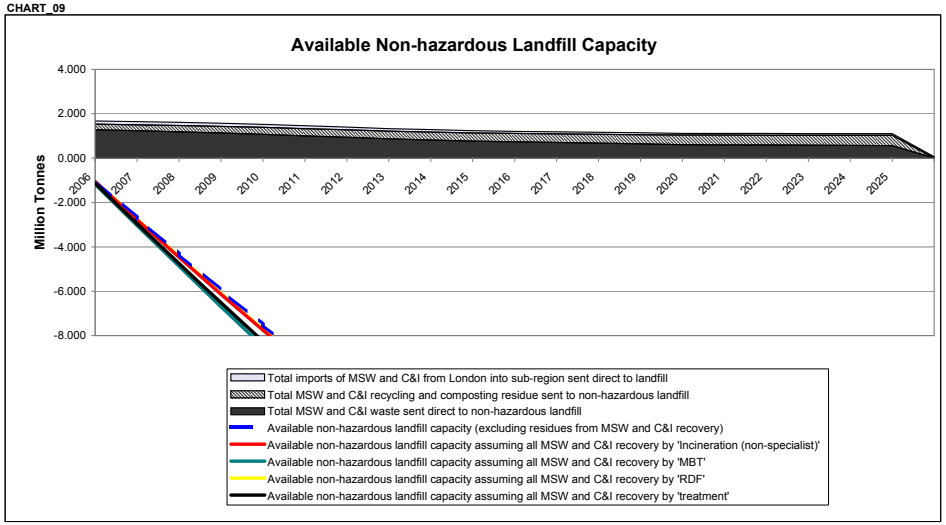
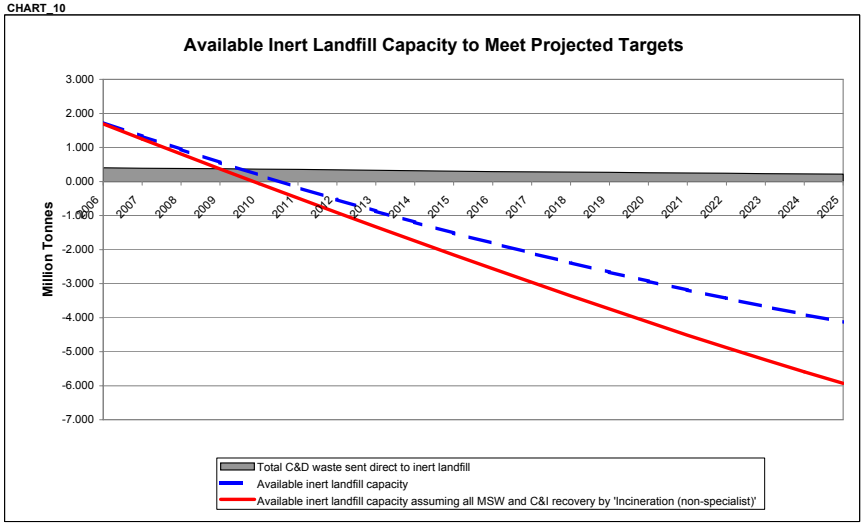


CHART_10



NOTE: The graph assumes that the baseline capacity for non-hazardous landfill has accounted for C&D reuse as a landfill engineering material.

Isle of Wight

SUMMARY DATA AND RESULTS FOR ISLE OF WIGHT

MANAGED WASTE USED TO GENERATE RESULTS (Million Tonnes)	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	0.090	0.092	0.094	0.097	0.099	0.101	0.103	0.105	0.107	0.110	0.111	0.113	0.115	0.116	0.118	0.120	0.122	0.123	0.125	0.127
msw - imports from london that are sent direct to non-hazardous landfill	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
c&i	0.137	0.140	0.144	0.147	0.151	0.154	0.157	0.160	0.164	0.167	0.169	0.172	0.174	0.177	0.180	0.181	0.183	0.185	0.187	0.189
c&i - imports from london that are sent direct to non-hazardous landfill	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
c&d	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171
hazardous	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004

WASTE STREAM TONNAGES TO MEET TARGETS (Million Tonnes)		2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	LATS shortfall (how much extra is landfilled above LATS target)	0.003	0.003	0.002	0.002	0.002	0.003	0.004	0.005	0.003	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Recycling and composting target	0.031	0.034	0.036	0.039	0.041	0.045	0.048	0.052	0.054	0.055	0.057	0.059	0.061	0.063	0.065	0.067	0.069	0.072	0.074	0.076
	Recovery target	0.006	0.008	0.009	0.011	0.012	0.015	0.018	0.022	0.024	0.027	0.028	0.029	0.030	0.032	0.033	0.033	0.032	0.032	0.031	0.031
	Non-hazardous landfill	0.052	0.051	0.049	0.048	0.045	0.041	0.036	0.032	0.030	0.028	0.026	0.025	0.023	0.022	0.020	0.020	0.020	0.020	0.020	0.020
c&i	Recycling and composting target	0.057	0.062	0.066	0.071	0.076	0.079	0.082	0.085	0.088	0.092	0.095	0.098	0.101	0.104	0.108	0.111	0.114	0.117	0.120	0.123
	Recovery target	0.019	0.020	0.021	0.022	0.023	0.025	0.027	0.029	0.031	0.033	0.034	0.035	0.036	0.037	0.038	0.037	0.037	0.037	0.036	0.036
	Non-hazardous landfill	0.060	0.058	0.057	0.055	0.053	0.051	0.049	0.046	0.044	0.042	0.040	0.039	0.037	0.036	0.034	0.033	0.033	0.032	0.031	0.030
c&d	Recycling target	0.078	0.080	0.082	0.084	0.085	0.085	0.085	0.085	0.085	0.085	0.089	0.092	0.096	0.099	0.102	0.102	0.102	0.102	0.102	0.102
	Recovery target	0.060	0.059	0.058	0.057	0.056	0.057	0.058	0.059	0.060	0.061	0.059	0.056	0.053	0.051	0.048	0.048	0.049	0.050	0.051	0.051
	Inert landfill	0.032	0.031	0.030	0.030	0.029	0.028	0.027	0.026	0.025	0.024	0.023	0.023	0.022	0.021	0.020	0.020	0.019	0.018	0.018	0.017
hazardous	Hazardous waste	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004

Note: If there is a LATS shortfall, denoted by a positive number, (ie insufficient allowance to landfill non-diverted waste) then the model assumes that this extra waste is recycled/composted and recovered at the same ratio as the regional targets for recycling/composting and recovery for that year.

EXISTING/PLANNED CAPACITY FOR RECYCLING, RECOVERY AND LANDFILLING AND TOTAL WASTE TONNAGES TO EACH DISPOSAL ROUTE (Million Tonnes)		2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
MSW and C&I recovery																					
	Total existing/planned MSW and C&I recovery capacity	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080
	Surplus/deficit capacity	0.054	0.052	0.050	0.047	0.045	0.040	0.035	0.029	0.025	0.020	0.018	0.016	0.014	0.012	0.009	0.010	0.011	0.012	0.013	0.014
MSW and C&I recycling and composting																					
	Total existing/planned MSW and C&I recycling and composting capacity (Baseline: 20% of transfer capacity delivers recycling)	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070
	Total existing/planned MSW and C&I recycling and composting capacity (Sensitivity: 5% of transfer capacity delivers recycling)	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056
	Surplus/deficit capacity (Baseline: 20% of transfer capacity delivers recycling)	-0.019	-0.026	-0.032	-0.040	-0.047	-0.054	-0.061	-0.067	-0.072	-0.078	-0.082	-0.087	-0.092	-0.098	-0.103	-0.108	-0.113	-0.119	-0.124	-0.129
	Surplus/deficit capacity (Sensitivity: 5% of transfer capacity delivers recycling)	-0.033	-0.039	-0.046	-0.053	-0.061	-0.067	-0.074	-0.080	-0.086	-0.091	-0.096	-0.101	-0.106	-0.111	-0.116	-0.121	-0.127	-0.132	-0.137	-0.143
C&D recycling																					
	Total existing/planned C&D recycling capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Surplus/deficit capacity	-0.078	-0.080	-0.082	-0.084	-0.085	-0.085	-0.085	-0.085	-0.085	-0.085	-0.089	-0.092	-0.096	-0.099	-0.102	-0.102	-0.102	-0.102	-0.102	-0.102
C&D recovery																					
	REGIONAL total existing/planned C&D recovery capacity	1.794	1.710	1.627	1.544	1.460	1.439	1.418	1.398	1.377	1.356	1.325	1.293	1.262	1.231	1.199	1.220	1.241	1.262	1.283	1.304
	Surplus/deficit capacity	1.733	1.651	1.569	1.486	1.404	1.382	1.360	1.338	1.316	1.294	1.266	1.237	1.209	1.180	1.152	1.172	1.192	1.212	1.232	1.252
Hazardous waste recycling																					
	Total existing/planned hazardous waste recycling capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Surplus/deficit capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hazardous waste recovery																					
	Total existing/planned hazardous waste recovery capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Surplus/deficit capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Non-hazardous landfill																					
	Available non-hazardous landfill capacity (excluding residues from MSW and C&I recovery)	0.950	0.817	0.685	0.555	0.428	0.304	0.185	0.072	-0.036	-0.139	-0.239	-0.337	-0.433	-0.528	-0.621	-0.711	-0.801	-0.892	-0.983	-1.073
	Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'Incineration (non-specialist)'	0.950	0.813	0.677	0.543	0.411	0.281	0.156	0.036	-0.079	-0.191	-0.299	-0.407	-0.513	-0.617	-0.720	-0.821	-0.922	-1.023	-1.124	-1.224
	Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'MBT'	0.950	0.801	0.653	0.506	0.360	0.215	0.072	-0.068	-0.205	-0.341	-0.476	-0.611	-0.745	-0.879	-1.012	-1.144	-1.276	-1.407	-1.538	-1.668
	Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'RDF'	0.950	0.814	0.679	0.545	0.414	0.286	0.162	0.043	-0.070	-0.180	-0.287	-0.393	-0.497	-0.599	-0.700	-0.799	-0.898	-0.997	-1.096	-1.194
	Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'treatment'	0.950	0.805	0.661	0.518	0.376	0.236	0.099	-0.035	-0.165	-0.293	-0.420	-0.546	-0.671	-0.796	-0.919	-1.041	-1.163	-1.285	-1.406	-1.527
Inert landfill																					
	Available inert landfill capacity	0.000	-0.032	-0.063	-0.093	-0.123	-0.152	-0.180	-0.207	-0.233	-0.258	-0.282	-0.305	-0.327	-0.349	-0.370	-0.391	-0.411	-0.430	-0.448	-0.466
	Available inert landfill capacity assuming all MSW and C&I recovery by 'Incineration (non-specialist)'	0.000	-0.036	-0.071	-0.106	-0.140	-0.175	-0.209	-0.242	-0.276	-0.309	-0.342	-0.374	-0.407	-0.438	-0.470	-0.501	-0.531	-0.561	-0.589	-0.617
Hazardous landfill																					
	Available hazardous landfill capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Note: The model does not contain data for the management of hazardous waste.

DATA_01: ARISINGS AND GROWTH RATES OF MSW, C&I AND HAZARDOUS WASTE (Million Tonnes)		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	Arisings of MSW in baseline year																					
	(1) Forecast regional level growth rate of MSW - per year (%)	3.0%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%
	(1) Forecast regional level growth rate of MSW - cumulative (%)	106%	109%	111%	114%	117%	120%	122%	125%	127%	130%	133%	135%	137%	139%	141%	143%	145%	147%	149%	152%	154%
	Total arisings of MSW using regional growth forecasts	0.088	0.090	0.092	0.094	0.097	0.099	0.101	0.103	0.105	0.107	0.110	0.111	0.113	0.115	0.116	0.118	0.120	0.122	0.123	0.125	0.127
	(1) Forecast sub-regional growth rate of MSW - per year (%)	3.0%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%
	(1) Forecast sub-regional level growth rate of MSW - cumulative (%)	106%	109%	111%	114%	117%	120%	122%	125%	127%	130%	133%	135%	137%	139%	141%	143%	145%	147%	149%	152%	154%
	Total arisings of MSW using sub-regional growth forecasts	0.088	0.090	0.092	0.094	0.097	0.099	0.101	0.103	0.105	0.107	0.110	0.111	0.113	0.115	0.116	0.118	0.120	0.122	0.123	0.125	0.127
c&i	Arisings of C&I in baseline year																					
	(1) Forecast regional level growth rate of C&I - per year (%)	3.3%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.0%	1.0%	1.0%	1.0%	1.0%
	(1) Forecast regional level growth rate of C&I - cumulative (%)	117%	120%	123%	126%	130%	133%	136%	138%	141%	144%	147%	149%	151%	153%	156%	158%	160%	161%	163%	164%	166%
	Total arisings of C&I using regional growth forecasts	0.134	0.137	0.140	0.144	0.147	0.151	0.154	0.157	0.160	0.164	0.167	0.169	0.172	0.174	0.177	0.180	0.181	0.183	0.185	0.187	0.189
	(1) Forecast sub-regional level growth rate of C&I - per year (%)	3.3%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.0%	1.0%	1.0%	1.0%	1.0%
	(1) Forecast sub-regional level growth rate of C&I - cumulative (%)	117%	120%	123%	126%	130%	133%	136%	138%	141%	144%	147%	149%	151%	153%	156%	158%	160%	161%	163%	164%	166%
	Total arisings of C&I using sub-regional growth forecasts	0.134	0.137	0.140	0.144	0.147	0.151	0.154	0.157	0.160	0.164	0.167	0.169	0.172	0.174	0.177	0.180	0.181	0.183	0.185	0.187	0.189
hazardous	Arisings of hazardous waste in baseline year																					
	(2) Forecast regional level growth rate of hazardous waste - per year (%)	3.3%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.0%	1.0%	1.0%	1.0%	1.0%
	Forecast regional level growth rate of hazardous waste - cumulative (%)	107%	109%	112%	115%	118%	121%	123%	126%	128%	131%	133%	135%	137%	139%	141%	144%	145%	146%	148%	149%	151%
	Total arisings of hazardous waste	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
	(2) Forecast sub-regional level growth rate of hazardous waste - per year (%)	3.3%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.0%	1.0%	1.0%	1.0%	1.0%
	Forecast sub regional level growth rate of hazardous waste - cumulative (%)	107%	109%	112%	115%	118%	121%	123%	126%	128%	131%	133%	135%	137%	139%	141%	144%	145%	146%	148%	149%	151%
	Total arisings of hazardous waste	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
c&d	Total managed C&D in baseline year																					
	(3) Forecast regional-level growth rate of managed C&D - per year (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Forecast regional-level growth rate of managed C&D - cumulative (%)	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
	(3) Total managed of C&D for the sub-region	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171

(1) Figures from SEERA updated waste capacity model by ERM in 2005.
(2) Baseline year of hazardous waste arisings is 2003 from EA Hazardous Waste Interrogator. www.environment-agency.gov.uk/apps/wastesurvey2/. ERM has assumed that growth in hazardous waste is equal to C&I waste.
(3) These data represent managed C&D waste in the sub-region, including all intra-regional and inter-regional movements. Growth is assumed to be zero from the orginal MEL study and updated modeted by ERM in 2005.
NOTE: C&D waste is not included in arisings because this was taken from survey data by Symonds 2001 which gave values for managed C&D waste.

Isle of Wight

Figure in blue represent data supplied by each sub-region for the new '2006 SEERA Capacity and Need Model'
Figures in orange represent managed waste that are used by the model to calculate results. These can be adjusted for different scenarios.

DATA_02: INTER REGIONAL MOVEMENTS OF MSW and C&I (Million Tonnes)		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw and c&i	Regional level imports of MSW and C&I waste into the SE region from London	1.76	1.716	1.672	1.628	1.584	1.54	1.454	1.368	1.282	1.196	1.11	1.064	1.018	0.972	0.926	0.88	0.86	0.84	0.82	0.8	0.78
	Proportion of regional MSW and C&I imports that go to the sub-region (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	(1) Total imports of MSW and C&I from London into sub-region sent direct to landfill	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
msw	Proportion of total MSW and C&I imports that are MSW (%) - REGIONAL GROWTH FORECAST	40%	40%	40%	40%	40%	40%	40%	40%	40%	40%	40%	40%	40%	40%	40%	40%	40%	40%	40%	40%	40%
	Total imports of MSW into the sub-region from London - REGIONAL GROWTH FORECAST	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Proportion of total MSW and C&I imports that are MSW (%) - SUB-REGIONAL GROWTH FORECAST	40%	40%	40%	40%	40%	40%	40%	40%	40%	40%	40%	40%	40%	40%	40%	40%	40%	40%	40%	40%	40%
	Total imports of MSW into the sub-region from London - SUB-REGIONAL GROWTH FORECAST	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
c&i	Proportion of total MSW and C&I imports that are C&I (%) - REGIONAL GROWTH FORECAST	60%	60%	60%	60%	60%	60%	60%	60%	60%	60%	60%	60%	60%	60%	60%	60%	60%	60%	60%	60%	60%
	Total imports of C&I into the sub-region from London - REGIONAL GROWTH FORECAST	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Proportion of total MSW and C&I imports that are C&I (%) - SUB-REGIONAL GROWTH FORECAST	60%	60%	60%	60%	60%	60%	60%	60%	60%	60%	60%	60%	60%	60%	60%	60%	60%	60%	60%	60%	60%
	Total imports of C&I into the sub-region from London - SUB-REGIONAL GROWTH FORECAST	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

(1) Intra-regional and inter-regional movements have been excluded for MSW and C&I waste due to self-sufficiency requirements under PPS10, except for inter-regional movements from London into the sub-region. Apportionment from Policy W3 in the Plan – downloa
Note: Only a figure is available for total combined imports of MSW and C&I waste. ERM has assumed that imports of the seperate waste streams of MSW and C&I was split according to tonnage arisings of MSW and C&I in the sub-region.

DATA_03: MANAGED WASTE USED TO GENERATE RESULTS (Million Tonnes)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	0.088	0.090	0.092	0.094	0.097	0.099	0.101	0.103	0.105	0.107	0.110	0.111	0.113	0.115	0.116	0.118	0.120	0.122	0.123	0.125	0.127
msw - imports from london that are sent direct to non-hazardous landfill	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
c&i	0.134	0.137	0.140	0.144	0.147	0.151	0.154	0.157	0.160	0.164	0.167	0.169	0.172	0.174	0.177	0.180	0.181	0.183	0.185	0.187	0.189
c&I - imports from london that are sent direct to non-hazardous landfill	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
c&d	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171
hazardous	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004

DATA_04: TARGETS (% or Million Tonnes)		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	(1) landfill (Mt)	0.035	0.034	0.034	0.033	0.032	0.030	0.027	0.023	0.020	0.019	0.018	0.018	0.017	0.016	0.015	0.014	0.014	0.014	0.014	0.014	0.014
	recovered (%)	5	6.4	7.8	9.2	10.6	12	14.4	16.8	19.2	21.6	24	24.8	25.6	26.4	27.2	28	27.2	26.4	25.6	24.8	24
	recycled and composted (%)	30	32.0	34.0	36.0	38.0	40	42.0	44.0	46.0	48.0	50	51.0	52.0	53.0	54.0	55	56.0	57.0	58.0	59.0	60
c&i	recovered (%)	14	14.2	14.4	14.6	14.8	15	16.0	17.0	18.0	19.0	20	20.2	20.4	20.6	20.8	21	20.6	20.2	19.8	19.4	19
	recycled and composted (%)	40	42.0	44.0	46.0	48.0	50	51.0	52.0	53.0	54.0	55	56.0	57.0	58.0	59.0	60	61.0	62.0	63.0	64.0	65
c&d	recovered (%)	36	35.4	34.8	34.2	33.6	33	33.6	34.2	34.8	35.4	36	34.4	32.8	31.2	29.6	28	28.4	28.8	29.2	29.6	30
	recycled (%)	45	46.0	47.0	48.0	49.0	50	50.0	50.0	50.0	50.0	50	52.0	54.0	56.0	58.0	60	60.0	60.0	60.0	60.0	60
hazardous	landfill (%)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	recovered (%)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	recycled (%)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

(1) ERM has assumed that the LATS target allowance remains constant at the 2020 value for the years beyond 2020

DATA_05: WASTE STREAM TONNAGES TO MEET TARGETS (Million Tonnes)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025

This first section of DATA_03 calculates if there is a LATS shortfall or suplus in each year. If there is a LATS shortfall (ie insufficient allowance to landfill non-diverted waste) then the model assumes that this extra waste is recycled/composted and r

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	Total MSW to be recovered and recycled/composted to meet target	0.031	0.035	0.039	0.043	0.047	0.052	0.057	0.063	0.069	0.075	0.081	0.084	0.088	0.091	0.094	0.098	0.100	0.101	0.103	0.105	0.107
	Total MSW not-diverted by targets	0.057	0.055	0.054	0.052	0.050	0.048	0.044	0.040	0.037	0.033	0.028	0.027	0.025	0.024	0.022	0.020	0.020	0.020	0.020	0.020	0.020
	Percentage of MSW that is biodegradable (% by weight)	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68
	Total BMW not-diverted by targets	0.039	0.038	0.036	0.035	0.034	0.032	0.030	0.028	0.025	0.022	0.019	0.018	0.017	0.016	0.015	0.014	0.014	0.014	0.014	0.014	0.014
	LATS shortfall (how much extra is landfilled above LATS target)	0.004	0.003	0.003	0.002	0.002	0.002	0.003	0.004	0.005	0.003	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Ratio of 'recovered' to 'recycled/composted' for target (%)	14%	17%	19%	20%	22%	23%	26%	28%	29%	31%	32%	33%	33%	33%	33%	34%	33%	32%	31%	30%	29%
	Extra MSW 'recovery' needed due to LATS shortfall	*0.001*	*0.001*	*0.001*	*0.000*	*0.000*	*0.001*	*0.001*	*0.001*	*0.001*	*0.001*	*0.000*	*0.000*	*0.000*	*0.000*	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Extra MSW 'recycling/composting' needed due to LATS shortfall	*0.003*	*0.003*	*0.002*	*0.002*	*0.002*	*0.002*	*0.002*	*0.003*	*0.003*	*0.002*	*0.001*	*0.001*	*0.000*	*0.000*	0.000	0.000	0.000	0.000	0.000	0.000	0.000

The section below in DATA_03 shows the tonnages by waste to meet targets.

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	Recycling and composting target	0.030	0.031	0.034	0.036	0.039	0.041	0.045	0.048	0.052	0.054	0.055	0.057	0.059	0.061	0.063	0.065	0.067	0.069	0.072	0.074	0.076
	Recovery target	0.005	0.006	0.008	0.009	0.011	0.012	0.015	0.018	0.022	0.024	0.027	0.028	0.029	0.030	0.032	0.033	0.033	0.032	0.032	0.031	0.031
	Non-hazardous landfill	0.053	0.052	0.051	0.049	0.048	0.045	0.041	0.036	0.032	0.030	0.028	0.026	0.025	0.023	0.022	0.020	0.020	0.020	0.020	0.020	0.020
	CHECK COUNTER (should be zero)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
c&i	Recycling and composting target	0.053	0.057	0.062	0.066	0.071	0.076	0.079	0.082	0.085	0.088	0.092	0.095	0.098	0.101	0.104	0.108	0.111	0.114	0.117	0.120	0.123
	Recovery target	0.019	0.019	0.020	0.021	0.022	0.023	0.025	0.027	0.029	0.031	0.033	0.034	0.035	0.036	0.037	0.038	0.037	0.037	0.037	0.036	0.036
	Non-hazardous landfill	0.061	0.060	0.058	0.057	0.055	0.053	0.051	0.049	0.046	0.044	0.042	0.040	0.039	0.037	0.036	0.034	0.033	0.033	0.032	0.031	0.030
	CHECK COUNTER (should be zero)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
c&d	Recycling target	0.077	0.078	0.080	0.082	0.084	0.085	0.085	0.085	0.085	0.085	0.085	0.089	0.092	0.096	0.099	0.102	0.102	0.102	0.102	0.102	0.102
	Recovery target	0.061	0.060	0.059	0.058	0.057	0.056	0.057	0.058	0.059	0.060	0.061	0.059	0.056	0.053	0.051	0.048	0.048	0.049	0.050	0.051	0.051
	Inert landfill	0.032	0.032	0.031	0.030	0.030	0.029	0.028	0.027	0.026	0.025	0.024	0.023	0.023	0.022	0.021	0.020	0.020	0.019	0.018	0.018	0.017
	CHECK COUNTER (should be zero)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
hazardous	Hazardous waste	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004

DATA_06: TOTAL WASTE TONNAGES TO MEET TARGETS (Million Tonnes)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
MSW and C&I recycling and composting target	0.083	0.089	0.095	0.102	0.109	0.117	0.123	0.130	0.137	0.142	0.147	0.152	0.157	0.162	0.167	0.173	0.178	0.183	0.188	0.194	0.199
C&D recycling target	0.077	0.078	0.080	0.082	0.084	0.085	0.085	0.085	0.085	0.085	0.085	0.089	0.092	0.096	0.099	0.102	0.102	0.102	0.102	0.102	0.102
MSW and C&I recovery target	0.024	0.026	0.028	0.030	0.033	0.035	0.040	0.045	0.051	0.055	0.060	0.062	0.064	0.066	0.068	0.071	0.070	0.069	0.068	0.067	0.066
C&D recovery target	0.061	0.060	0.059	0.058	0.057	0.056	0.057	0.058	0.059	0.060	0.061	0.059	0.056	0.053	0.051	0.048	0.048	0.049	0.050	0.051	0.051
Non-hazardous landfill	0.115	0.112	0.109	0.106	0.102	0.098	0.092	0.085	0.078	0.074	0.069	0.066	0.064	0.061	0.058	0.054	0.054	0.053	0.052	0.051	0.051
Inert landfill	0.032	0.032	0.031	0.030	0.030	0.029	0.028	0.027	0.026	0.025	0.024	0.023	0.023	0.022	0.021	0.020	0.020	0.019	0.018	0.018	0.017
Hazardous waste	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004

Isle of Wight

CHART_01

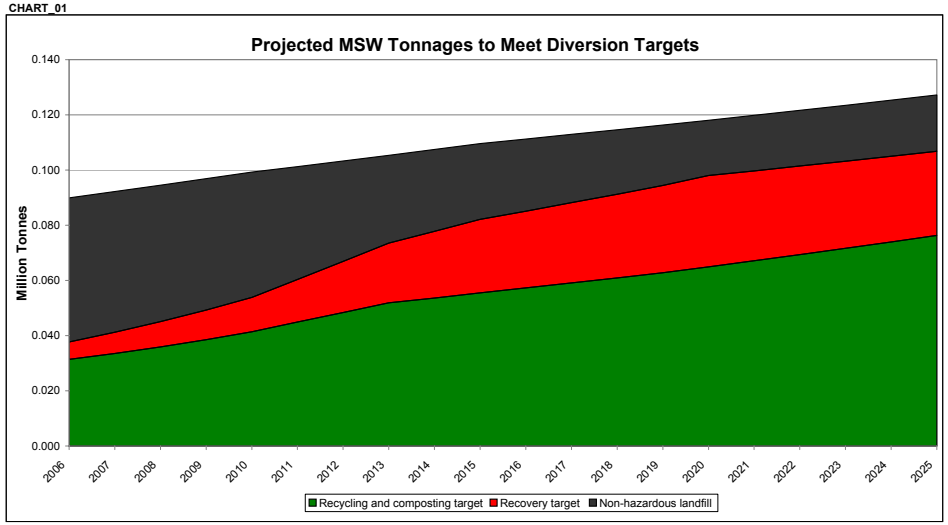
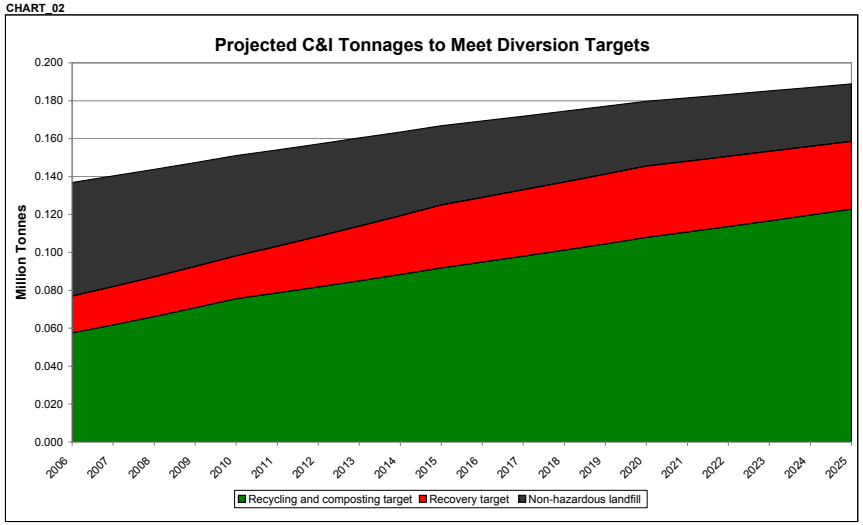


CHART_02



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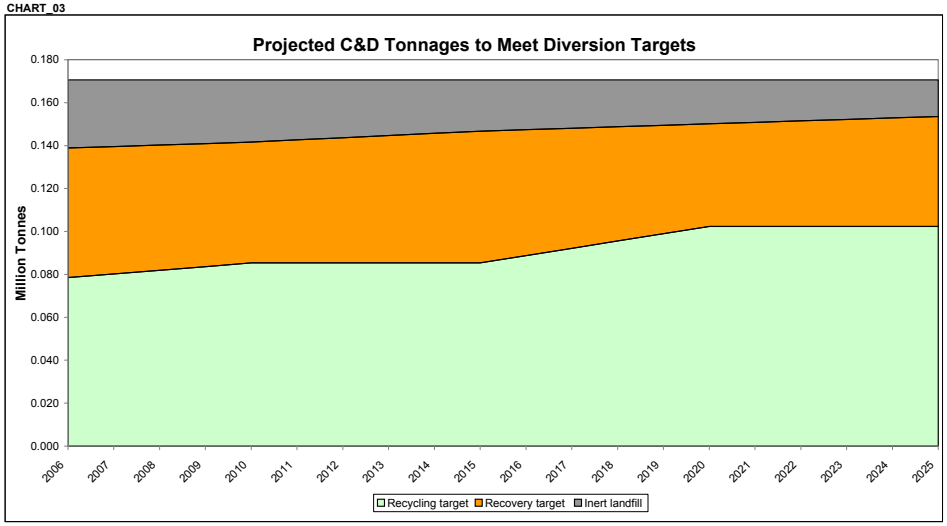

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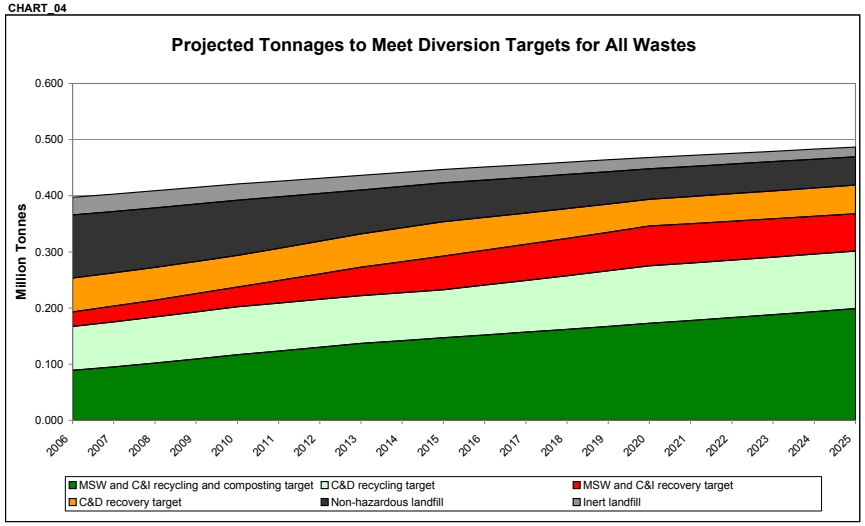
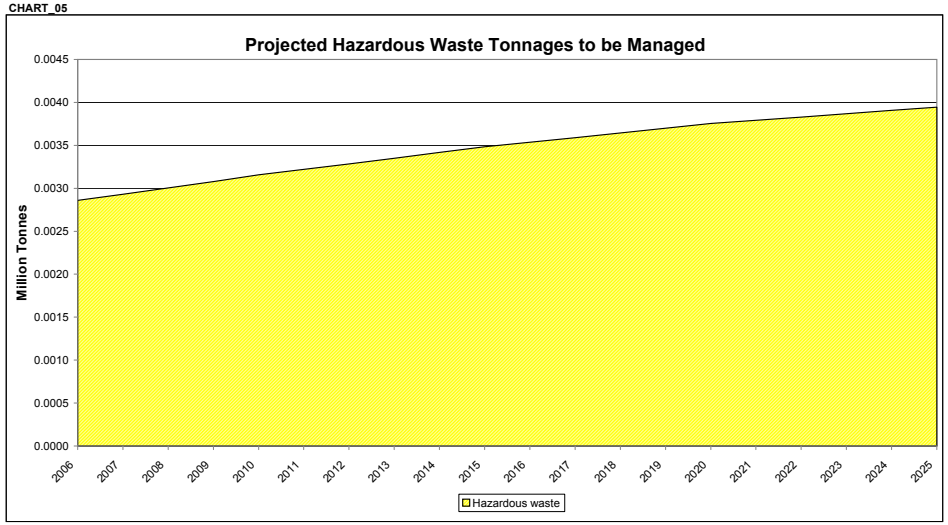


Isle of Wright

CHART_05



DATA_07: EXISTING/PLANNED CAPACITY FOR RECYCLING, RECOVERY AND LANDFILLING AND TOTAL WASTE TONNAGES TO EACH DISPOSAL ROUTE (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
MSW and C&I recovery																					
MSW and C&I incineration (non-specialist)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
MSW and C&I treatment	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080
Total existing/planned MSW and C&I recovery capacity	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080
Total MSW waste required to meet target	0.005	0.006	0.008	0.009	0.011	0.012	0.015	0.018	0.022	0.024	0.027	0.028	0.029	0.030	0.032	0.033	0.033	0.032	0.032	0.031	0.031
Total C&I waste required to meet target	0.019	0.019	0.020	0.021	0.022	0.023	0.025	0.027	0.029	0.031	0.033	0.034	0.035	0.036	0.037	0.038	0.037	0.037	0.037	0.036	0.036
Surplus/deficit capacity	0.056	0.054	0.052	0.050	0.047	0.045	0.040	0.035	0.029	0.025	0.020	0.018	0.016	0.014	0.012	0.009	0.010	0.011	0.012	0.013	0.014
MSW and C&I recycling and composting																					
MSW and C&I recycling	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
MSW and C&I transfer	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088
Total existing/planned MSW and C&I composting capacity	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052
(1) Total existing/planned MSW and C&I recycling and composting capacity (Baseline: 20% of transfer capacity delivers recycling)	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070
(2) Total existing/planned MSW and C&I recycling and composting capacity (Sensitivity: 5% of transfer capacity delivers recycling)	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056
Total MSW waste required to meet recycling and composting target	0.030	0.031	0.034	0.036	0.039	0.041	0.045	0.048	0.052	0.054	0.055	0.057	0.059	0.061	0.063	0.065	0.067	0.069	0.072	0.074	0.076
Total C&I waste required to meet recycling and composting target	0.053	0.057	0.062	0.066	0.071	0.076	0.079	0.082	0.085	0.088	0.092	0.095	0.098	0.101	0.104	0.108	0.111	0.114	0.117	0.120	0.123
Surplus/deficit capacity (Baseline: 20% of transfer capacity delivers recycling)	-0.013	-0.019	-0.026	-0.032	-0.040	-0.047	-0.054	-0.061	-0.067	-0.072	-0.078	-0.082	-0.087	-0.092	-0.098	-0.103	-0.108	-0.113	-0.119	-0.124	-0.129
Surplus/deficit capacity (Sensitivity: 5% of transfer capacity delivers recycling)	-0.027	-0.033	-0.039	-0.046	-0.053	-0.061	-0.067	-0.074	-0.080	-0.086	-0.091	-0.096	-0.101	-0.106	-0.111	-0.116	-0.121	-0.127	-0.132	-0.137	-0.143
C&D recycling																					
Total existing/planned C&D recycling capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total waste required to meet C&D recycling target	0.077	0.078	0.080	0.082	0.084	0.085	0.085	0.085	0.085	0.085	0.085	0.089	0.092	0.096	0.099	0.102	0.102	0.102	0.102	0.102	0.102
Surplus/deficit capacity	-0.077	-0.078	-0.080	-0.082	-0.084	-0.085	-0.085	-0.085	-0.085	-0.085	-0.085	-0.089	-0.092	-0.096	-0.099	-0.102	-0.102	-0.102	-0.102	-0.102	-0.102
C&D recovery																					
(3) REGIONAL total existing/planned C&D recovery capacity	1.877	1.794	1.710	1.627	1.544	1.460	1.439	1.418	1.398	1.377	1.356	1.325	1.293	1.262	1.231	1.199	1.220	1.241	1.262	1.283	1.304
Sub-regional total waste required to meet C&D recovery target	0.061	0.060	0.059	0.058	0.057	0.056	0.057	0.058	0.059	0.060	0.061	0.059	0.056	0.053	0.051	0.048	0.048	0.049	0.050	0.051	0.051
Surplus/deficit capacity	1.816	1.733	1.651	1.569	1.486	1.404	1.382	1.360	1.338	1.316	1.294	1.266	1.237	1.209	1.180	1.152	1.172	1.192	1.212	1.232	1.252
Hazardous waste recycling																					
Total existing/planned hazardous waste recycling capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total hazardous waste to be recycled	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Surplus/deficit capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hazardous waste recovery																					
Total existing/planned hazardous waste recovery capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total hazardous waste to be recovered	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Surplus/deficit capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Non-hazardous landfill																					
Available non-hazardous landfill capacity (excluding residues from MSW and C&I recovery)		0.950	0.817	0.685	0.555	0.428	0.304	0.185	0.072	-0.036	-0.139	-0.239	-0.337	-0.433	-0.528	-0.621	-0.711	-0.801	-0.892	-0.983	-1.073
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'Incineration (non-specialist)'		0.950	0.813	0.677	0.543	0.411	0.281	0.156	0.036	-0.079	-0.191	-0.299	-0.407	-0.513	-0.617	-0.720	-0.821	-0.922	-1.023	-1.124	-1.224
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'MBT'		0.950	0.801	0.653	0.506	0.360	0.215	0.072	-0.068	-0.205	-0.341	-0.476	-0.611	-0.745	-0.879	-1.012	-1.144	-1.276	-1.407	-1.538	-1.668
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'RDF'		0.950	0.814	0.679	0.545	0.414	0.286	0.162	0.043	-0.070	-0.180	-0.287	-0.393	-0.497	-0.599	-0.700	-0.799	-0.898	-0.997	-1.096	-1.194
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'treatment'		0.950	0.805	0.661	0.518	0.376	0.236	0.099	-0.035	-0.165	-0.293	-0.420	-0.546	-0.671	-0.796	-0.919	-1.041	-1.163	-1.285	-1.406	-1.527
Total MSW and C&I waste sent direct to non-hazardous landfill		0.112	0.109	0.106	0.102	0.098	0.092	0.085	0.078	0.074	0.069	0.066	0.064	0.061	0.058	0.054	0.054	0.053	0.052	0.051	0.051
Inert landfill																					
Available inert landfill capacity		0.000	-0.032	-0.063	-0.093	-0.123	-0.152	-0.180	-0.207	-0.233	-0.258	-0.282	-0.305	-0.327	-0.349	-0.370	-0.391	-0.411	-0.430	-0.448	-0.466
Available inert landfill capacity assuming all MSW and C&I recovery by 'Incineration (non-specialist)'		0.000	-0.036	-0.071	-0.106	-0.140	-0.175	-0.209	-0.242	-0.276	-0.309	-0.342	-0.374	-0.407	-0.438	-0.470	-0.501	-0.531	-0.561	-0.589	-0.617
Total C&D waste sent direct to inert landfill	0.032	0.032	0.031	0.030	0.030	0.029	0.028	0.027	0.026	0.025	0.024	0.023	0.023	0.022	0.021	0.020	0.020	0.019	0.018	0.018	0.017
Hazardous landfill																					
Available hazardous landfill capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total hazardous waste sent direct to hazardous landfill	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Other																					
Metal/ELV facility	0.102	0.102	0.102	0.102	0.102	0.102	0.102	0.102	0.102	0.102	0.102	0.102	0.102	0.102	0.102	0.102	0.102	0.102	0.102	0.102	0.102
Ignored	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Closed	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

(1) ERM has assumed that 20% of the total 'transfer' capacity will deliver recycling capacity
(2) ERM has assumed that 5% of the total 'transfer' capacity will deliver recycling capacity
(3) Data for C&D recovery for landfill cover for the SE Region were sourced from the original MEL model, which sourced the data from Symonds (2001)
Note:

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DATA_08: RESIDUE RATES (%)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Recovery residues (% by weight)																					
MSW and C&I incineration (non-specialist) - bottom ash	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
MSW and C&I incineration (non-specialist) - fly ash	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
MSW and C&I to MBT	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59
MSW and C&I to RDF	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
MSW and C&I treatment - non-hazardous	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45
MSW and C&I treatment - hazardous	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Hazardous waste recovery	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Recycling residues (% by weight)																					
MSW and C&I recycling	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
MSW and C&I transfer	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
MSW and C&I composting	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
C&D recycling	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Hazardous waste recycling	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Other																					
Metal/ELV facility	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Ignored	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Closed	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Note: All residues are calculated on the amount of waste arising not on the maount of capacity available. This is complaince with the self-sufficiency requirements of PPS10.

DATA_09: TOTAL RESIDUE (Million Tonnes)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Recovery residues (of waste managed):																					
MSW and C&I incineration (non-specialist) - bottom ash	0.007	0.008	0.008	0.009	0.010	0.011	0.012	0.014	0.015	0.017	0.018	0.019	0.019	0.020	0.021	0.021	0.021	0.021	0.020	0.020	0.020
MSW and C&I incineration (non-specialist) - fly ash	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
MSW and C&I to MBT	0.014	0.015	0.016	0.018	0.019	0.021	0.024	0.027	0.030	0.033	0.035	0.037	0.038	0.039	0.040	0.042	0.041	0.041	0.040	0.040	0.039
MSW and C&I to RDF	0.003	0.003	0.003	0.004	0.004	0.004	0.005	0.005	0.006	0.007	0.007	0.007	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
MSW and C&I treatment - non-hazardous	0.011	0.012	0.013	0.014	0.015	0.016	0.018	0.020	0.023	0.025	0.027	0.028	0.029	0.030	0.031	0.032	0.031	0.031	0.031	0.030	0.030
MSW and C&I treatment - hazardous	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.004	0.003	0.003	0.003	0.003	0.003
Hazardous waste recovery	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Recycling residues (of waste managed):																					
MSW and C&I recycling and composting	0.012	0.013	0.014	0.015	0.016	0.018	0.019	0.020	0.021	0.021	0.022	0.023	0.024	0.024	0.025	0.026	0.027	0.027	0.028	0.029	0.030
C&D recycling	0.008	0.008	0.008	0.008	0.008	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
Hazardous waste recycling	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Note: All residues are calculated on the amount of waste arising not on the maount of capacity available. This is complaince with the self-sufficiency requirements of PPS10.

DATA_10: TOTAL MSW AND C&I RESIDUE FROM RECYCLING SENT TO NON-HAZARDOUS LANDFILL (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Total MSW and C&I recycling and composting residue sent to non-hazardous landfill	0.020	0.021	0.022	0.024	0.025	0.026	0.027	0.028	0.029	0.030	0.031	0.032	0.033	0.034	0.035	0.036	0.037	0.038	0.038	0.039	0.040

DATA_11: TOTAL MSW AND C&I RESIDUE FROM RECOVERY SENT TO NON-HAZARDOUS LANDFILL AND C&D RECYCLING (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
SCENARIO 1 - Assumes all recovery is by 'Non-specialist incineration' (based on total recovery capacity)																					
(1) Total MSW and C&I residue sent to non-hazardous landfill assuming all MSW and C&I recovery by 'Non-specialist incineration'	0.004	0.004	0.004	0.005	0.005	0.005	0.006	0.007	0.008	0.008	0.009	0.009	0.010	0.010	0.010	0.011	0.010	0.010	0.010	0.010	0.010
(1) Total MSW and C&I residue sent to inert landfill assuming all MSW and C&I recovery by 'Non-specialist incineration'	0.004	0.004	0.004	0.005	0.005	0.005	0.006	0.007	0.008	0.008	0.009	0.009	0.010	0.010	0.010	0.011	0.010	0.010	0.010	0.010	0.010
SCENARIO 2 - Assumes all recovery is by 'MBT' (based on total recovery capacity)																					
Total MSW and C&I residue sent to non-hazardous landfill	0.014	0.015	0.016	0.018	0.019	0.021	0.024	0.027	0.030	0.033	0.035	0.037	0.038	0.039	0.040	0.042	0.041	0.041	0.040	0.040	0.039
SCENARIO 3 - Assumes all recovery is by 'RDF' (based on total recovery capacity)																					
Total MSW and C&I residue sent to non-hazardous landfill	0.003	0.003	0.003	0.004	0.004	0.004	0.005	0.005	0.006	0.007	0.007	0.007	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
SCENARIO 4 - Assumes all recovery is by 'treatment' (based on total recovery capacity)																					
Total MSW and C&I residue sent to non-hazardous landfill	0.011	0.012	0.013	0.014	0.015	0.016	0.018	0.020	0.023	0.025	0.027	0.028	0.029	0.030	0.031	0.032	0.031	0.031	0.031	0.030	0.030

(1) It was assumed that 50% of residue from 'non-specialist incineration' is sent to non-hazardous landfill and 50% is sent to inert landfill. In the original model assumptions developed MEL 50% was assumed to go to C&D recycling, rather than to inert landfi

DATA_12: TONNAGES OF C&D REUSED ON NON-HAZARDOUS AND INERT LANDFILL (Million Tonnes)

(1) C&D reused on landfill sites	39	%
(1) C&D reused on exempt sites	61	%
(1) C&D reused on landfill sites sent to 'non-haz landfill'	30	%
(1) C&D reused on landfill sites sent to 'inert landfill'	70	%

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
c&d	Total C&D reused on non-hazardous landfill	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006
	Total reused C&D on inert landfill	0.017	0.016	0.016	0.016	0.016	0.015	0.016	0.016	0.016	0.016	0.017	0.016	0.015	0.014	0.014	0.013	0.013	0.013	0.014	0.014	0.014

(1) C&D reuse rates based on original model assumptions developed MEL
NOTE: C&D reuse on inert and non-hazardous landfill is not included within the charts because it has been assumed that data supplied by each sub-region has accounted for C&D reuse as an engineering material.

DATA_13: TOTAL MSW AND C&I RESIDUE FROM RECYCLING SENT TO HAZARDOUS LANDFILL (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Total MSW and C&I recycling and composting residue sent to hazardous landfill	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

DATA_14: TOTAL MSW AND C&I RESIDUE FROM RECOVERY SENT TO HAZARDOUS LANDFILL (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
SCENARIO 1 - Assumes all recovery is by 'Non-specialist incineration' (based on total recovery capacity)																					
Total MSW and C&I residue sent to hazardous landfill assuming all MSW and C&I recovery by 'Non-specialist incineration'	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
SCENARIO 2 - Assumes all recovery is by 'MBT' (based on total recovery capacity)																					
Total MSW and C&I residue sent to hazardous landfill	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SCENARIO 3 - Assumes all recovery is by 'RDF' (based on total recovery capacity)																					
Total MSW and C&I residue sent to hazardous landfill	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SCENARIO 4 - Assumes all recovery is by 'treatment' (based on total recovery capacity)																					
Total MSW and C&I residue sent to hazardous landfill	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.004	0.003	0.003	0.003	0.003	0.003

NOTE: This element of the model is redundant. There is currently no hazardous waste capacity figures to generate a chart of managed waste versus available capacity.

DATA_15: TOTAL HAZARDOUS WASTE RESIDUE FROM RECOVERY AND RECYCLING SENT TO HAZARDOUS LANDFILL (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Total hazardous waste recycling and recovery residue sent to hazardous landfill	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Isle of Wight

CHART_06

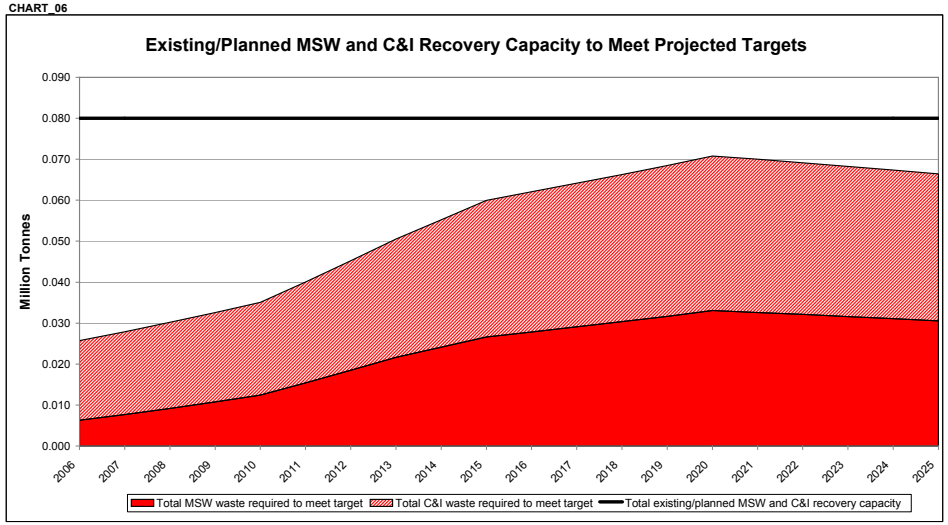


CHART_07

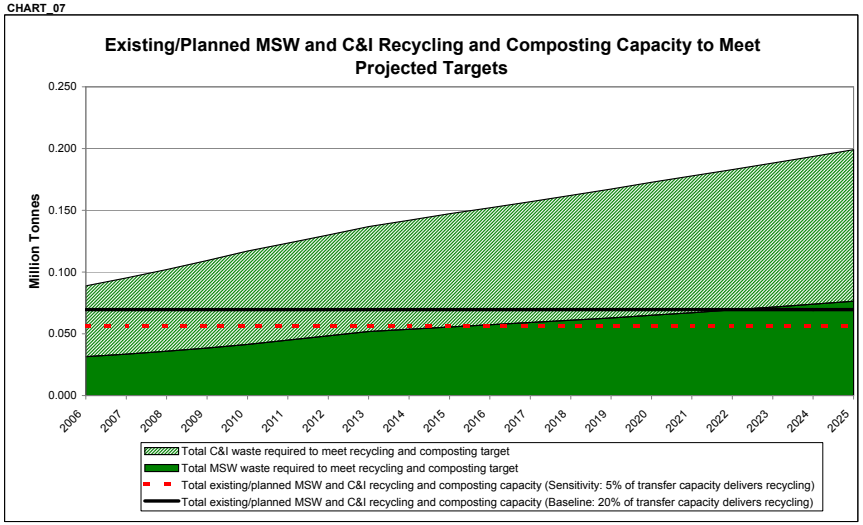
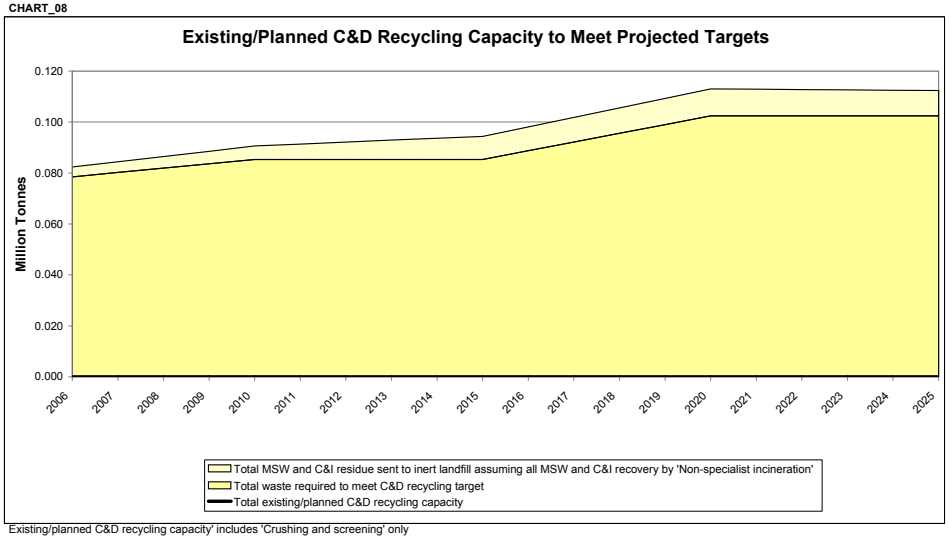


CHART_08



Existing/planned C&D recycling capacity' includes 'Crushing and screening' only
NOTE: This capacity does not represent the quantity of material that is recycled.
NOTE: Residue from MSW and C&I recovery is based on existing/planned capacity (not waste tonnage to meet recovery target)

Isle of Wight

CHART_09

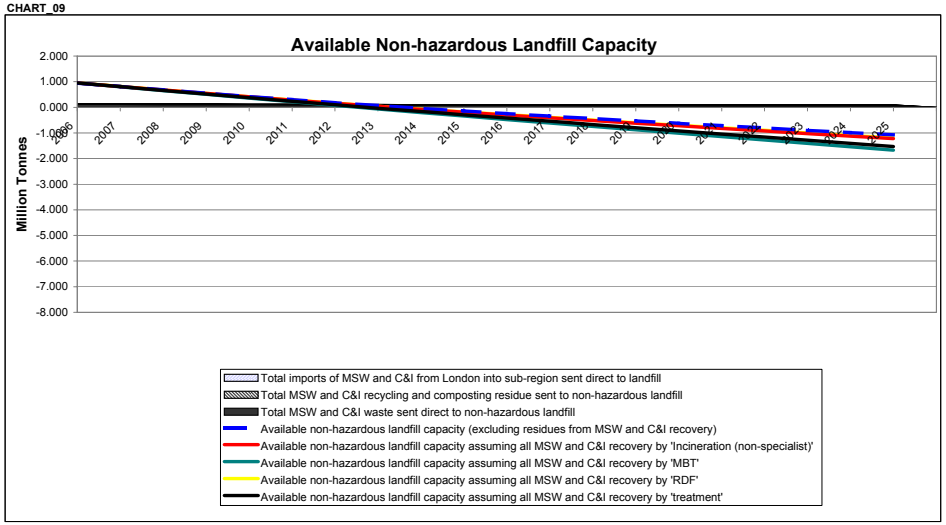
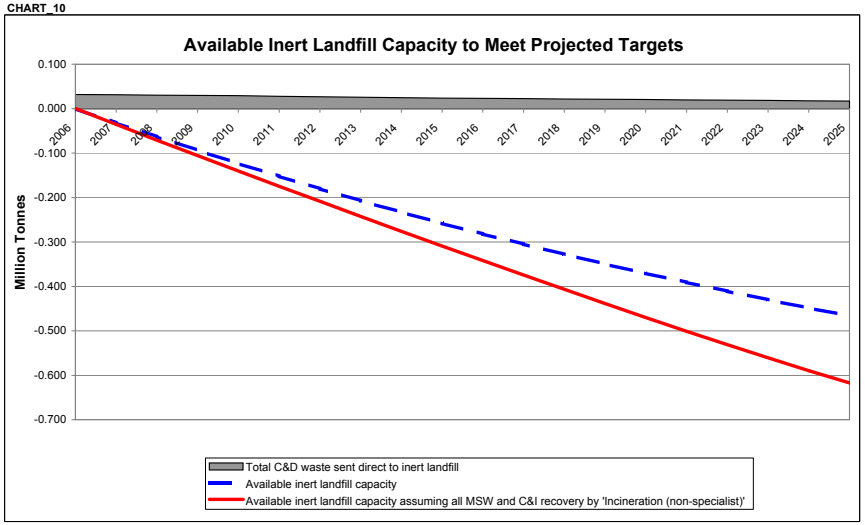


CHART_10



NOTE: The graph assumes that the baseline capacity for non-hazardous landfill has accounted for C&D reuse as a landfill engineering material.

Kent

SUMMARY DATA AND RESULTS FOR KENT

MANAGED WASTE USED TO GENERATE RESULTS (Million Tonnes)	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	0.875	0.897	0.919	0.942	0.966	0.985	1.005	1.025	1.045	1.066	1.082	1.098	1.115	1.131	1.148	1.166	1.183	1.201	1.219	1.237
msw - imports from london that are sent direct to non-hazardous landfill	0.061	0.060	0.058	0.057	0.055	0.052	0.049	0.046	0.043	0.040	0.038	0.036	0.035	0.033	0.031	0.031	0.030	0.030	0.029	0.028
c&i	1.872	1.919	1.967	2.016	2.067	2.108	2.150	2.193	2.237	2.282	2.316	2.351	2.386	2.422	2.458	2.483	2.507	2.532	2.558	2.583
c&i - imports from london that are sent direct to non-hazardous landfill	0.131	0.128	0.125	0.121	0.118	0.111	0.105	0.098	0.092	0.085	0.081	0.078	0.074	0.071	0.067	0.066	0.064	0.062	0.061	0.059
c&d	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600
hazardous	0.108	0.111	0.113	0.116	0.119	0.122	0.124	0.126	0.129	0.132	0.134	0.136	0.138	0.140	0.142	0.143	0.145	0.146	0.148	0.149

WASTE STREAM TONNAGES TO MEET TARGETS (Million Tonnes)		2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	LATS shortfall (how much extra is landfilled above LATS target)	-0.047	-0.038	-0.023	-0.002	0.025	0.034	0.042	0.049	0.031	0.012	0.010	0.007	0.004	0.001	-0.003	-0.002	-0.002	-0.001	-0.001	-0.001
	Recycling and composting target	0.280	0.305	0.331	0.358	0.405	0.439	0.473	0.506	0.523	0.541	0.558	0.576	0.594	0.612	0.632	0.653	0.674	0.697	0.719	0.742
	Recovery target	0.056	0.070	0.085	0.100	0.122	0.151	0.180	0.211	0.235	0.260	0.271	0.284	0.296	0.308	0.322	0.317	0.312	0.307	0.302	0.297
	Non-hazardous landfill	0.539	0.522	0.504	0.484	0.439	0.395	0.352	0.307	0.287	0.265	0.252	0.239	0.225	0.212	0.195	0.196	0.196	0.197	0.197	0.198
c&i	Recycling and composting target	0.786	0.844	0.905	0.968	1.033	1.075	1.118	1.162	1.208	1.255	1.297	1.340	1.384	1.429	1.475	1.514	1.555	1.595	1.637	1.679
	Recovery target	0.266	0.276	0.287	0.298	0.310	0.337	0.366	0.395	0.425	0.456	0.468	0.480	0.491	0.504	0.516	0.511	0.506	0.501	0.496	0.491
	Non-hazardous landfill	0.820	0.798	0.775	0.750	0.723	0.696	0.667	0.636	0.604	0.570	0.551	0.531	0.511	0.489	0.467	0.457	0.446	0.436	0.425	0.413
c&d	Recycling target	1.196	1.222	1.248	1.274	1.300	1.300	1.300	1.300	1.300	1.300	1.352	1.404	1.456	1.508	1.560	1.560	1.560	1.560	1.560	1.560
	Recovery target	0.920	0.905	0.889	0.874	0.858	0.874	0.889	0.905	0.920	0.936	0.894	0.853	0.811	0.770	0.728	0.738	0.749	0.759	0.770	0.780
	Inert landfill	0.484	0.473	0.463	0.452	0.442	0.426	0.411	0.395	0.380	0.364	0.354	0.343	0.333	0.322	0.312	0.302	0.291	0.281	0.270	0.260
hazardous	Hazardous waste	0.108	0.111	0.113	0.116	0.119	0.122	0.124	0.126	0.129	0.132	0.134	0.136	0.138	0.140	0.142	0.143	0.145	0.146	0.148	0.149

Note: If there is a LATS shortfall, denoted by a positive number, (ie insufficient allowance to landfill non-diverted waste) then the model assumes that this extra waste is recycled/composted and recovered at the same ratio as the regional targets for recycling/composting and recovery for that year.

EXISTING/PLANNED CAPACITY FOR RECYCLING, RECOVERY AND LANDFILLING AND TOTAL WASTE TONNAGES TO EACH DISPOSAL ROUTE (Million Tonnes)	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
MSW and C&I recovery																				
Total existing/planned MSW and C&I recovery capacity	0.230	0.230	0.230	0.230	0.230	0.230	0.230	0.230	0.230	0.230	0.230	0.230	0.230	0.230	0.230	0.230	0.230	0.230	0.230	0.230
Surplus/deficit capacity	-0.092	-0.116	-0.142	-0.168	-0.202	-0.258	-0.316	-0.376	-0.430	-0.486	-0.509	-0.533	-0.557	-0.582	-0.608	-0.599	-0.589	-0.579	-0.569	-0.558
MSW and C&I recycling and composting																				
Total existing/planned MSW and C&I recycling and composting capacity (Baseline: 20% of transfer capacity delivers recycling)	0.770	0.770	0.770	0.770	0.770	0.770	0.770	0.770	0.770	0.770	0.770	0.770	0.770	0.770	0.770	0.770	0.770	0.770	0.770	0.770
Total existing/planned MSW and C&I recycling and composting capacity (Sensitivity: 5% of transfer capacity delivers recycling)	0.506	0.506	0.506	0.506	0.506	0.506	0.506	0.506	0.506	0.506	0.506	0.506	0.506	0.506	0.506	0.506	0.506	0.506	0.506	0.506
Surplus/deficit capacity (Baseline: 20% of transfer capacity delivers recycling)	-0.296	-0.379	-0.465	-0.555	-0.668	-0.744	-0.820	-0.898	-0.961	-1.025	-1.085	-1.145	-1.207	-1.270	-1.336	-1.397	-1.459	-1.522	-1.586	-1.651
Surplus/deficit capacity (Sensitivity: 5% of transfer capacity delivers recycling)	-0.560	-0.643	-0.730	-0.820	-0.933	-1.008	-1.085	-1.162	-1.225	-1.290	-1.349	-1.410	-1.472	-1.535	-1.601	-1.661	-1.723	-1.786	-1.850	-1.916
C&D recycling																				
Total existing/planned C&D recycling capacity	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065
Surplus/deficit capacity	-1.131	-1.157	-1.183	-1.209	-1.235	-1.235	-1.235	-1.235	-1.235	-1.235	-1.287	-1.339	-1.391	-1.443	-1.495	-1.495	-1.495	-1.495	-1.495	-1.495
C&D recovery																				
REGIONAL total existing/planned C&D recovery capacity	1.794	1.710	1.627	1.544	1.460	1.439	1.418	1.398	1.377	1.356	1.325	1.293	1.262	1.231	1.199	1.220	1.241	1.262	1.283	1.304
Surplus/deficit capacity	0.873	0.806	0.738	0.670	0.602	0.566	0.529	0.493	0.456	0.420	0.430	0.440	0.451	0.461	0.471	0.482	0.492	0.503	0.513	0.524
Hazardous waste recycling																				
Total existing/planned hazardous waste recycling capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Surplus/deficit capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hazardous waste recovery																				
Total existing/planned hazardous waste recovery capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Surplus/deficit capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Non-hazardous landfill																				
Available non-hazardous landfill capacity (excluding residues from MSW and C&I recovery)	7.275	5.444	3.641	1.870	0.131	-1.549	-3.161	-4.701	-6.169	-7.583	-8.943	-10.279	-11.592	-12.879	-14.141	-15.374	-16.604	-17.831	-19.056	-20.277
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'Incineration (non-specialist)'	7.275	5.396	3.541	1.714	-0.084	-1.830	-3.514	-5.136	-6.695	-8.209	-9.676	-11.123	-12.550	-13.955	-15.339	-16.697	-18.052	-19.402	-20.748	-22.089
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'MBT'	7.275	5.254	3.247	1.256	-0.717	-2.652	-4.551	-6.414	-8.239	-10.043	-11.826	-13.598	-15.361	-17.112	-18.853	-20.580	-22.299	-24.010	-25.712	-27.404
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'RDF'	7.275	5.405	3.561	1.745	-0.041	-1.774	-3.443	-5.049	-6.590	-8.084	-9.529	-10.954	-12.358	-13.740	-15.099	-16.433	-17.762	-19.088	-20.410	-21.727
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'treatment'	7.275	5.299	3.341	1.402	-0.516	-2.391	-4.221	-6.007	-7.748	-9.460	-11.142	-12.811	-14.466	-16.108	-17.735	-19.345	-20.948	-22.544	-24.132	-25.713
Inert landfill																				
Available inert landfill capacity	27.337	26.853	26.380	25.917	25.465	25.023	24.597	24.186	23.791	23.411	23.047	22.693	22.350	22.017	21.695	21.383	21.081	20.790	20.509	20.239
Available inert landfill capacity assuming all MSW and C&I recovery by 'Incineration (non-specialist)'	27.337	26.805	26.280	25.761	25.249	24.742	24.243	23.750	23.264	22.785	22.314	21.850	21.392	20.941	20.497	20.059	19.633	19.219	18.817	18.427
Hazardous landfill																				
Available hazardous landfill capacity	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309

Note: The model does not contain data for the management of hazardous waste.

DATA_01: ARISINGS AND GROWTH RATES OF MSW, C&I AND HAZARDOUS WASTE (Million Tonnes)		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	Arisings of MSW in baseline year																					
	(1) Forecast regional level growth rate of MSW - per year (%)	3.0%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%
	(1) Forecast regional level growth rate of MSW - cumulative (%)	109%	112%	115%	118%	121%	124%	126%	129%	131%	134%	136%	139%	141%	143%	145%	147%	149%	151%	154%	156%	158%
	Total arisings of MSW using regional growth forecasts	0.853	0.875	0.897	0.919	0.942	0.966	0.985	1.005	1.025	1.045	1.066	1.082	1.098	1.115	1.131	1.148	1.166	1.183	1.201	1.219	1.237
	(1) Forecast sub-regional growth rate of MSW - per year (%)	3.0%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	0.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%
	(1) Forecast sub-regional level growth rate of MSW - cumulative (%)	110%	113%	116%	119%	122%	125%	127%	130%	132%	135%	138%	140%	142%	144%	145%	147%	149%	151%	153%	156%	158%
	Total arisings of MSW using sub-regional growth forecasts	0.860	0.882	0.904	0.926	0.949	0.973	0.993	1.012	1.033	1.053	1.074	1.090	1.107	1.123	1.129	1.146	1.163	1.181	1.198	1.216	1.235
c&i	Arisings of C&I in baseline year																					
	(1) Forecast regional level growth rate of C&I - per year (%)	3.3%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.0%	1.0%	1.0%	1.0%	1.0%
	(1) Forecast regional level growth rate of C&I - cumulative (%)	107%	109%	112%	115%	118%	121%	123%	126%	128%	131%	133%	135%	137%	139%	141%	144%	145%	146%	148%	149%	151%
	Total arisings of C&I using regional growth forecasts	1.827	1.872	1.919	1.967	2.016	2.067	2.108	2.150	2.193	2.237	2.282	2.316	2.351	2.386	2.422	2.458	2.483	2.507	2.532	2.558	2.583
	(1) Forecast sub-regional level growth rate of C&I - per year (%)	3.3%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.0%	1.0%	1.0%	1.0%	1.0%
	(1) Forecast sub-regional level growth rate of C&I - cumulative (%)	107%	109%	112%	115%	118%	121%	123%	126%	128%	131%	133%	135%	137%	139%	141%	144%	145%	146%	148%	149%	151%
	Total arisings of C&I using sub-regional growth forecasts	1.827	1.872	1.919	1.967	2.016	2.067	2.108	2.150	2.193	2.237	2.282	2.316	2.351	2.386	2.422	2.458	2.483	2.507	2.532	2.558	2.583
hazardous	Arisings of hazardous waste in baseline year																					
	(2) Forecast regional level growth rate of hazardous waste - per year (%)	3.3%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.0%	1.0%	1.0%	1.0%	1.0%
	Forecast regional level growth rate of hazardous waste - cumulative (%)	107%	109%	112%	115%	118%	121%	123%	126%	128%	131%	133%	135%	137%	139%	141%	144%	145%	146%	148%	149%	151%
	Total arisings of hazardous waste	0.105	0.108	0.111	0.113	0.116	0.119	0.122	0.124	0.126	0.129	0.132	0.134	0.136	0.138	0.140	0.142	0.143	0.145	0.146	0.148	0.149
	(2) Forecast sub-regional level growth rate of hazardous waste - per year (%)	3.3%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.0%	1.0%	1.0%	1.0%	1.0%
	Forecast sub regional level growth rate of hazardous waste - cumulative (%)	107%	109%	112%	115%	118%	121%	123%	126%	128%	131%	133%	135%	137%	139%	141%	144%	145%	146%	148%	149%	151%
	Total arisings of hazardous waste	0.105	0.108	0.111	0.113	0.116	0.119	0.122	0.124	0.126	0.129	0.132	0.134	0.136	0.138	0.140	0.142	0.143	0.145	0.146	0.148	0.149
c&d	Total managed C&D in baseline year																					
	(3) Forecast regional-level growth rate of managed C&D - per year (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Forecast regional-level growth rate of managed C&D - cumulative (%)	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
	(3) Total managed of C&D for the sub-region	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600

(1) Figures from SEERA updated waste capacity model by ERM in 2005.
(2) Baseline year of hazardous waste arisings is 2003 from EA Hazardous Waste Interrogator. www.environment-agency.gov.uk/apps/wastesurvey2/. ERM has assumed that growth in hazardous waste is equal to C&I waste.
(3) These data represent managed C&D waste in the sub-region, including all intra-regional and inter-regional movements. Growth is assumed to be zero from the orginal MEL study and updated modeted by ERM in 2005.
NOTE: C&D waste is not included in arisings because this was taken from survey data by Symonds 2001 which gave values for managed C&D waste.

Kent

Figure in blue represent data supplied by each sub-region for the new '2006 SEERA Capacity and Need Model'
Figures in orange represent managed waste that are used by the model to calculate results. These can be adjusted for different scenarios.

DATA_02: INTER REGIONAL MOVEMENTS OF MSW and C&I (Million Tonnes)		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw and c&i	Regional level imports of MSW and C&I waste into the SE region from London	1.76	1.716	1.672	1.628	1.584	1.54	1.454	1.368	1.282	1.196	1.11	1.064	1.018	0.972	0.926	0.88	0.86	0.84	0.82	0.8	0.78
	Proportion of regional MSW and C&I imports that go to the sub-region (%)	11.2%	11.2%	11.2%	11.2%	11.2%	11.2%	11.2%	11.2%	11.2%	11.2%	11.2%	11.2%	11.2%	11.2%	11.2%	11.2%	11.2%	11.2%	11.2%	11.2%	11.2%
	(1) Total imports of MSW and C&I from London into sub-region sent direct to landfill	0.198	0.193	0.188	0.183	0.178	0.173	0.163	0.154	0.144	0.134	0.125	0.119	0.114	0.109	0.104	0.099	0.097	0.094	0.092	0.090	0.088
msw	Proportion of total MSW and C&I imports that are MSW (%) - REGIONAL GROWTH FORECAST	32%	32%	32%	32%	32%	32%	32%	32%	32%	32%	32%	32%	32%	32%	32%	32%	32%	32%	32%	32%	32%
	Total imports of MSW into the sub-region from London - REGIONAL GROWTH FORECAST	0.063	0.061	0.060	0.058	0.057	0.055	0.052	0.049	0.046	0.043	0.040	0.038	0.036	0.035	0.033	0.031	0.031	0.030	0.030	0.029	0.028
	Proportion of total MSW and C&I imports that are MSW (%) - SUB-REGIONAL GROWTH FORECAST	32%	32%	32%	32%	32%	32%	32%	32%	32%	32%	32%	32%	32%	32%	32%	32%	32%	32%	32%	32%	32%
	Total imports of MSW into the sub-region from London - SUB-REGIONAL GROWTH FORECAST	0.063	0.062	0.060	0.059	0.057	0.055	0.052	0.049	0.046	0.043	0.040	0.038	0.037	0.035	0.033	0.031	0.031	0.030	0.030	0.029	0.028
c&i	Proportion of total MSW and C&I imports that are C&I (%) - REGIONAL GROWTH FORECAST	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%
	Total imports of C&I into the sub-region from London - REGIONAL GROWTH FORECAST	0.135	0.131	0.128	0.125	0.121	0.118	0.111	0.105	0.098	0.092	0.085	0.081	0.078	0.074	0.071	0.067	0.066	0.064	0.062	0.061	0.059
	Proportion of total MSW and C&I imports that are C&I (%) - SUB-REGIONAL GROWTH FORECAST	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%
	Total imports of C&I into the sub-region from London - SUB-REGIONAL GROWTH FORECAST	0.134	0.131	0.128	0.124	0.121	0.118	0.111	0.104	0.098	0.091	0.085	0.081	0.078	0.074	0.071	0.067	0.066	0.064	0.063	0.061	0.059

(1) Intra-regional and inter-regional movements have been excluded for MSW and C&I waste due to self-sufficiency requirements under PPS10, except for inter-regional movements from London into the sub-region. Apportionment from Policy W3 in the Plan – downloa
Note: Only a figure is available for total combined imports of MSW and C&I waste. ERM has assumed that imports of the seperate waste streams of MSW and C&I was split according to tonnage arisings of MSW and C&I in the sub-region.

DATA_03: MANAGED WASTE USED TO GENERATE RESULTS (Million Tonnes)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	0.853	0.875	0.897	0.919	0.942	0.966	0.985	1.005	1.025	1.045	1.066	1.082	1.098	1.115	1.131	1.148	1.166	1.183	1.201	1.219	1.237
msw - imports from london that are sent direct to non-hazardous landfill	0.063	0.061	0.060	0.058	0.057	0.055	0.052	0.049	0.046	0.043	0.040	0.038	0.036	0.035	0.033	0.031	0.031	0.030	0.030	0.029	0.028
c&i	1.827	1.872	1.919	1.967	2.016	2.067	2.108	2.150	2.193	2.237	2.282	2.316	2.351	2.386	2.422	2.458	2.483	2.507	2.532	2.558	2.583
c&I - imports from london that are sent direct to non-hazardous landfill	0.135	0.131	0.128	0.125	0.121	0.118	0.111	0.105	0.098	0.092	0.085	0.081	0.078	0.074	0.071	0.067	0.066	0.064	0.062	0.061	0.059
c&d	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600
hazardous	0.105	0.108	0.111	0.113	0.116	0.119	0.122	0.124	0.126	0.129	0.132	0.134	0.136	0.138	0.140	0.142	0.143	0.145	0.146	0.148	0.149

DATA_04: TARGETS (% or Million Tonnes)		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	(1) landfill (Mt)	0.428	0.414	0.393	0.366	0.331	0.290	0.258	0.226	0.193	0.185	0.177	0.168	0.160	0.152	0.144	0.135	0.135	0.135	0.135	0.135	0.135
	recovered (%)	5	6.4	7.8	9.2	10.6	12	14.4	16.8	19.2	21.6	24	24.8	25.6	26.4	27.2	28	27.2	26.4	25.6	24.8	24
	recycled and composted (%)	30	32.0	34.0	36.0	38.0	40	42.0	44.0	46.0	48.0	50	51.0	52.0	53.0	54.0	55	56.0	57.0	58.0	59.0	60
c&i	recovered (%)	14	14.2	14.4	14.6	14.8	15	16.0	17.0	18.0	19.0	20	20.2	20.4	20.6	20.8	21	20.6	20.2	19.8	19.4	19
	recycled and composted (%)	40	42.0	44.0	46.0	48.0	50	51.0	52.0	53.0	54.0	55	56.0	57.0	58.0	59.0	60	61.0	62.0	63.0	64.0	65
c&d	recovered (%)	36	35.4	34.8	34.2	33.6	33	33.6	34.2	34.8	35.4	36	34.4	32.8	31.2	29.6	28	28.4	28.8	29.2	29.6	30
	recycled (%)	45	46.0	47.0	48.0	49.0	50	50.0	50.0	50.0	50.0	50	52.0	54.0	56.0	58.0	60	60.0	60.0	60.0	60.0	60
hazardous	landfill (%)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	recovered (%)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	recycled (%)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

(1) ERM has assumed that the LATS target allowance remains constant at the 2020 value for the years beyond 2020

DATA_05: WASTE STREAM TONNAGES TO MEET TARGETS (Million Tonnes)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025

This first section of DATA_03 calculates if there is a LATS shortfall or suplus in each year. If there is a LATS shortfall (ie insufficient allowance to landfill non-diverted waste) then the model assumes that this extra waste is recycled/composted and r

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	Total MSW to be recovered and recycled/composted to meet target	0.299	0.336	0.375	0.415	0.458	0.502	0.555	0.611	0.668	0.727	0.789	0.820	0.852	0.885	0.919	0.953	0.970	0.987	1.004	1.021	1.039
	Total MSW not-diverted by targets	0.555	0.539	0.522	0.504	0.484	0.463	0.429	0.394	0.357	0.318	0.277	0.262	0.246	0.230	0.213	0.195	0.196	0.196	0.197	0.197	0.198
	Percentage of MSW that is biodegradable (% by weight)	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68
	Total BMW not-diverted by targets	0.377	0.366	0.355	0.342	0.329	0.315	0.292	0.268	0.242	0.216	0.188	0.178	0.167	0.156	0.145	0.133	0.133	0.134	0.134	0.134	0.135
	LATS shortfall (how much extra is landfilled above LATS target)	-0.050	-0.047	-0.038	-0.023	-0.002	0.025	0.034	0.042	0.049	0.031	0.012	0.010	0.007	0.004	0.001	-0.003	-0.002	-0.002	-0.001	-0.001	-0.001
	Ratio of 'recovered' to 'recycled/composted' for target (%)	14%	17%	19%	20%	22%	23%	26%	28%	29%	31%	32%	33%	33%	33%	33%	34%	33%	32%	31%	30%	29%
	Extra MSW 'recovery' needed due to LATS shortfall	0.000	0.000	0.000	0.000	0.000	*0.006*	*0.009*	*0.012*	*0.014*	*0.010*	*0.004*	*0.003*	*0.002*	*0.001*	*0.000*	0.000	0.000	0.000	0.000	0.000	0.000
	Extra MSW 'recycling/composting' needed due to LATS shortfall	0.000	0.000	0.000	0.000	0.000	*0.019*	*0.025*	*0.030*	*0.035*	*0.021*	*0.008*	*0.006*	*0.005*	*0.003*	*0.001*	0.000	0.000	0.000	0.000	0.000	0.000

The section below in DATA_03 shows the tonnages by waste to meet targets.

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	Recycling and composting target	0.256	0.280	0.305	0.331	0.358	0.405	0.439	0.473	0.506	0.523	0.541	0.558	0.576	0.594	0.612	0.632	0.653	0.674	0.697	0.719	0.742
	Recovery target	0.043	0.056	0.070	0.085	0.100	0.122	0.151	0.180	0.211	0.235	0.260	0.271	0.284	0.296	0.308	0.322	0.317	0.312	0.307	0.302	0.297
	Non-hazardous landfill	0.555	0.539	0.522	0.504	0.484	0.439	0.395	0.352	0.307	0.287	0.265	0.252	0.239	0.225	0.212	0.195	0.196	0.196	0.197	0.197	0.198
	CHECK COUNTER (should be zero)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
c&i	Recycling and composting target	0.731	0.786	0.844	0.905	0.968	1.033	1.075	1.118	1.162	1.208	1.255	1.297	1.340	1.384	1.429	1.475	1.514	1.555	1.595	1.637	1.679
	Recovery target	0.256	0.266	0.276	0.287	0.298	0.310	0.337	0.366	0.395	0.425	0.456	0.468	0.480	0.491	0.504	0.516	0.511	0.506	0.501	0.496	0.491
	Non-hazardous landfill	0.840	0.820	0.798	0.775	0.750	0.723	0.696	0.667	0.636	0.604	0.570	0.551	0.531	0.511	0.489	0.467	0.457	0.446	0.436	0.425	0.413
	CHECK COUNTER (should be zero)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
c&d	Recycling target	1.170	1.196	1.222	1.248	1.274	1.300	1.300	1.300	1.300	1.300	1.300	1.352	1.404	1.456	1.508	1.560	1.560	1.560	1.560	1.560	1.560
	Recovery target	0.936	0.920	0.905	0.889	0.874	0.858	0.874	0.889	0.905	0.920	0.936	0.894	0.853	0.811	0.770	0.728	0.738	0.749	0.759	0.770	0.780
	Inert landfill	0.494	0.484	0.473	0.463	0.452	0.442	0.426	0.411	0.395	0.380	0.364	0.354	0.343	0.333	0.322	0.312	0.302	0.291	0.281	0.270	0.260
	CHECK COUNTER (should be zero)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
hazardous	Hazardous waste	0.105	0.108	0.111	0.113	0.116	0.119	0.122	0.124	0.126	0.129	0.132	0.134	0.136	0.138	0.140	0.142	0.143	0.145	0.146	0.148	0.149

DATA_06: TOTAL WASTE TONNAGES TO MEET TARGETS (Million Tonnes)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
MSW and C&I recycling and composting target	0.987	1.066	1.149	1.236	1.326	1.439	1.514	1.591	1.668	1.731	1.796	1.855	1.916	1.977	2.040	2.106	2.167	2.229	2.292	2.356	2.422
C&D recycling target	1.170	1.196	1.222	1.248	1.274	1.300	1.300	1.300	1.300	1.300	1.300	1.352	1.404	1.456	1.508	1.560	1.560	1.560	1.560	1.560	1.560
MSW and C&I recovery target	0.298	0.322	0.346	0.372	0.398	0.432	0.488	0.546	0.606	0.660	0.716	0.739	0.763	0.787	0.812	0.838	0.828	0.819	0.809	0.799	0.788
C&D recovery target	0.936	0.920	0.905	0.889	0.874	0.858	0.874	0.889	0.905	0.920	0.936	0.894	0.853	0.811	0.770	0.728	0.738	0.749	0.759	0.770	0.780
Non-hazardous landfill	1.395	1.359	1.320	1.279	1.234	1.162	1.091	1.018	0.943	0.891	0.836	0.803	0.770	0.736	0.701	0.662	0.653	0.643	0.633	0.622	0.611
Inert landfill	0.494	0.484	0.473	0.463	0.452	0.442	0.426	0.411	0.395	0.380	0.364	0.354	0.343	0.333	0.322	0.312	0.302	0.291	0.281	0.270	0.260
Hazardous waste	0.105	0.108	0.111	0.113	0.116	0.119	0.122	0.124	0.126	0.129	0.132	0.134	0.136	0.138	0.140	0.142	0.143	0.145	0.146	0.148	0.149

Kent

CHART_01

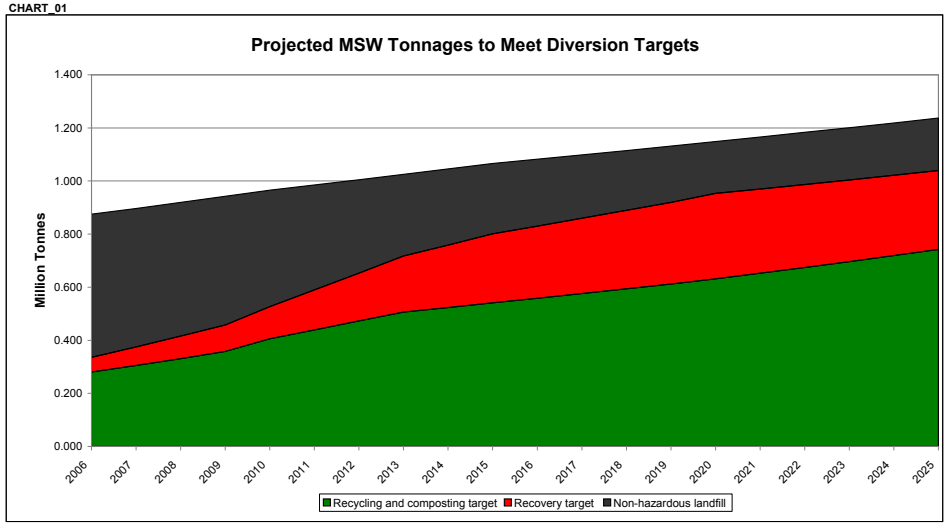
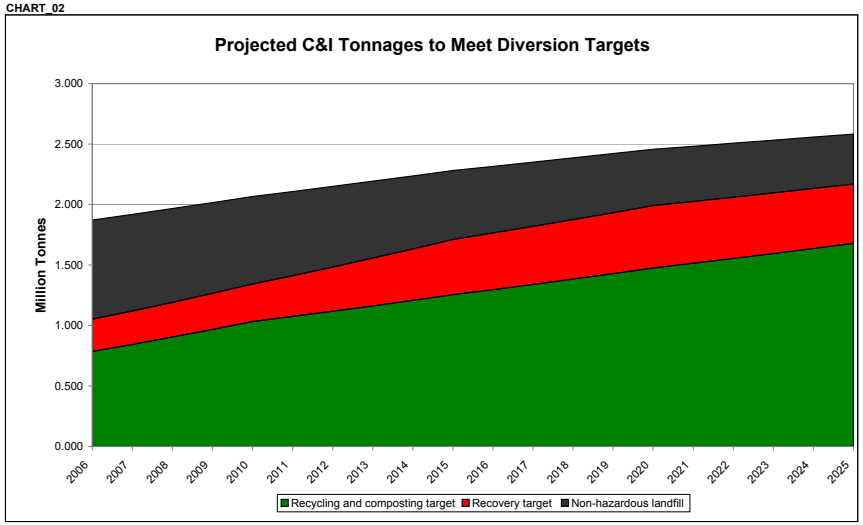


CHART_02



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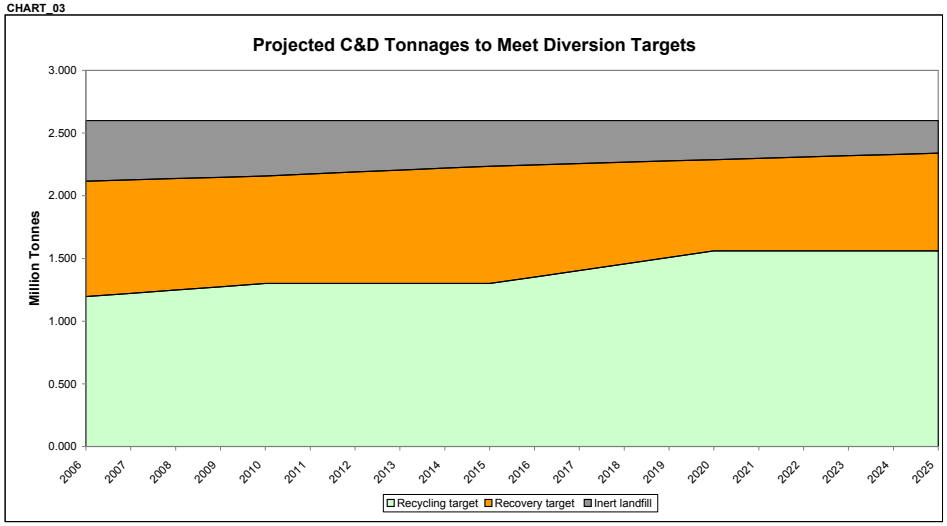

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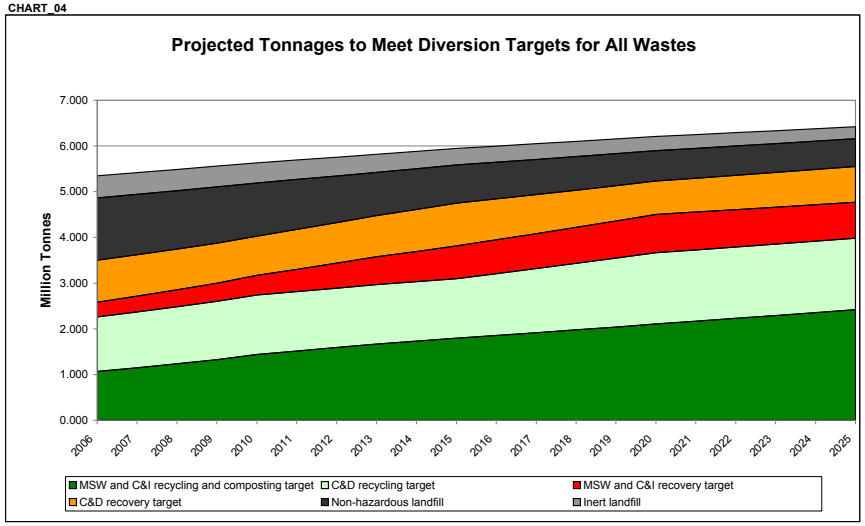

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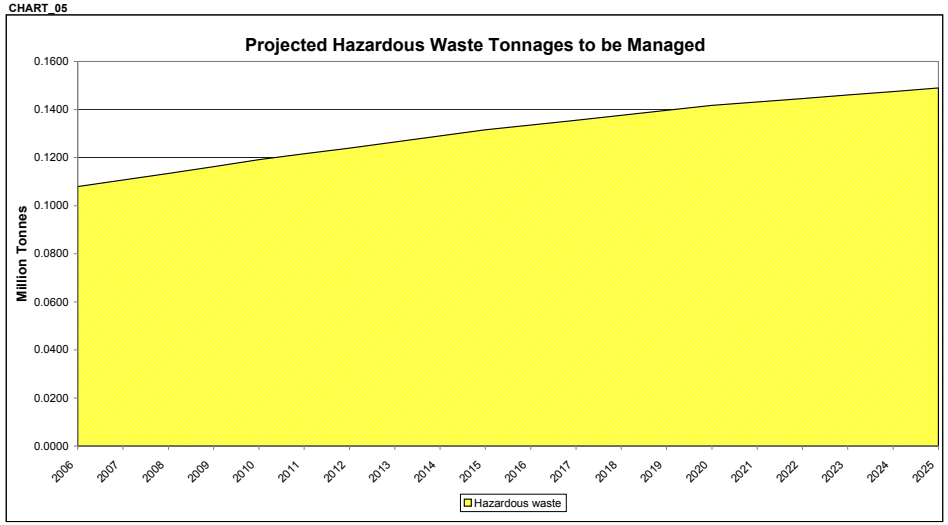
CHART_05



DATA_07: EXISTING/PLANNED CAPACITY FOR RECYCLING, RECOVERY AND LANDFILLING AND TOTAL WASTE TONNAGES TO EACH DISPOSAL ROUTE (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
MSW and C&I recovery																					
MSW and C&I incineration (non-specialist)	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
MSW and C&I treatment	0.227	0.227	0.227	0.227	0.227	0.227	0.227	0.227	0.227	0.227	0.227	0.227	0.227	0.227	0.227	0.227	0.227	0.227	0.227	0.227	0.227
Total existing/planned MSW and C&I recovery capacity	0.230	0.230	0.230	0.230	0.230	0.230	0.230	0.230	0.230	0.230	0.230	0.230	0.230	0.230	0.230	0.230	0.230	0.230	0.230	0.230	0.230
Total MSW waste required to meet target	0.043	0.056	0.070	0.085	0.100	0.122	0.151	0.180	0.211	0.235	0.260	0.271	0.284	0.296	0.308	0.322	0.317	0.312	0.307	0.302	0.297
Total C&I waste required to meet target	0.256	0.266	0.276	0.287	0.298	0.310	0.337	0.366	0.395	0.425	0.456	0.468	0.480	0.491	0.504	0.516	0.511	0.506	0.501	0.496	0.491
Surplus/deficit capacity	-0.068	-0.092	-0.116	-0.142	-0.168	-0.202	-0.258	-0.316	-0.376	-0.430	-0.486	-0.509	-0.533	-0.557	-0.582	-0.608	-0.599	-0.589	-0.579	-0.569	-0.558
MSW and C&I recycling and composting																					
MSW and C&I recycling	0.334	0.334	0.334	0.334	0.334	0.334	0.334	0.334	0.334	0.334	0.334	0.334	0.334	0.334	0.334	0.334	0.334	0.334	0.334	0.334	0.334
MSW and C&I transfer	1.764	1.764	1.764	1.764	1.764	1.764	1.764	1.764	1.764	1.764	1.764	1.764	1.764	1.764	1.764	1.764	1.764	1.764	1.764	1.764	1.764
Total existing/planned MSW and C&I composting capacity	0.084	0.084	0.084	0.084	0.084	0.084	0.084	0.084	0.084	0.084	0.084	0.084	0.084	0.084	0.084	0.084	0.084	0.084	0.084	0.084	0.084
(1) Total existing/planned MSW and C&I recycling and composting capacity (Baseline: 20% of transfer capacity delivers recycling)	0.770	0.770	0.770	0.770	0.770	0.770	0.770	0.770	0.770	0.770	0.770	0.770	0.770	0.770	0.770	0.770	0.770	0.770	0.770	0.770	0.770
(2) Total existing/planned MSW and C&I recycling and composting capacity (Sensitivity: 5% of transfer capacity delivers recycling)	0.506	0.506	0.506	0.506	0.506	0.506	0.506	0.506	0.506	0.506	0.506	0.506	0.506	0.506	0.506	0.506	0.506	0.506	0.506	0.506	0.506
Total MSW waste required to meet recycling and composting target	0.256	0.280	0.305	0.331	0.358	0.405	0.439	0.473	0.506	0.523	0.541	0.558	0.576	0.594	0.612	0.632	0.653	0.674	0.697	0.719	0.742
Total C&I waste required to meet recycling and composting target	0.731	0.786	0.844	0.905	0.968	1.033	1.075	1.118	1.162	1.208	1.255	1.297	1.340	1.384	1.429	1.475	1.514	1.555	1.595	1.637	1.679
Surplus/deficit capacity (Baseline: 20% of transfer capacity delivers recycling)	-0.216	-0.296	-0.379	-0.465	-0.555	-0.668	-0.744	-0.820	-0.898	-0.961	-1.025	-1.085	-1.145	-1.207	-1.270	-1.336	-1.397	-1.459	-1.522	-1.586	-1.651
Surplus/deficit capacity (Sensitivity: 5% of transfer capacity delivers recycling)	-0.481	-0.560	-0.643	-0.730	-0.820	-0.933	-1.008	-1.085	-1.162	-1.225	-1.290	-1.349	-1.410	-1.472	-1.535	-1.601	-1.661	-1.723	-1.786	-1.850	-1.916
C&D recycling																					
Total existing/planned C&D recycling capacity	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065	0.065
Total waste required to meet C&D recycling target	1.170	1.196	1.222	1.248	1.274	1.300	1.300	1.300	1.300	1.300	1.300	1.352	1.404	1.456	1.508	1.560	1.560	1.560	1.560	1.560	1.560
Surplus/deficit capacity	-1.105	-1.131	-1.157	-1.183	-1.209	-1.235	-1.235	-1.235	-1.235	-1.235	-1.235	-1.287	-1.339	-1.391	-1.443	-1.495	-1.495	-1.495	-1.495	-1.495	-1.495
C&D recovery																					
(3) REGIONAL total existing/planned C&D recovery capacity	1.877	1.794	1.710	1.627	1.544	1.460	1.439	1.418	1.398	1.377	1.356	1.325	1.293	1.262	1.231	1.199	1.220	1.241	1.262	1.283	1.304
Sub-regional total waste required to meet C&D recovery target	0.936	0.920	0.905	0.889	0.874	0.858	0.874	0.889	0.905	0.920	0.936	0.894	0.853	0.811	0.770	0.728	0.738	0.749	0.759	0.770	0.780
Surplus/deficit capacity	0.941	0.873	0.806	0.738	0.670	0.602	0.566	0.529	0.493	0.456	0.420	0.430	0.440	0.451	0.461	0.471	0.482	0.492	0.503	0.513	0.524
Hazardous waste recycling																					
Total existing/planned hazardous waste recycling capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total hazardous waste to be recycled	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Surplus/deficit capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hazardous waste recovery																					
Total existing/planned hazardous waste recovery capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total hazardous waste to be recovered	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Surplus/deficit capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Non-hazardous landfill																					
Available non-hazardous landfill capacity (excluding residues from MSW and C&I recovery)		7.275	5.444	3.641	1.870	0.131	-1.549	-3.161	-4.701	-6.169	-7.583	-8.943	-10.279	-11.592	-12.879	-14.141	-15.374	-16.604	-17.831	-19.056	-20.277
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'Incineration (non-specialist)'		7.275	5.396	3.541	1.714	-0.084	-1.830	-3.514	-5.136	-6.695	-8.209	-9.676	-11.123	-12.550	-13.955	-15.339	-16.697	-18.052	-19.402	-20.748	-22.089
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'MBT'		7.275	5.254	3.247	1.256	-0.717	-2.652	-4.551	-6.414	-8.239	-10.043	-11.826	-13.598	-15.361	-17.112	-18.853	-20.580	-22.299	-24.010	-25.712	-27.404
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'RDF'		7.275	5.405	3.561	1.745	-0.041	-1.774	-3.443	-5.049	-6.590	-8.084	-9.529	-10.954	-12.358	-13.740	-15.099	-16.433	-17.762	-19.088	-20.410	-21.727
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'treatment'		7.275	5.299	3.341	1.402	-0.516	-2.391	-4.221	-6.007	-7.748	-9.460	-11.142	-12.811	-14.466	-16.108	-17.735	-19.345	-20.948	-22.544	-24.132	-25.713
Total MSW and C&I waste sent direct to non-hazardous landfill		1.359	1.320	1.279	1.234	1.162	1.091	1.018	0.943	0.891	0.836	0.803	0.770	0.736	0.701	0.662	0.653	0.643	0.633	0.622	0.611
Inert landfill																					
Available inert landfill capacity		27.337	26.853	26.380	25.917	25.465	25.023	24.597	24.186	23.791	23.411	23.047	22.693	22.350	22.017	21.695	21.383	21.081	20.790	20.509	20.239
Available inert landfill capacity assuming all MSW and C&I recovery by 'Incineration (non-specialist)'		27.337	26.805	26.280	25.761	25.249	24.742	24.243	23.750	23.264	22.785	22.314	21.850	21.392	20.941	20.497	20.059	19.633	19.219	18.817	18.427
Total C&D waste sent direct to inert landfill	0.494	0.484	0.473	0.463	0.452	0.442	0.426	0.411	0.395	0.380	0.364	0.354	0.343	0.333	0.322	0.312	0.302	0.291	0.281	0.270	0.260
Hazardous landfill																					
Available hazardous landfill capacity	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309
Total hazardous waste sent direct to hazardous landfill	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Other																					
Metal/ELV facility	0.962	0.962	0.962	0.962	0.962	0.962	0.962	0.962	0.962	0.962	0.962	0.962	0.962	0.962	0.962	0.962	0.962	0.962	0.962	0.962	0.962
Ignored	1.779	1.779	1.779	1.779	1.779	1.779	1.779	1.779	1.779	1.779	1.779	1.779	1.779	1.779	1.779	1.779	1.779	1.779	1.779	1.779	1.779
Closed	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005

(1) ERM has assumed that 20% of the total 'transfer' capacity will deliver recycling capacity
(2) ERM has assumed that 5% of the total 'transfer' capacity will deliver recycling capacity
(3) Data for C&D recovery for landfill cover for the SE Region were sourced from the original MEL model, which sourced the data from Symonds (2001)
Note:

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DATA_08: RESIDUE RATES (%)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Recovery residues (% by weight)																					
MSW and C&I incineration (non-specialist) - bottom ash	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
MSW and C&I incineration (non-specialist) - fly ash	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
MSW and C&I to MBT	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59
MSW and C&I to RDF	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
MSW and C&I treatment - non-hazardous	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45
MSW and C&I treatment - hazardous	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Hazardous waste recovery	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Recycling residues (% by weight)																					
MSW and C&I recycling	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
MSW and C&I transfer	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
MSW and C&I composting	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
C&D recycling	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Hazardous waste recycling	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Other																					
Metal/ELV facility	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Ignored	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Closed	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Note: All residues are calculated on the amount of waste arising not on the maount of capacity available. This is complaince with the self-sufficiency requirements of PPS10.

DATA_09: TOTAL RESIDUE (Million Tonnes)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Recovery residues (of waste managed):																					
MSW and C&I incineration (non-specialist) - bottom ash	0.090	0.097	0.104	0.112	0.119	0.129	0.146	0.164	0.182	0.198	0.215	0.222	0.229	0.236	0.244	0.251	0.249	0.246	0.243	0.240	0.236
MSW and C&I incineration (non-specialist) - fly ash	0.009	0.010	0.010	0.011	0.012	0.013	0.015	0.016	0.018	0.020	0.021	0.022	0.023	0.024	0.024	0.025	0.025	0.025	0.024	0.024	0.024
MSW and C&I to MBT	0.176	0.190	0.204	0.219	0.235	0.255	0.288	0.322	0.358	0.390	0.422	0.436	0.450	0.464	0.479	0.494	0.489	0.483	0.477	0.471	0.465
MSW and C&I to RDF	0.036	0.039	0.042	0.045	0.048	0.052	0.059	0.066	0.073	0.079	0.086	0.089	0.092	0.094	0.097	0.101	0.099	0.098	0.097	0.096	0.095
MSW and C&I treatment - non-hazardous	0.134	0.145	0.156	0.167	0.179	0.194	0.220	0.246	0.273	0.297	0.322	0.333	0.343	0.354	0.365	0.377	0.373	0.368	0.364	0.359	0.354
MSW and C&I treatment - hazardous	0.015	0.016	0.017	0.019	0.020	0.022	0.024	0.027	0.030	0.033	0.036	0.037	0.038	0.039	0.041	0.042	0.041	0.041	0.040	0.040	0.039
Hazardous waste recovery	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Recycling residues (of waste managed):																					
MSW and C&I recycling and composting	0.148	0.160	0.172	0.185	0.199	0.216	0.227	0.239	0.250	0.260	0.269	0.278	0.287	0.297	0.306	0.316	0.325	0.334	0.344	0.353	0.363
C&D recycling	0.117	0.120	0.122	0.125	0.127	0.130	0.130	0.130	0.130	0.130	0.130	0.135	0.140	0.146	0.151	0.156	0.156	0.156	0.156	0.156	0.156
Hazardous waste recycling	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Note: All residues are calculated on the amount of waste arising not on the maount of capacity available. This is complaince with the self-sufficiency requirements of PPS10.

DATA_10: TOTAL MSW AND C&I RESIDUE FROM RECYCLING SENT TO NON-HAZARDOUS LANDFILL (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Total MSW and C&I recycling and composting residue sent to non-hazardous landfill	0.265	0.280	0.295	0.310	0.326	0.346	0.357	0.369	0.380	0.390	0.399	0.413	0.428	0.442	0.457	0.472	0.481	0.490	0.500	0.509	0.519

DATA_11: TOTAL MSW AND C&I RESIDUE FROM RECOVERY SENT TO NON-HAZARDOUS LANDFILL AND C&D RECYCLING (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
SCENARIO 1 - Assumes all recovery is by 'Non-specialist incineration' (based on total recovery capacity)																					
(1) Total MSW and C&I residue sent to non-hazardous landfill assuming all MSW and C&I recovery by 'Non-specialist incineration'	0.045	0.048	0.052	0.056	0.060	0.065	0.073	0.082	0.091	0.099	0.107	0.111	0.114	0.118	0.122	0.126	0.124	0.123	0.121	0.120	0.118
(1) Total MSW and C&I residue sent to inert landfill assuming all MSW and C&I recovery by 'Non-specialist incineration'	0.045	0.048	0.052	0.056	0.060	0.065	0.073	0.082	0.091	0.099	0.107	0.111	0.114	0.118	0.122	0.126	0.124	0.123	0.121	0.120	0.118
SCENARIO 2 - Assumes all recovery is by 'MBT' (based on total recovery capacity)																					
Total MSW and C&I residue sent to non-hazardous landfill	0.176	0.190	0.204	0.219	0.235	0.255	0.288	0.322	0.358	0.390	0.422	0.436	0.450	0.464	0.479	0.494	0.489	0.483	0.477	0.471	0.465
SCENARIO 3 - Assumes all recovery is by 'RDF' (based on total recovery capacity)																					
Total MSW and C&I residue sent to non-hazardous landfill	0.036	0.039	0.042	0.045	0.048	0.052	0.059	0.066	0.073	0.079	0.086	0.089	0.092	0.094	0.097	0.101	0.099	0.098	0.097	0.096	0.095
SCENARIO 4 - Assumes all recovery is by 'treatment' (based on total recovery capacity)																					
Total MSW and C&I residue sent to non-hazardous landfill	0.134	0.145	0.156	0.167	0.179	0.194	0.220	0.246	0.273	0.297	0.322	0.333	0.343	0.354	0.365	0.377	0.373	0.368	0.364	0.359	0.354

(1) It was assumed that 50% of residue from 'non-specialist incineration' is sent to non-hazardous landfill and 50% is sent to inert landfill. In the original model assumptions developed MEL 50% was assumed to go to C&D recycling, rather than to inert landfi

DATA_12: TONNAGES OF C&D REUSED ON NON-HAZARDOUS AND INERT LANDFILL (Million Tonnes)

(1) C&D reused on landfill sites	39 %
(1) C&D reused on exempt sites	61 %
(1) C&D reused on landfill sites sent to 'non-haz landfill'	30 %
(1) C&D reused on landfill sites sent to 'inert landfill'	70 %

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
c&d	Total C&D reused on non-hazardous landfill	0.109	0.107	0.105	0.103	0.102	0.100	0.102	0.103	0.105	0.107	0.109	0.104	0.099	0.094	0.090	0.085	0.086	0.087	0.088	0.090	0.091
	Total reused C&D on inert landfill	0.254	0.250	0.246	0.241	0.237	0.233	0.237	0.241	0.246	0.250	0.254	0.243	0.232	0.220	0.209	0.198	0.200	0.203	0.206	0.209	0.212

(1) C&D reuse rates based on original model assumptions developed MEL
NOTE: C&D reuse on inert and non-hazardous landfill is not included within the charts because it has been assumed that data supplied by each sub-region has accounted for C&D reuse as an engineering material.

DATA_13: TOTAL MSW AND C&I RESIDUE FROM RECYCLING SENT TO HAZARDOUS LANDFILL (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Total MSW and C&I recycling and composting residue sent to hazardous landfill	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

DATA_14: TOTAL MSW AND C&I RESIDUE FROM RECOVERY SENT TO HAZARDOUS LANDFILL (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
SCENARIO 1 - Assumes all recovery is by 'Non-specialist incineration' (based on total recovery capacity)																					
Total MSW and C&I residue sent to hazardous landfill assuming all MSW and C&I recovery by 'Non-specialist incineration'	0.009	0.010	0.010	0.011	0.012	0.013	0.015	0.016	0.018	0.020	0.021	0.022	0.023	0.024	0.024	0.025	0.025	0.025	0.024	0.024	0.024
SCENARIO 2 - Assumes all recovery is by 'MBT' (based on total recovery capacity)																					
Total MSW and C&I residue sent to hazardous landfill	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SCENARIO 3 - Assumes all recovery is by 'RDF' (based on total recovery capacity)																					
Total MSW and C&I residue sent to hazardous landfill	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SCENARIO 4 - Assumes all recovery is by 'treatment' (based on total recovery capacity)																					
Total MSW and C&I residue sent to hazardous landfill	0.015	0.016	0.017	0.019	0.020	0.022	0.024	0.027	0.030	0.033	0.036	0.037	0.038	0.039	0.041	0.042	0.041	0.041	0.040	0.040	0.039

NOTE: This element of the model is redundant. There is currently no hazardous waste capacity figures to generate a chart of managed waste versus available capacity.

DATA_15: TOTAL HAZARDOUS WASTE RESIDUE FROM RECOVERY AND RECYCLING SENT TO HAZARDOUS LANDFILL (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Total hazardous waste recycling and recovery residue sent to hazardous landfill	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

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CHART_06

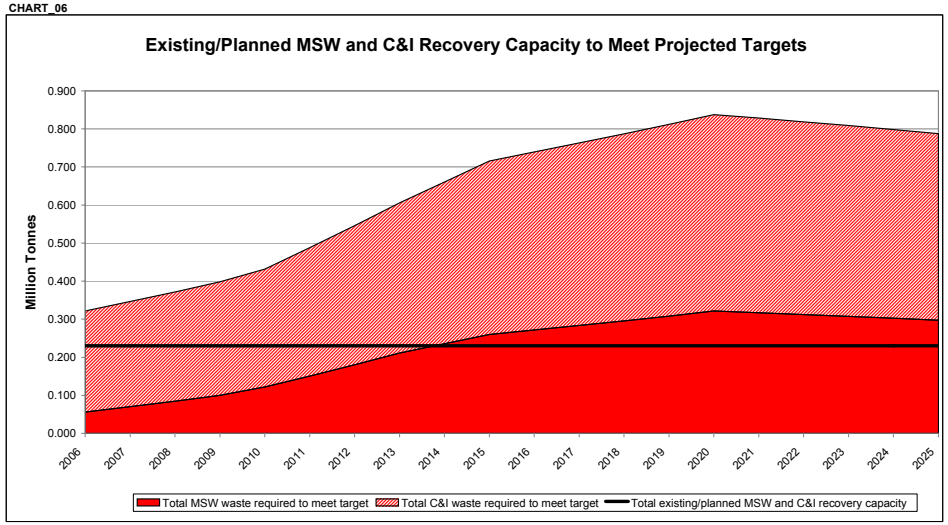


CHART_07

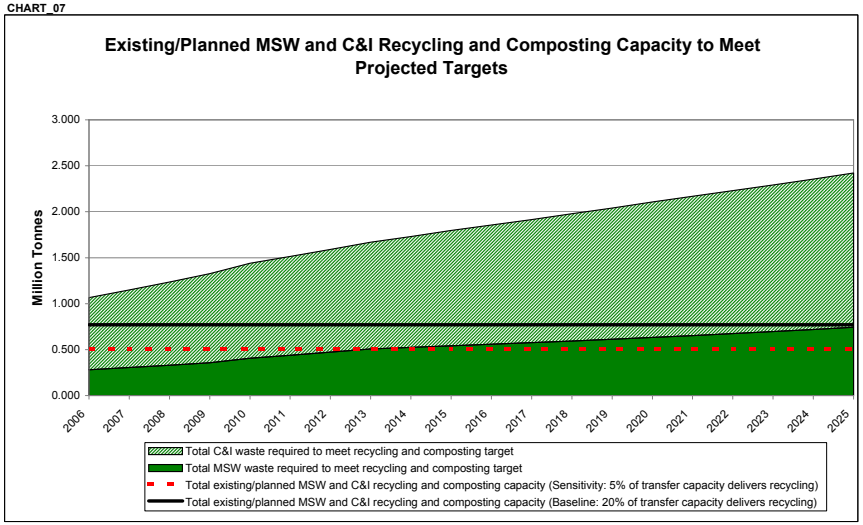
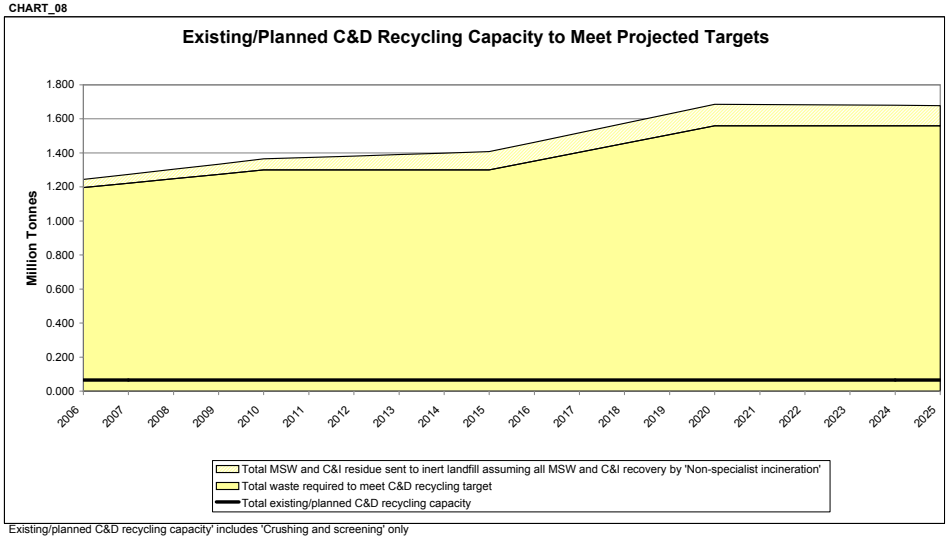


CHART_08



Existing/planned C&D recycling capacity' includes 'Crushing and screening' only
NOTE: This capacity does not represent the quantity of material that is recycled.
NOTE: Residue from MSW and C&I recovery is based on existing/planned capacity (not waste tonnage to meet recovery target)

Kent

CHART_09

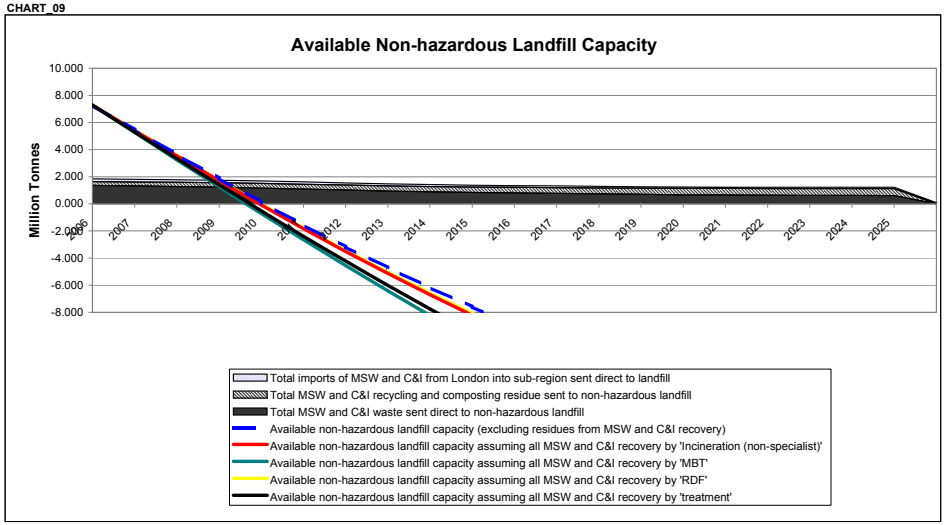
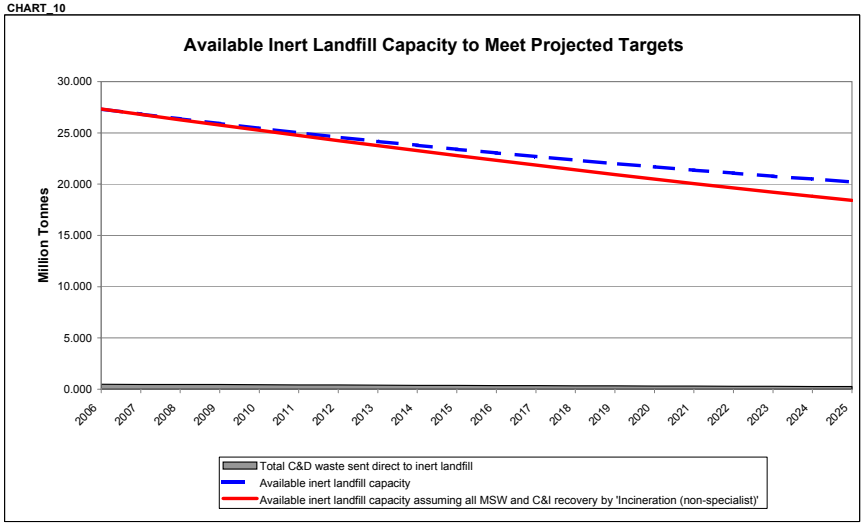


CHART_10



NOTE: The graph assumes that the baseline capacity for non-hazardous landfill has accounted for C&D reuse as a landfill engineering material.

Medway

SUMMARY DATA AND RESULTS FOR MEDWAY

MANAGED WASTE USED TO GENERATE RESULTS (Million Tonnes)	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	0.137	0.141	0.144	0.148	0.152	0.155	0.158	0.161	0.164	0.167	0.170	0.173	0.175	0.178	0.180	0.183	0.186	0.189	0.191	0.194
msw - imports from london that are sent direct to non-hazardous landfill	0.010	0.010	0.009	0.009	0.009	0.008	0.008	0.007	0.007	0.006	0.006	0.006	0.006	0.005	0.005	0.005	0.005	0.005	0.005	0.004
c&i	0.096	0.099	0.101	0.104	0.106	0.108	0.111	0.113	0.115	0.117	0.119	0.121	0.123	0.125	0.126	0.128	0.129	0.130	0.132	0.133
c&i - imports from london that are sent direct to non-hazardous landfill	0.007	0.007	0.007	0.006	0.006	0.006	0.005	0.005	0.005	0.004	0.004	0.004	0.004	0.004	0.004	0.003	0.003	0.003	0.003	0.003
c&d	0.332	0.332	0.332	0.332	0.332	0.332	0.332	0.332	0.332	0.332	0.332	0.332	0.332	0.332	0.332	0.332	0.332	0.332	0.332	0.332
hazardous	0.016	0.016	0.016	0.017	0.017	0.018	0.018	0.018	0.019	0.019	0.019	0.020	0.020	0.020	0.021	0.021	0.021	0.021	0.021	0.022

WASTE STREAM TONNAGES TO MEET TARGETS (Million Tonnes)		2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	LATS shortfall (how much extra is landfilled above LATS target)	-0.020	-0.018	-0.014	-0.009	-0.003	-0.001	*0.001*	*0.003*	*0.000*	-0.002	-0.003	-0.003	-0.003	-0.003	-0.004	-0.004	-0.004	-0.004	-0.003	-0.003
	Recycling and composting target	0.044	0.048	0.052	0.056	0.061	0.065	0.070	0.076	0.079	0.084	0.087	0.090	0.093	0.096	0.099	0.103	0.106	0.109	0.113	0.117
	Recovery target	0.009	0.011	0.013	0.016	0.018	0.022	0.027	0.032	0.036	0.040	0.042	0.044	0.046	0.048	0.051	0.050	0.049	0.048	0.047	0.047
	Non-hazardous landfill	0.085	0.082	0.079	0.076	0.073	0.067	0.061	0.053	0.050	0.044	0.041	0.039	0.036	0.033	0.031	0.031	0.031	0.031	0.031	0.031
c&i	Recycling and composting target	0.040	0.043	0.047	0.050	0.053	0.055	0.058	0.060	0.062	0.065	0.067	0.069	0.071	0.074	0.076	0.078	0.080	0.082	0.084	0.086
	Recovery target	0.014	0.014	0.015	0.015	0.016	0.017	0.019	0.020	0.022	0.023	0.024	0.025	0.025	0.026	0.027	0.026	0.026	0.026	0.026	0.025
	Non-hazardous landfill	0.042	0.041	0.040	0.039	0.037	0.036	0.034	0.033	0.031	0.029	0.028	0.027	0.026	0.025	0.024	0.023	0.023	0.022	0.022	0.021
c&d	Recycling target	0.153	0.156	0.159	0.162	0.166	0.166	0.166	0.166	0.166	0.166	0.172	0.179	0.186	0.192	0.199	0.199	0.199	0.199	0.199	0.199
	Recovery target	0.117	0.115	0.113	0.111	0.109	0.111	0.113	0.115	0.117	0.119	0.114	0.109	0.103	0.098	0.093	0.094	0.096	0.097	0.098	0.099
	Inert landfill	0.062	0.060	0.059	0.058	0.056	0.054	0.052	0.050	0.048	0.046	0.045	0.044	0.042	0.041	0.040	0.038	0.037	0.036	0.034	0.033
hazardous	Hazardous waste	0.016	0.016	0.016	0.017	0.017	0.018	0.018	0.018	0.019	0.019	0.019	0.020	0.020	0.020	0.021	0.021	0.021	0.021	0.021	0.022

Note: If there is a LATS shortfall, denoted by a positive number, (ie insufficient allowance to landfill non-diverted waste) then the model assumes that this extra waste is recycled/composted and recovered at the same ratio as the regional targets for recycling/composting and recovery for that year.

EXISTING/PLANNED CAPACITY FOR RECYCLING, RECOVERY AND LANDFILLING AND TOTAL WASTE TONNAGES TO EACH DISPOSAL ROUTE (Million Tonnes)		2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
MSW and C&I recovery																					
	Total existing/planned MSW and C&I recovery capacity	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
	Surplus/deficit capacity	-0.017	-0.020	-0.023	-0.026	-0.029	-0.035	-0.041	-0.047	-0.052	-0.059	-0.061	-0.064	-0.067	-0.069	-0.072	-0.071	-0.070	-0.069	-0.068	-0.067
MSW and C&I recycling and composting																					
	Total existing/planned MSW and C&I recycling and composting capacity (Baseline: 20% of transfer capacity delivers recycling)	0.176	0.176	0.176	0.176	0.176	0.176	0.176	0.176	0.176	0.176	0.176	0.176	0.176	0.176	0.176	0.176	0.176	0.176	0.176	0.176
	Total existing/planned MSW and C&I recycling and composting capacity (Sensitivity: 5% of transfer capacity delivers recycling)	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.044
	Surplus/deficit capacity (Baseline: 20% of transfer capacity delivers recycling)	0.091	0.084	0.077	0.070	0.062	0.055	0.048	0.040	0.034	0.027	0.022	0.017	0.012	0.006	0.001	-0.005	-0.010	-0.016	-0.022	-0.027
	Surplus/deficit capacity (Sensitivity: 5% of transfer capacity delivers recycling)	-0.041	-0.047	-0.055	-0.062	-0.070	-0.076	-0.084	-0.092	-0.097	-0.104	-0.109	-0.115	-0.120	-0.126	-0.131	-0.137	-0.142	-0.148	-0.153	-0.159
C&D recycling																					
	Total existing/planned C&D recycling capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Surplus/deficit capacity	-0.153	-0.156	-0.159	-0.162	-0.166	-0.166	-0.166	-0.166	-0.166	-0.166	-0.172	-0.179	-0.186	-0.192	-0.199	-0.199	-0.199	-0.199	-0.199	-0.199
C&D recovery																					
	REGIONAL total existing/planned C&D recovery capacity	1.794	1.710	1.627	1.544	1.460	1.439	1.418	1.398	1.377	1.356	1.325	1.293	1.262	1.231	1.199	1.220	1.241	1.262	1.283	1.304
	Surplus/deficit capacity	1.676	1.595	1.514	1.432	1.351	1.328	1.305	1.282	1.259	1.236	1.210	1.184	1.158	1.133	1.107	1.126	1.146	1.165	1.185	1.204
Hazardous waste recycling																					
	Total existing/planned hazardous waste recycling capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Surplus/deficit capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hazardous waste recovery																					
	Total existing/planned hazardous waste recovery capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Surplus/deficit capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Non-hazardous landfill																					
	Available non-hazardous landfill capacity (excluding residues from MSW and C&I recovery)	0.075	-0.096	-0.265	-0.430	-0.593	-0.751	-0.903	-1.047	-1.182	-1.312	-1.435	-1.555	-1.672	-1.787	-1.900	-2.009	-2.119	-2.228	-2.338	-2.448
	Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'Incineration (non-specialist)'	0.075	-0.100	-0.272	-0.442	-0.609	-0.772	-0.930	-1.081	-1.224	-1.363	-1.495	-1.625	-1.753	-1.878	-2.002	-2.123	-2.244	-2.365	-2.486	-2.607
	Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'MBT'	0.075	-0.110	-0.293	-0.475	-0.656	-0.834	-1.010	-1.181	-1.347	-1.510	-1.670	-1.830	-1.988	-2.145	-2.301	-2.456	-2.610	-2.764	-2.918	-3.071
	Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'RDF'	0.075	-0.099	-0.271	-0.439	-0.605	-0.768	-0.925	-1.074	-1.216	-1.353	-1.483	-1.611	-1.737	-1.860	-1.981	-2.100	-2.219	-2.337	-2.456	-2.575
	Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'treatment'	0.075	-0.107	-0.286	-0.464	-0.641	-0.815	-0.984	-1.149	-1.308	-1.463	-1.615	-1.764	-1.913	-2.060	-2.206	-2.350	-2.494	-2.637	-2.780	-2.923
Inert landfill																					
	Available inert landfill capacity	0.000	-0.062	-0.122	-0.181	-0.239	-0.295	-0.350	-0.402	-0.452	-0.501	-0.547	-0.592	-0.636	-0.678	-0.720	-0.759	-0.798	-0.835	-0.871	-0.905
	Available inert landfill capacity assuming all MSW and C&I recovery by 'Incineration (non-specialist)'	0.000	-0.065	-0.129	-0.192	-0.255	-0.316	-0.377	-0.436	-0.494	-0.551	-0.607	-0.662	-0.716	-0.769	-0.822	-0.873	-0.923	-0.971	-1.018	-1.064
Hazardous landfill																					
	Available hazardous landfill capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Note: The model does not contain data for the management of hazardous waste.

DATA_01: ARISINGS AND GROWTH RATES OF MSW, C&I AND HAZARDOUS WASTE (Million Tonnes)		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	Arisings of MSW in baseline year																					
	(1) Forecast regional level growth rate of MSW - per year (%)	3.0%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%
	(1) Forecast regional level growth rate of MSW - cumulative (%)	106%	109%	111%	114%	117%	120%	122%	125%	127%	130%	133%	135%	137%	139%	141%	143%	145%	147%	149%	152%	154%
	Total arisings of MSW using regional growth forecasts	0.134	0.137	0.141	0.144	0.148	0.152	0.155	0.158	0.161	0.164	0.167	0.170	0.173	0.175	0.178	0.180	0.183	0.186	0.189	0.191	0.194
	(1) Forecast sub-regional growth rate of MSW - per year (%)	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%
	(1) Forecast sub-regional level growth rate of MSW - cumulative (%)	104%	106%	108%	110%	113%	115%	117%	120%	122%	124%	127%	129%	132%	135%	137%	140%	143%	146%	149%	152%	155%
	Total arisings of MSW using sub-regional growth forecasts	0.131	0.134	0.137	0.140	0.142	0.145	0.148	0.151	0.154	0.157	0.160	0.163	0.167	0.170	0.173	0.177	0.180	0.184	0.188	0.192	0.195
c&i	Arisings of C&I in baseline year																					
	(1) Forecast regional level growth rate of C&I - per year (%)	3.3%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.0%	1.0%	1.0%	1.0%	1.0%
	(1) Forecast regional level growth rate of C&I - cumulative (%)	117%	120%	123%	126%	130%	133%	136%	138%	141%	144%	147%	149%	151%	153%	156%	158%	160%	161%	163%	164%	166%
	Total arisings of C&I using regional growth forecasts	0.094	0.096	0.099	0.101	0.104	0.106	0.108	0.111	0.113	0.115	0.117	0.119	0.121	0.123	0.125	0.126	0.128	0.129	0.130	0.132	0.133
	(1) Forecast sub-regional level growth rate of C&I - per year (%)	3.3%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.0%	1.0%	1.0%	1.0%	1.0%
	(1) Forecast sub-regional level growth rate of C&I - cumulative (%)	117%	120%	123%	126%	130%	133%	136%	138%	141%	144%	147%	149%	151%	153%	156%	158%	160%	161%	163%	164%	166%
	Total arisings of C&I using sub-regional growth forecasts	0.094	0.096	0.099	0.101	0.104	0.106	0.108	0.111	0.113	0.115	0.117	0.119	0.121	0.123	0.125	0.126	0.128	0.129	0.130	0.132	0.133
hazardous	Arisings of hazardous waste in baseline year																					
	(2) Forecast regional level growth rate of hazardous waste - per year (%)	3.3%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.0%	1.0%	1.0%	1.0%	1.0%
	Forecast regional level growth rate of hazardous waste - cumulative (%)	107%	109%	112%	115%	118%	121%	123%	126%	128%	131%	133%	135%	137%	139%	141%	144%	145%	146%	148%	149%	151%
	Total arisings of hazardous waste	0.015	0.016	0.016	0.016	0.017	0.017	0.018	0.018	0.018	0.019	0.019	0.019	0.020	0.020	0.020	0.021	0.021	0.021	0.021	0.021	0.022
	(2) Forecast sub-regional level growth rate of hazardous waste - per year (%)	3.3%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.0%	1.0%	1.0%	1.0%	1.0%
	Forecast sub regional level growth rate of hazardous waste - cumulative (%)	107%	109%	112%	115%	118%	121%	123%	126%	128%	131%	133%	135%	137%	139%	141%	144%	145%	146%	148%	149%	151%
	Total arisings of hazardous waste	0.015	0.016	0.016	0.016	0.016	0.017	0.017	0.018	0.018	0.018	0.019	0.019	0.019	0.020	0.020	0.020	0.021	0.021	0.021	0.021	0.022
c&d	Total managed C&D in baseline year																					
	(3) Forecast regional-level growth rate of managed C&D - per year (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Forecast regional-level growth rate of managed C&D - cumulative (%)	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
	(3) Total managed of C&D for the sub-region	0.332	0.332	0.332	0.332	0.332	0.332	0.332	0.332	0.332	0.332	0.332	0.332	0.332	0.332	0.332	0.332	0.332	0.332	0.332	0.332	0.332

(1) Figures from SEERA updated waste capacity model by ERM in 2005.
(2) Baseline year of hazardous waste arisings is 2003 from EA Hazardous Waste Interrogator. www.environment-agency.gov.uk/apps/wastesurvey2/. ERM has assumed that growth in hazardous waste is equal to C&I waste.
(3) These data represent managed C&D waste in the sub-region, including all intra-regional and inter-regional movements. Growth is assumed to be zero from the orginal MEL study and updated modeted by ERM in 2005.
NOTE: C&D waste is not included in arisings because this was taken from survey data by Symonds 2001 which gave values for managed C&D waste.

Medway

Figure in blue represent data supplied by each sub-region for the new '2006 SEERA Capacity and Need Model'
Figures in orange represent managed waste that are used by the model to calculate results. These can be adjusted for different scenarios.

DATA_02: INTER REGIONAL MOVEMENTS OF MSW and C&I (Million Tonnes)		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw and c&i	Regional level imports of MSW and C&I waste into the SE region from London	1.76	1.716	1.672	1.628	1.584	1.54	1.454	1.368	1.282	1.196	1.11	1.064	1.018	0.972	0.926	0.88	0.86	0.84	0.82	0.8	0.78
	Proportion of regional MSW and C&I imports that go to the sub-region (%)	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%
	(1) Total imports of MSW and C&I from London into sub-region sent direct to landfill	0.017	0.017	0.016	0.016	0.015	0.015	0.014	0.013	0.012	0.012	0.011	0.010	0.010	0.009	0.009	0.009	0.008	0.008	0.008	0.008	0.008
msw	Proportion of total MSW and C&I imports that are MSW (%) - REGIONAL GROWTH FORECAST	59%	59%	59%	59%	59%	59%	59%	59%	59%	59%	59%	59%	59%	59%	59%	59%	59%	59%	59%	59%	59%
	Total imports of MSW into the sub-region from London - REGIONAL GROWTH FORECAST	0.010	0.010	0.010	0.009	0.009	0.009	0.008	0.008	0.007	0.007	0.006	0.006	0.006	0.006	0.005	0.005	0.005	0.005	0.005	0.005	0.004
	Proportion of total MSW and C&I imports that are MSW (%) - SUB-REGIONAL GROWTH FORECAST	58%	58%	58%	58%	58%	58%	58%	58%	58%	58%	58%	58%	58%	58%	58%	58%	59%	59%	59%	59%	60%
	Total imports of MSW into the sub-region from London - SUB-REGIONAL GROWTH FORECAST	0.010	0.010	0.009	0.009	0.009	0.009	0.008	0.008	0.007	0.007	0.006	0.006	0.006	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
c&i	Proportion of total MSW and C&I imports that are C&I (%) - REGIONAL GROWTH FORECAST	41%	41%	41%	41%	41%	41%	41%	41%	41%	41%	41%	41%	41%	41%	41%	41%	41%	41%	41%	41%	41%
	Total imports of C&I into the sub-region from London - REGIONAL GROWTH FORECAST	0.007	0.007	0.007	0.007	0.006	0.006	0.006	0.005	0.005	0.005	0.004	0.004	0.004	0.004	0.004	0.004	0.003	0.003	0.003	0.003	0.003
	Proportion of total MSW and C&I imports that are C&I (%) - SUB-REGIONAL GROWTH FORECAST	42%	42%	42%	42%	42%	42%	42%	42%	42%	42%	42%	42%	42%	42%	42%	42%	41%	41%	41%	41%	40%
	Total imports of C&I into the sub-region from London - SUB-REGIONAL GROWTH FORECAST	0.007	0.007	0.007	0.007	0.006	0.006	0.006	0.006	0.005	0.005	0.005	0.004	0.004	0.004	0.004	0.004	0.003	0.003	0.003	0.003	0.003

(1) Intra-regional and inter-regional movements have been excluded for MSW and C&I waste due to self-sufficiency requirements under PPS10, except for inter-regional movements from London into the sub-region. Apportionment from Policy W3 in the Plan – downloa
Note: Only a figure is available for total combined imports of MSW and C&I waste. ERM has assumed that imports of the seperate waste streams of MSW and C&I was split according to tonnage arisings of MSW and C&I in the sub-region.

DATA_03: MANAGED WASTE USED TO GENERATE RESULTS (Million Tonnes)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	0.134	0.137	0.141	0.144	0.148	0.152	0.155	0.158	0.161	0.164	0.167	0.170	0.173	0.175	0.178	0.180	0.183	0.186	0.189	0.191	0.194
msw - imports from london that are sent direct to non-hazardous landfill	0.010	0.010	0.010	0.009	0.009	0.009	0.008	0.008	0.007	0.007	0.006	0.006	0.006	0.006	0.005	0.005	0.005	0.005	0.005	0.005	0.004
c&i	0.094	0.096	0.099	0.101	0.104	0.106	0.108	0.111	0.113	0.115	0.117	0.119	0.121	0.123	0.125	0.126	0.128	0.129	0.130	0.132	0.133
c&I - imports from london that are sent direct to non-hazardous landfill	0.007	0.007	0.007	0.007	0.006	0.006	0.006	0.005	0.005	0.005	0.004	0.004	0.004	0.004	0.004	0.004	0.003	0.003	0.003	0.003	0.003
c&d	0.332	0.332	0.332	0.332	0.332	0.332	0.332	0.332	0.332	0.332	0.332	0.332	0.332	0.332	0.332	0.332	0.332	0.332	0.332	0.332	0.332
hazardous	0.015	0.016	0.016	0.016	0.017	0.017	0.018	0.018	0.018	0.019	0.019	0.019	0.020	0.020	0.020	0.021	0.021	0.021	0.021	0.021	0.022

DATA_04: TARGETS (% or Million Tonnes)		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	(1) landfill (Mt)	0.081	0.078	0.074	0.068	0.061	0.053	0.047	0.041	0.035	0.034	0.032	0.031	0.029	0.028	0.026	0.025	0.025	0.025	0.025	0.025	0.025
	recovered (%)	5	6.4	7.8	9.2	10.6	12	14.4	16.8	19.2	21.6	24	24.8	25.6	26.4	27.2	28	27.2	26.4	25.6	24.8	24
	recycled and composted (%)	30	32.0	34.0	36.0	38.0	40	42.0	44.0	46.0	48.0	50	51.0	52.0	53.0	54.0	55	56.0	57.0	58.0	59.0	60
c&i	recovered (%)	14	14.2	14.4	14.6	14.8	15	16.0	17.0	18.0	19.0	20	20.2	20.4	20.6	20.8	21	20.6	20.2	19.8	19.4	19
	recycled and composted (%)	40	42.0	44.0	46.0	48.0	50	51.0	52.0	53.0	54.0	55	56.0	57.0	58.0	59.0	60	61.0	62.0	63.0	64.0	65
c&d	recovered (%)	36	35.4	34.8	34.2	33.6	33	33.6	34.2	34.8	35.4	36	34.4	32.8	31.2	29.6	28	28.4	28.8	29.2	29.6	30
	recycled (%)	45	46.0	47.0	48.0	49.0	50	50.0	50.0	50.0	50.0	50	52.0	54.0	56.0	58.0	60	60.0	60.0	60.0	60.0	60
hazardous	landfill (%)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	recovered (%)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	recycled (%)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

(1) ERM has assumed that the LATS target allowance remains constant at the 2020 value for the years beyond 2020

DATA_05: WASTE STREAM TONNAGES TO MEET TARGETS (Million Tonnes)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025

This first section of DATA_03 calculates if there is a LATS shortfall or suplus in each year. If there is a LATS shortfall (ie insufficient allowance to landfill non-diverted waste) then the model assumes that this extra waste is recycled/composted and r

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	Total MSW to be recovered and recycled/composted to meet target	0.047	0.053	0.059	0.065	0.072	0.079	0.087	0.096	0.105	0.114	0.124	0.129	0.134	0.139	0.144	0.150	0.152	0.155	0.158	0.160	0.163
	Total MSW not-diverted by targets	0.087	0.085	0.082	0.079	0.076	0.073	0.067	0.062	0.056	0.050	0.044	0.041	0.039	0.036	0.033	0.031	0.031	0.031	0.031	0.031	0.031
	Percentage of MSW that is biodegradable (% by weight)	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68
	Total BMW not-diverted by targets	0.059	0.058	0.056	0.054	0.052	0.050	0.046	0.042	0.038	0.034	0.030	0.028	0.026	0.025	0.023	0.021	0.021	0.021	0.021	0.021	0.021
	LATS shortfall (how much extra is landfilled above LATS target)	-0.021	-0.020	-0.018	-0.014	-0.009	-0.003	-0.001	0.001	0.003	0.000	-0.002	-0.003	-0.003	-0.003	-0.003	-0.004	-0.004	-0.004	-0.004	-0.003	-0.003
	Ratio of 'recovered' to 'recycled/composted' for target (%)	14%	17%	19%	20%	22%	23%	26%	28%	29%	31%	32%	33%	33%	33%	33%	34%	33%	32%	31%	30%	29%
	Extra MSW 'recovery' needed due to LATS shortfall	0.000	0.000	0.000	0.000	0.000	0.000	0.000	*0.000*	*0.001*	*0.000*	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Extra MSW 'recycling/composting' needed due to LATS shortfall	0.000	0.000	0.000	0.000	0.000	0.000	0.000	*0.001*	*0.002*	*0.000*	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

The section below in DATA_03 shows the tonnages by waste to meet targets.

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	Recycling and composting target	0.040	0.044	0.048	0.052	0.056	0.061	0.065	0.070	0.076	0.079	0.084	0.087	0.090	0.093	0.096	0.099	0.103	0.106	0.109	0.113	0.117
	Recovery target	0.007	0.009	0.011	0.013	0.016	0.018	0.022	0.027	0.032	0.036	0.040	0.042	0.044	0.046	0.048	0.051	0.050	0.049	0.048	0.047	0.047
	Non-hazardous landfill	0.087	0.085	0.082	0.079	0.076	0.073	0.067	0.061	0.053	0.050	0.044	0.041	0.039	0.036	0.033	0.031	0.031	0.031	0.031	0.031	0.031
	CHECK COUNTER (should be zero)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
c&i	Recycling and composting target	0.038	0.040	0.043	0.047	0.050	0.053	0.055	0.058	0.060	0.062	0.065	0.067	0.069	0.071	0.074	0.076	0.078	0.080	0.082	0.084	0.086
	Recovery target	0.013	0.014	0.014	0.015	0.015	0.016	0.017	0.019	0.020	0.022	0.023	0.024	0.025	0.025	0.026	0.027	0.026	0.026	0.026	0.026	0.025
	Non-hazardous landfill	0.043	0.042	0.041	0.040	0.039	0.037	0.036	0.034	0.033	0.031	0.029	0.028	0.027	0.026	0.025	0.024	0.023	0.023	0.022	0.022	0.021
	CHECK COUNTER (should be zero)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

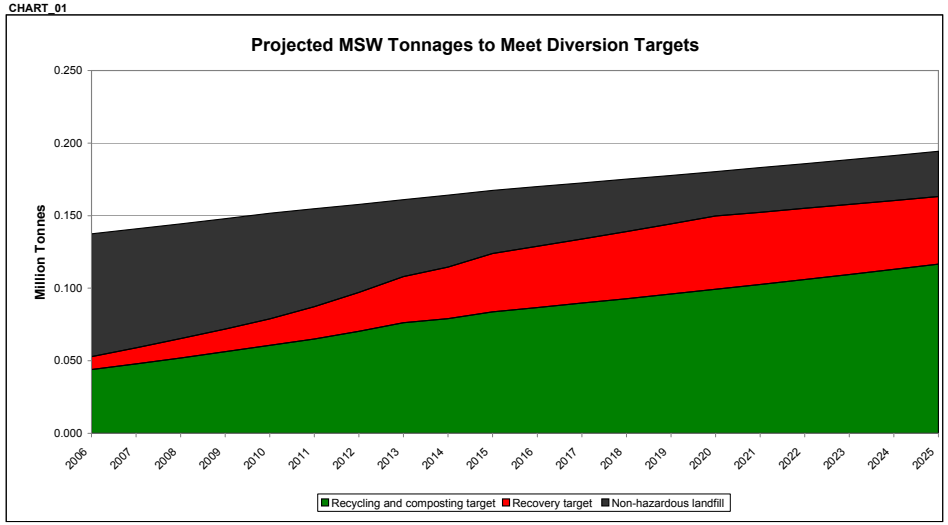
		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
c&d	Recycling target	0.149	0.153	0.156	0.159	0.162	0.166	0.166	0.166	0.166	0.166	0.166	0.172	0.179	0.186	0.192	0.199	0.199	0.199	0.199	0.199	0.199
	Recovery target	0.119	0.117	0.115	0.113	0.111	0.109	0.111	0.113	0.115	0.117	0.119	0.114	0.109	0.103	0.098	0.093	0.094	0.096	0.097	0.098	0.099
	Inert landfill	0.063	0.062	0.060	0.059	0.058	0.056	0.054	0.052	0.050	0.048	0.046	0.045	0.044	0.042	0.041	0.040	0.038	0.037	0.036	0.034	0.033
	CHECK COUNTER (should be zero)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
hazardous	Hazardous waste	0.015	0.016	0.016	0.016	0.017	0.017	0.018	0.018	0.018	0.019	0.019	0.019	0.020	0.020	0.020	0.021	0.021	0.021	0.021	0.021	0.022

DATA_06: TOTAL WASTE TONNAGES TO MEET TARGETS (Million Tonnes)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
MSW and C&I recycling and composting target	0.078	0.084	0.091	0.099	0.106	0.114	0.120	0.128	0.136	0.141	0.148	0.153	0.159	0.164	0.169	0.175	0.180	0.186	0.191	0.197	0.203
C&D recycling target	0.149	0.153	0.156	0.159	0.162	0.166	0.166	0.166	0.166	0.166	0.166	0.172	0.179	0.186	0.192	0.199	0.199	0.199	0.199	0.199	0.199
MSW and C&I recovery target	0.020	0.022	0.025	0.028	0.031	0.034	0.040	0.046	0.052	0.057	0.064	0.066	0.069	0.072	0.074	0.077	0.076	0.075	0.074	0.073	0.072
C&D recovery target	0.119	0.117	0.115	0.113	0.111	0.109	0.111	0.113	0.115	0.117	0.119	0.114	0.109	0.103	0.098	0.093	0.094	0.096	0.097	0.098	0.099
Non-hazardous landfill	0.130	0.127	0.123	0.119	0.115	0.110	0.103	0.095	0.086	0.081	0.073	0.069	0.066	0.062	0.059	0.055	0.054	0.054	0.053	0.053	0.052
Inert landfill	0.063	0.062	0.060	0.059	0.058	0.056	0.054	0.052	0.050	0.048	0.046	0.045	0.044	0.042	0.041	0.040	0.038	0.037	0.036	0.034	0.033
Hazardous waste	0.015	0.016	0.016	0.016	0.017	0.017	0.018	0.018	0.018	0.019	0.019	0.019	0.020	0.020	0.020	0.021	0.021	0.021	0.021	0.021	0.022

Medway

CHART_01



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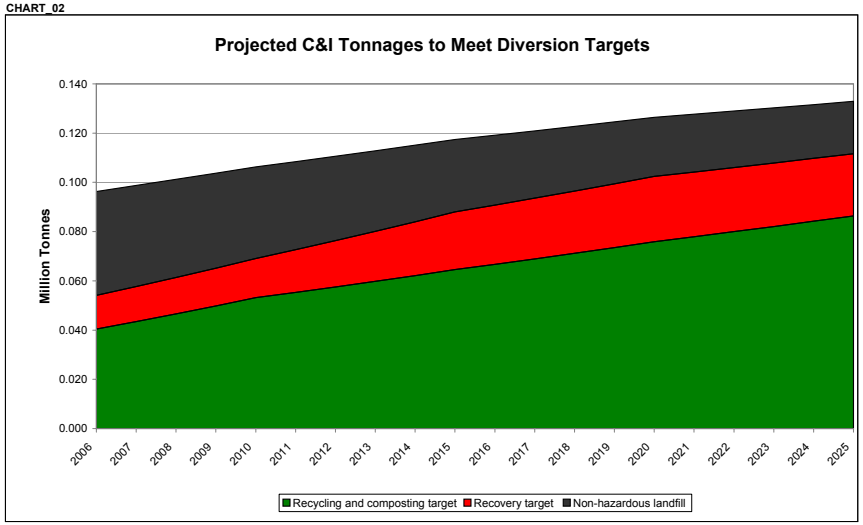

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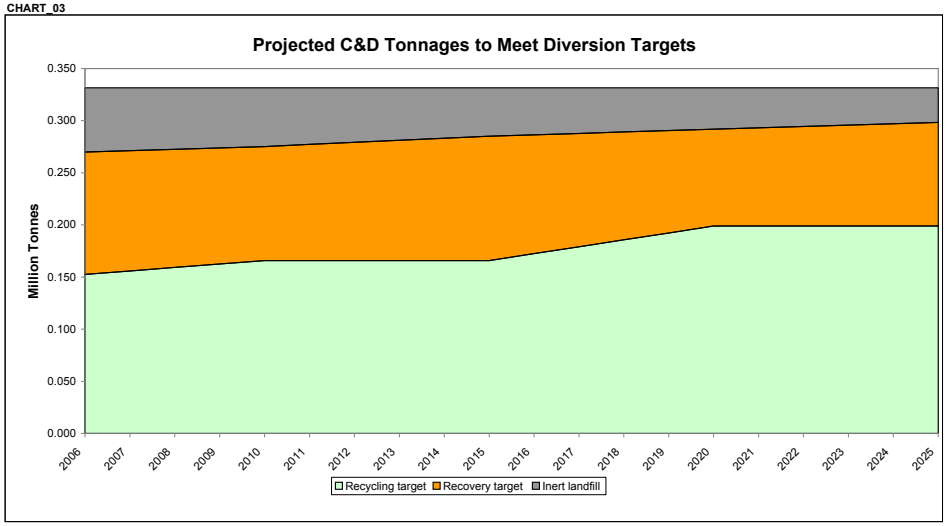

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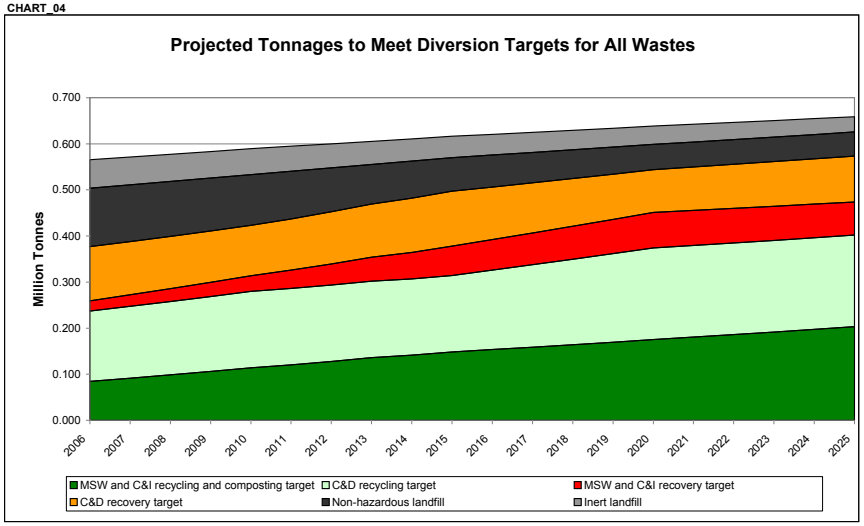
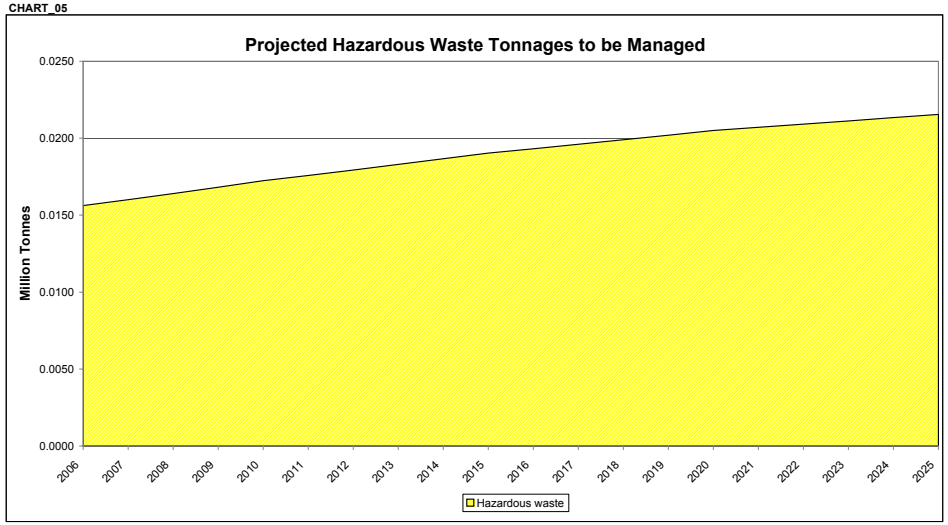


Medway

CHART_05



DATA_07: EXISTING/PLANNED CAPACITY FOR RECYCLING, RECOVERY AND LANDFILLING AND TOTAL WASTE TONNAGES TO EACH DISPOSAL ROUTE (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
MSW and C&I recovery																					
MSW and C&I incineration (non-specialist)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
MSW and C&I treatment	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
Total existing/planned MSW and C&I recovery capacity	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
Total MSW waste required to meet target	0.007	0.009	0.011	0.013	0.016	0.018	0.022	0.027	0.032	0.036	0.040	0.042	0.044	0.046	0.048	0.051	0.050	0.049	0.048	0.047	0.047
Total C&I waste required to meet target	0.013	0.014	0.014	0.015	0.015	0.016	0.017	0.019	0.020	0.022	0.023	0.024	0.025	0.025	0.026	0.027	0.026	0.026	0.026	0.026	0.025
Surplus/deficit capacity	-0.015	-0.017	-0.020	-0.023	-0.026	-0.029	-0.035	-0.041	-0.047	-0.052	-0.059	-0.061	-0.064	-0.067	-0.069	-0.072	-0.071	-0.070	-0.069	-0.068	-0.067
MSW and C&I recycling and composting																					
MSW and C&I recycling	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
MSW and C&I transfer	0.878	0.878	0.878	0.878	0.878	0.878	0.878	0.878	0.878	0.878	0.878	0.878	0.878	0.878	0.878	0.878	0.878	0.878	0.878	0.878	0.878
Total existing/planned MSW and C&I composting capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
(1) Total existing/planned MSW and C&I recycling and composting capacity (Baseline: 20% of transfer capacity delivers recycling)	0.176	0.176	0.176	0.176	0.176	0.176	0.176	0.176	0.176	0.176	0.176	0.176	0.176	0.176	0.176	0.176	0.176	0.176	0.176	0.176	0.176
(2) Total existing/planned MSW and C&I recycling and composting capacity (Sensitivity: 5% of transfer capacity delivers recycling)	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.044	0.044
Total MSW waste required to meet recycling and composting target	0.040	0.044	0.048	0.052	0.056	0.061	0.065	0.070	0.076	0.079	0.084	0.087	0.090	0.093	0.096	0.099	0.103	0.106	0.109	0.113	0.117
Total C&I waste required to meet recycling and composting target	0.038	0.040	0.043	0.047	0.050	0.053	0.055	0.058	0.060	0.062	0.065	0.067	0.069	0.071	0.074	0.076	0.078	0.080	0.082	0.084	0.086
Surplus/deficit capacity (Baseline: 20% of transfer capacity delivers recycling)	0.098	0.091	0.084	0.077	0.070	0.062	0.055	0.048	0.040	0.034	0.027	0.022	0.017	0.012	0.006	0.001	-0.005	-0.010	-0.016	-0.022	-0.027
Surplus/deficit capacity (Sensitivity: 5% of transfer capacity delivers recycling)	-0.034	-0.041	-0.047	-0.055	-0.062	-0.070	-0.076	-0.084	-0.092	-0.097	-0.104	-0.109	-0.115	-0.120	-0.126	-0.131	-0.137	-0.142	-0.148	-0.153	-0.159
C&D recycling																					
Total existing/planned C&D recycling capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total waste required to meet C&D recycling target	0.149	0.153	0.156	0.159	0.162	0.166	0.166	0.166	0.166	0.166	0.166	0.172	0.179	0.186	0.192	0.199	0.199	0.199	0.199	0.199	0.199
Surplus/deficit capacity	-0.149	-0.153	-0.156	-0.159	-0.162	-0.166	-0.166	-0.166	-0.166	-0.166	-0.166	-0.172	-0.179	-0.186	-0.192	-0.199	-0.199	-0.199	-0.199	-0.199	-0.199
C&D recovery																					
(3) REGIONAL total existing/planned C&D recovery capacity	1.877	1.794	1.710	1.627	1.544	1.460	1.439	1.418	1.398	1.377	1.356	1.325	1.293	1.262	1.231	1.199	1.220	1.241	1.262	1.283	1.304
Sub-regional total waste required to meet C&D recovery target	0.119	0.117	0.115	0.113	0.111	0.109	0.111	0.113	0.115	0.117	0.119	0.114	0.109	0.103	0.098	0.093	0.094	0.096	0.097	0.098	0.099
Surplus/deficit capacity	1.758	1.676	1.595	1.514	1.432	1.351	1.328	1.305	1.282	1.259	1.236	1.210	1.184	1.158	1.133	1.107	1.126	1.146	1.165	1.185	1.204
Hazardous waste recycling																					
Total existing/planned hazardous waste recycling capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total hazardous waste to be recycled	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Surplus/deficit capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hazardous waste recovery																					
Total existing/planned hazardous waste recovery capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total hazardous waste to be recovered	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Surplus/deficit capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Non-hazardous landfill																					
Available non-hazardous landfill capacity (excluding residues from MSW and C&I recovery)		0.075	-0.096	-0.265	-0.430	-0.593	-0.751	-0.903	-1.047	-1.182	-1.312	-1.435	-1.555	-1.672	-1.787	-1.900	-2.009	-2.119	-2.228	-2.338	-2.448
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'Incineration (non-specialist)'		0.075	-0.100	-0.272	-0.442	-0.609	-0.772	-0.930	-1.081	-1.224	-1.363	-1.495	-1.625	-1.753	-1.878	-2.002	-2.123	-2.244	-2.365	-2.486	-2.607
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'MBT'		0.075	-0.110	-0.293	-0.475	-0.656	-0.834	-1.010	-1.181	-1.347	-1.510	-1.670	-1.830	-1.988	-2.145	-2.301	-2.456	-2.610	-2.764	-2.918	-3.071
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'RDF'		0.075	-0.099	-0.271	-0.439	-0.605	-0.768	-0.925	-1.074	-1.216	-1.353	-1.483	-1.611	-1.737	-1.860	-1.981	-2.100	-2.219	-2.337	-2.456	-2.575
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'treatment'		0.075	-0.107	-0.286	-0.464	-0.641	-0.815	-0.984	-1.149	-1.308	-1.463	-1.615	-1.764	-1.913	-2.060	-2.206	-2.350	-2.494	-2.637	-2.780	-2.923
Total MSW and C&I waste sent direct to non-hazardous landfill		0.127	0.123	0.119	0.115	0.110	0.103	0.095	0.086	0.081	0.073	0.069	0.066	0.062	0.059	0.055	0.054	0.054	0.053	0.053	0.052
Inert landfill																					
Available inert landfill capacity		0.000	-0.062	-0.122	-0.181	-0.239	-0.295	-0.350	-0.402	-0.452	-0.501	-0.547	-0.592	-0.636	-0.678	-0.720	-0.759	-0.798	-0.835	-0.871	-0.905
Available inert landfill capacity assuming all MSW and C&I recovery by 'Incineration (non-specialist)'		0.000	-0.065	-0.129	-0.192	-0.255	-0.316	-0.377	-0.436	-0.494	-0.551	-0.607	-0.662	-0.716	-0.769	-0.822	-0.873	-0.923	-0.971	-1.018	-1.064
Total C&D waste sent direct to inert landfill	0.063	0.062	0.060	0.059	0.058	0.056	0.054	0.052	0.050	0.048	0.046	0.045	0.044	0.042	0.041	0.040	0.038	0.037	0.036	0.034	0.033
Hazardous landfill																					
Available hazardous landfill capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total hazardous waste sent direct to hazardous landfill	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Other																					
Metal/ELV facility	0.414	0.414	0.414	0.414	0.414	0.414	0.414	0.414	0.414	0.414	0.414	0.414	0.414	0.414	0.414	0.414	0.414	0.414	0.414	0.414	0.414
Ignored	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Closed	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

(1) ERM has assumed that 20% of the total 'transfer' capacity will deliver recycling capacity
(2) ERM has assumed that 5% of the total 'transfer' capacity will deliver recycling capacity
(3) Data for C&D recovery for landfill cover for the SE Region were sourced from the original MEL model, which sourced the data from Symonds (2001)
Note:

Medway

DATA_08: RESIDUE RATES (%)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Recovery residues (% by weight)																					
MSW and C&I incineration (non-specialist) - bottom ash	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
MSW and C&I incineration (non-specialist) - fly ash	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
MSW and C&I to MBT	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59
MSW and C&I to RDF	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
MSW and C&I treatment - non-hazardous	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45
MSW and C&I treatment - hazardous	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Hazardous waste recovery	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Recycling residues (% by weight)																					
MSW and C&I recycling	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
MSW and C&I transfer	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
MSW and C&I composting	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
C&D recycling	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Hazardous waste recycling	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Other																					
Metal/ELV facility	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Ignored	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Closed	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Note: All residues are calculated on the amount of waste arising not on the maount of capacity available. This is complaince with the self-sufficiency requirements of PPS10.

DATA_09: TOTAL RESIDUE (Million Tonnes)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Recovery residues (of waste managed):																					
MSW and C&I incineration (non-specialist) - bottom ash	0.006	0.007	0.008	0.008	0.009	0.010	0.012	0.014	0.016	0.017	0.019	0.020	0.021	0.021	0.022	0.023	0.023	0.023	0.022	0.022	0.022
MSW and C&I incineration (non-specialist) - fly ash	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
MSW and C&I to MBT	0.012	0.013	0.015	0.017	0.018	0.020	0.023	0.027	0.031	0.034	0.038	0.039	0.041	0.042	0.044	0.045	0.045	0.044	0.044	0.043	0.042
MSW and C&I to RDF	0.002	0.003	0.003	0.003	0.004	0.004	0.005	0.005	0.006	0.007	0.008	0.008	0.008	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009
MSW and C&I treatment - non-hazardous	0.009	0.010	0.011	0.013	0.014	0.015	0.018	0.021	0.023	0.026	0.029	0.030	0.031	0.032	0.033	0.035	0.034	0.034	0.033	0.033	0.032
MSW and C&I treatment - hazardous	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.003	0.003	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
Hazardous waste recovery	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Recycling residues (of waste managed):																					
MSW and C&I recycling and composting	0.012	0.013	0.014	0.015	0.016	0.017	0.018	0.019	0.020	0.021	0.022	0.023	0.024	0.025	0.025	0.026	0.027	0.028	0.029	0.030	0.030
C&D recycling	0.015	0.015	0.016	0.016	0.016	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.018	0.019	0.019	0.020	0.020	0.020	0.020	0.020	0.020
Hazardous waste recycling	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Note: All residues are calculated on the amount of waste arising not on the maount of capacity available. This is complaince with the self-sufficiency requirements of PPS10.

DATA_10: TOTAL MSW AND C&I RESIDUE FROM RECYCLING SENT TO NON-HAZARDOUS LANDFILL (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Total MSW and C&I recycling and composting residue sent to non-hazardous landfill	0.027	0.028	0.029	0.031	0.032	0.034	0.035	0.036	0.037	0.038	0.039	0.040	0.042	0.043	0.045	0.046	0.047	0.048	0.049	0.049	0.050

DATA_11: TOTAL MSW AND C&I RESIDUE FROM RECOVERY SENT TO NON-HAZARDOUS LANDFILL AND C&D RECYCLING (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
SCENARIO 1 - Assumes all recovery is by 'Non-specialist incineration' (based on total recovery capacity)																					
(1) Total MSW and C&I residue sent to non-hazardous landfill assuming all MSW and C&I recovery by 'Non-specialist incineration'	0.003	0.003	0.004	0.004	0.005	0.005	0.006	0.007	0.008	0.009	0.010	0.010	0.010	0.011	0.011	0.012	0.011	0.011	0.011	0.011	0.011
(1) Total MSW and C&I residue sent to inert landfill assuming all MSW and C&I recovery by 'Non-specialist incineration'	0.003	0.003	0.004	0.004	0.005	0.005	0.006	0.007	0.008	0.009	0.010	0.010	0.010	0.011	0.011	0.012	0.011	0.011	0.011	0.011	0.011
SCENARIO 2 - Assumes all recovery is by 'MBT' (based on total recovery capacity)																					
Total MSW and C&I residue sent to non-hazardous landfill	0.012	0.013	0.015	0.017	0.018	0.020	0.023	0.027	0.031	0.034	0.038	0.039	0.041	0.042	0.044	0.045	0.045	0.044	0.044	0.043	0.042
SCENARIO 3 - Assumes all recovery is by 'RDF' (based on total recovery capacity)																					
Total MSW and C&I residue sent to non-hazardous landfill	0.002	0.003	0.003	0.003	0.004	0.004	0.005	0.005	0.006	0.007	0.008	0.008	0.008	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009
SCENARIO 4 - Assumes all recovery is by 'treatment' (based on total recovery capacity)																					
Total MSW and C&I residue sent to non-hazardous landfill	0.009	0.010	0.011	0.013	0.014	0.015	0.018	0.021	0.023	0.026	0.029	0.030	0.031	0.032	0.033	0.035	0.034	0.034	0.033	0.033	0.032

(1) It was assumed that 50% of residue from 'non-specialist incineration' is sent to non-hazardous landfill and 50% is sent to inert landfill. In the original model assumptions developed MEL 50% was assumed to go to C&D recycling, rather than to inert landfi

DATA_12: TONNAGES OF C&D REUSED ON NON-HAZARDOUS AND INERT LANDFILL (Million Tonnes)

(1) C&D reused on landfill sites	39	%
(1) C&D reused on exempt sites	61	%
(1) C&D reused on landfill sites sent to 'non-haz landfill'	30	%
(1) C&D reused on landfill sites sent to 'inert landfill'	70	%

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
c&d	Total C&D reused on non-hazardous landfill	0.014	0.014	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.014	0.014	0.013	0.013	0.012	0.011	0.011	0.011	0.011	0.011	0.011	0.012
	Total reused C&D on inert landfill	0.032	0.032	0.031	0.031	0.030	0.030	0.030	0.031	0.031	0.032	0.032	0.031	0.030	0.028	0.027	0.025	0.026	0.026	0.026	0.027	0.027

(1) C&D reuse rates based on original model assumptions developed MEL
NOTE: C&D reuse on inert and non-hazardous landfill is not included within the charts because it has been assumed that data supplied by each sub-region has accounted for C&D reuse as an engineering material.

DATA_13: TOTAL MSW AND C&I RESIDUE FROM RECYCLING SENT TO HAZARDOUS LANDFILL (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Total MSW and C&I recycling and composting residue sent to hazardous landfill	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

DATA_14: TOTAL MSW AND C&I RESIDUE FROM RECOVERY SENT TO HAZARDOUS LANDFILL (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
SCENARIO 1 - Assumes all recovery is by 'Non-specialist incineration' (based on total recovery capacity)																					
Total MSW and C&I residue sent to hazardous landfill assuming all MSW and C&I recovery by 'Non-specialist incineration'	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
SCENARIO 2 - Assumes all recovery is by 'MBT' (based on total recovery capacity)																					
Total MSW and C&I residue sent to hazardous landfill	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SCENARIO 3 - Assumes all recovery is by 'RDF' (based on total recovery capacity)																					
Total MSW and C&I residue sent to hazardous landfill	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SCENARIO 4 - Assumes all recovery is by 'treatment' (based on total recovery capacity)																					
Total MSW and C&I residue sent to hazardous landfill	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.003	0.003	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004

NOTE: This element of the model is redundant. There is currently no hazardous waste capacity figures to generate a chart of managed waste versus available capacity.

DATA_15: TOTAL HAZARDOUS WASTE RESIDUE FROM RECOVERY AND RECYCLING SENT TO HAZARDOUS LANDFILL (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Total hazardous waste recycling and recovery residue sent to hazardous landfill	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Medway

CHART_06

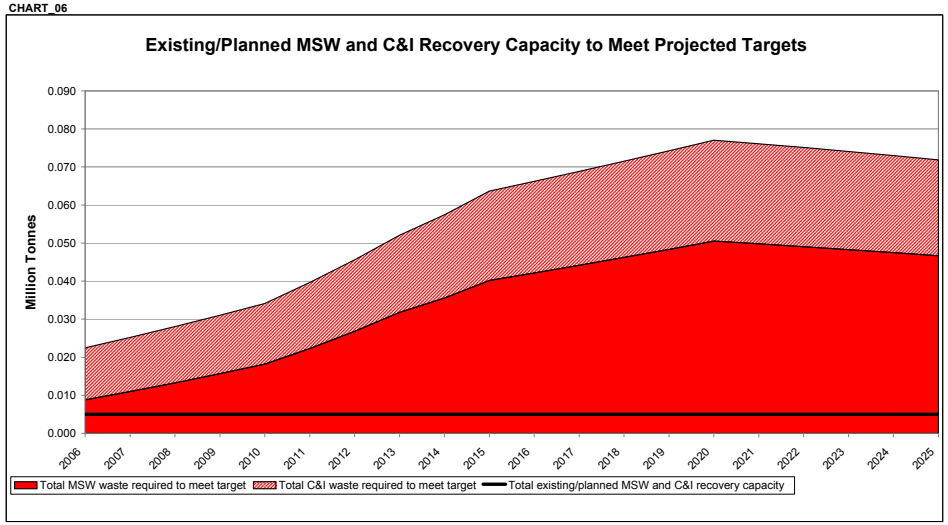


CHART_07

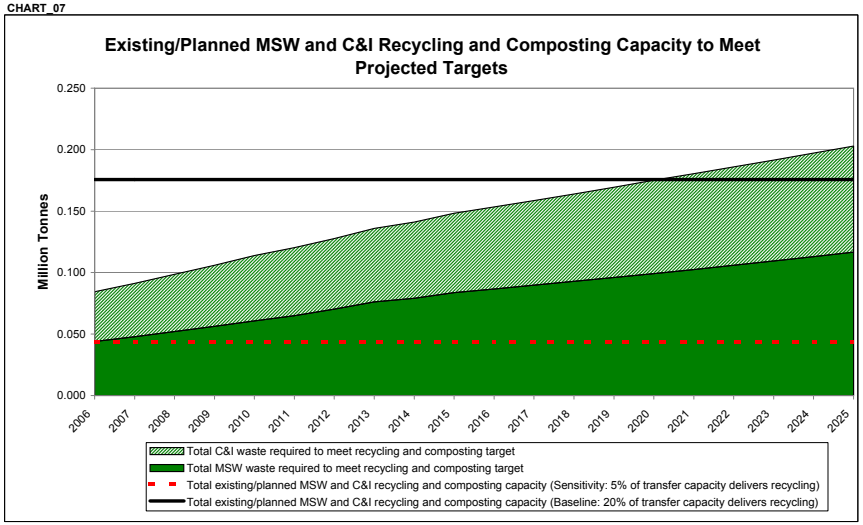
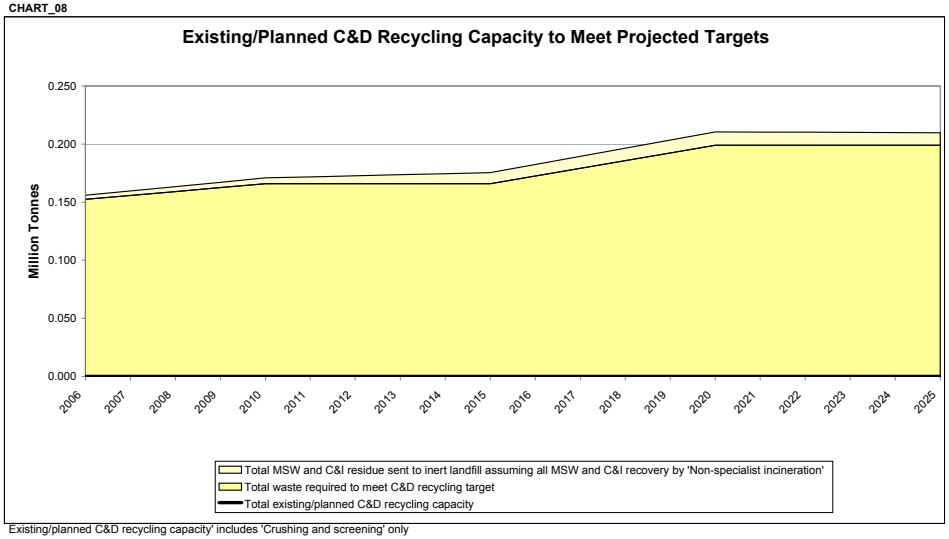


CHART_08



Existing/planned C&D recycling capacity' includes 'Crushing and screening' only
NOTE: This capacity does not represent the quantity of material that is recycled.
NOTE: Residue from MSW and C&I recovery is based on existing/planned capacity (not waste tonnage to meet recovery target)

Medway

CHART_09

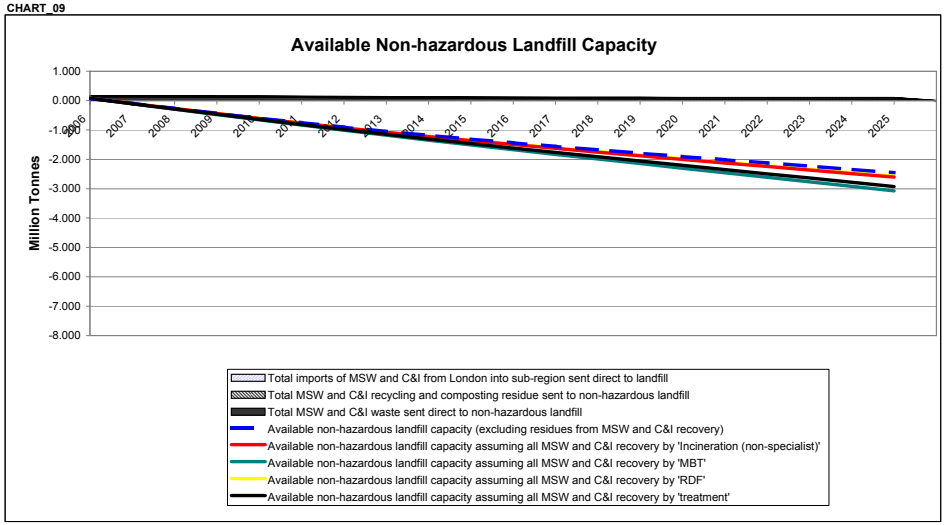
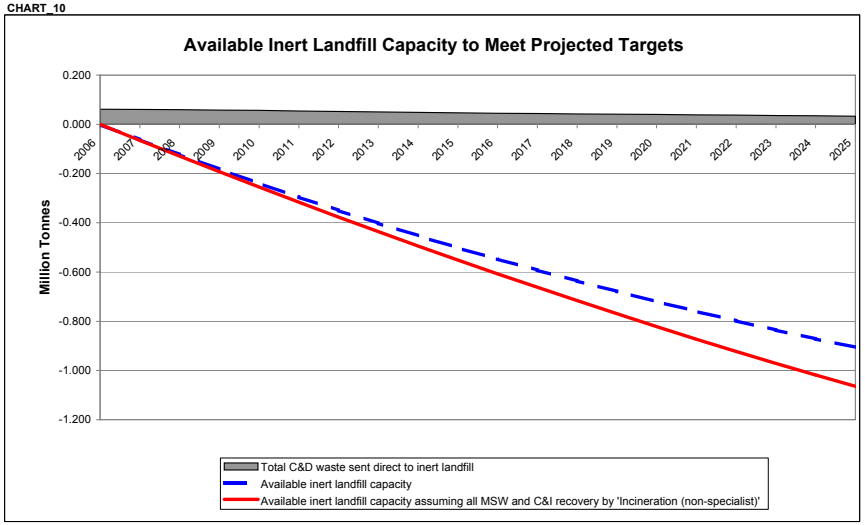


CHART_10



NOTE: The graph assumes that the baseline capacity for non-hazardous landfill has accounted for C&D reuse as a landfill engineering material.

Milton Keynes

SUMMARY DATA AND RESULTS FOR MILTON KEYNES

MANAGED WASTE USED TO GENERATE RESULTS (Million Tonnes)	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	0.132	0.135	0.138	0.142	0.145	0.148	0.151	0.154	0.157	0.160	0.163	0.165	0.168	0.170	0.173	0.175	0.178	0.181	0.183	0.186
msw - imports from london that are sent direct to non-hazardous landfill	0.146	0.142	0.138	0.135	0.131	0.123	0.116	0.109	0.102	0.094	0.090	0.086	0.083	0.079	0.075	0.073	0.071	0.070	0.068	0.067
c&i	0.025	0.026	0.026	0.027	0.027	0.028	0.029	0.029	0.030	0.030	0.031	0.031	0.032	0.032	0.033	0.033	0.033	0.034	0.034	0.034
c&i - imports from london that are sent direct to non-hazardous landfill	0.028	0.027	0.026	0.025	0.025	0.023	0.022	0.021	0.019	0.018	0.017	0.016	0.016	0.015	0.014	0.014	0.013	0.013	0.013	0.012
c&d	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063
hazardous	0.011	0.011	0.011	0.012	0.012	0.012	0.013	0.013	0.013	0.013	0.013	0.014	0.014	0.014	0.014	0.014	0.015	0.015	0.015	0.015

WASTE STREAM TONNAGES TO MEET TARGETS (Million Tonnes)		2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	LATS shortfall (how much extra is landfilled above LATS target)	-0.011	-0.009	-0.006	-0.002	0.003	0.004	0.006	0.007	0.004	0.001	0.001	0.000	0.000	0.000	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
	Recycling and composting target	0.042	0.046	0.050	0.054	0.060	0.065	0.071	0.076	0.078	0.081	0.084	0.086	0.089	0.092	0.095	0.098	0.101	0.105	0.108	0.112
	Recovery target	0.008	0.011	0.013	0.015	0.018	0.022	0.027	0.032	0.035	0.039	0.041	0.042	0.044	0.046	0.048	0.048	0.047	0.046	0.045	0.045
	Non-hazardous landfill	0.081	0.079	0.076	0.073	0.067	0.060	0.054	0.047	0.044	0.041	0.039	0.037	0.034	0.032	0.029	0.029	0.030	0.030	0.030	0.030
c&i	Recycling and composting target	0.010	0.011	0.012	0.013	0.014	0.014	0.015	0.015	0.016	0.017	0.017	0.018	0.018	0.019	0.020	0.020	0.021	0.021	0.022	0.022
	Recovery target	0.004	0.004	0.004	0.004	0.004	0.004	0.005	0.005	0.006	0.006	0.006	0.006	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007
	Non-hazardous landfill	0.011	0.011	0.010	0.010	0.010	0.009	0.009	0.008	0.008	0.008	0.007	0.007	0.007	0.007	0.006	0.006	0.006	0.006	0.006	0.005
c&d	Recycling target	0.029	0.030	0.030	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.033	0.034	0.035	0.036	0.038	0.038	0.038	0.038	0.038	0.038
	Recovery target	0.022	0.022	0.021	0.021	0.021	0.021	0.021	0.022	0.022	0.023	0.022	0.021	0.020	0.019	0.018	0.018	0.018	0.018	0.019	0.019
	Inert landfill	0.012	0.011	0.011	0.011	0.011	0.010	0.010	0.010	0.009	0.009	0.009	0.008	0.008	0.008	0.008	0.007	0.007	0.007	0.007	0.006
hazardous	Hazardous waste	0.011	0.011	0.011	0.012	0.012	0.012	0.013	0.013	0.013	0.013	0.013	0.014	0.014	0.014	0.014	0.014	0.015	0.015	0.015	0.015

Note: If there is a LATS shortfall, denoted by a positive number, (ie insufficient allowance to landfill non-diverted waste) then the model assumes that this extra waste is recycled/composted and recovered at the same ratio as the regional targets for recycling/composting and recovery for that year.

EXISTING/PLANNED CAPACITY FOR RECYCLING, RECOVERY AND LANDFILLING AND TOTAL WASTE TONNAGES TO EACH DISPOSAL ROUTE (Million Tonnes)	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
MSW and C&I recovery																				
Total existing/planned MSW and C&I recovery capacity	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075
Surplus/deficit capacity	0.063	0.061	0.058	0.056	0.053	0.048	0.043	0.038	0.034	0.030	0.028	0.026	0.024	0.022	0.020	0.020	0.021	0.022	0.023	0.024
MSW and C&I recycling and composting																				
Total existing/planned MSW and C&I recycling and composting capacity (Baseline: 20% of transfer capacity delivers recycling)	0.220	0.220	0.220	0.220	0.220	0.220	0.220	0.220	0.220	0.220	0.220	0.220	0.220	0.220	0.220	0.220	0.220	0.220	0.220	0.220
Total existing/planned MSW and C&I recycling and composting capacity (Sensitivity: 5% of transfer capacity delivers recycling)	0.194	0.194	0.194	0.194	0.194	0.194	0.194	0.194	0.194	0.194	0.194	0.194	0.194	0.194	0.194	0.194	0.194	0.194	0.194	0.194
Surplus/deficit capacity (Baseline: 20% of transfer capacity delivers recycling)	0.167	0.163	0.158	0.153	0.146	0.140	0.134	0.129	0.126	0.122	0.119	0.116	0.112	0.109	0.105	0.101	0.098	0.094	0.090	0.086
Surplus/deficit capacity (Sensitivity: 5% of transfer capacity delivers recycling)	0.142	0.137	0.133	0.128	0.121	0.115	0.109	0.103	0.100	0.097	0.094	0.090	0.087	0.083	0.080	0.076	0.072	0.068	0.064	0.060
C&D recycling																				
Total existing/planned C&D recycling capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Surplus/deficit capacity	-0.029	-0.030	-0.030	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031	-0.033	-0.034	-0.035	-0.036	-0.038	-0.038	-0.038	-0.038	-0.038	-0.038
C&D recovery																				
REGIONAL total existing/planned C&D recovery capacity	1.794	1.710	1.627	1.544	1.460	1.439	1.418	1.398	1.377	1.356	1.325	1.293	1.262	1.231	1.199	1.220	1.241	1.262	1.283	1.304
Surplus/deficit capacity	1.772	1.689	1.605	1.522	1.439	1.418	1.397	1.376	1.354	1.333	1.303	1.273	1.242	1.212	1.182	1.202	1.223	1.244	1.264	1.285
Hazardous waste recycling																				
Total existing/planned hazardous waste recycling capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Surplus/deficit capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hazardous waste recovery																				
Total existing/planned hazardous waste recovery capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Surplus/deficit capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Non-hazardous landfill																				
Available non-hazardous landfill capacity (excluding residues from MSW and C&I recovery)	22.000	21.724	21.454	21.192	20.936	20.689	20.457	20.241	20.039	19.849	19.671	19.499	19.334	19.175	19.022	18.877	18.733	18.591	18.450	18.310
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'Incineration (non-specialist)'	22.000	21.722	21.450	21.185	20.926	20.677	20.441	20.219	20.012	19.816	19.631	19.452	19.280	19.113	18.953	18.799	18.647	18.496	18.347	18.200
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'MBT'	22.000	21.717	21.439	21.166	20.899	20.640	20.392	20.157	19.933	19.719	19.514	19.315	19.121	18.932	18.748	18.570	18.394	18.220	18.048	17.877
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'RDF'	22.000	21.722	21.451	21.186	20.928	20.679	20.444	20.224	20.017	19.823	19.639	19.462	19.290	19.125	18.967	18.814	18.664	18.515	18.368	18.222
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'treatment'	22.000	21.719	21.443	21.172	20.908	20.651	20.408	20.177	19.958	19.750	19.552	19.359	19.171	18.989	18.813	18.643	18.474	18.308	18.143	17.980
Inert landfill																				
Available inert landfill capacity	0.312	0.300	0.289	0.278	0.267	0.256	0.246	0.236	0.226	0.217	0.208	0.200	0.191	0.183	0.176	0.168	0.161	0.154	0.147	0.140
Available inert landfill capacity assuming all MSW and C&I recovery by 'Incineration (non-specialist)'	0.312	0.299	0.285	0.271	0.258	0.243	0.229	0.214	0.199	0.184	0.169	0.153	0.137	0.122	0.106	0.090	0.075	0.060	0.045	0.030
Hazardous landfill																				
Available hazardous landfill capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Note: The model does not contain data for the management of hazardous waste.

DATA_01: ARISINGS AND GROWTH RATES OF MSW, C&I AND HAZARDOUS WASTE (Million Tonnes)		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	Arisings of MSW in baseline year																					
	(1) Forecast regional level growth rate of MSW - per year (%)	3.0%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%
	(1) Forecast regional level growth rate of MSW - cumulative (%)	103%	106%	108%	111%	114%	117%	119%	121%	124%	126%	129%	131%	133%	135%	137%	139%	141%	143%	145%	147%	149%
	Total arisings of MSW using regional growth forecasts	0.128	0.132	0.135	0.138	0.142	0.145	0.148	0.151	0.154	0.157	0.160	0.163	0.165	0.168	0.170	0.173	0.175	0.178	0.181	0.183	0.186
	(1) Forecast sub-regional growth rate of MSW - per year (%)	2.6%	3.8%	4.4%	4.6%	4.4%	3.8%	3.3%	2.6%	2.6%	2.6%	2.1%	2.0%	2.0%	2.0%	2.1%	1.6%	1.5%	1.7%	1.6%	1.6%	1.6%
	(1) Forecast sub-regional level growth rate of MSW - cumulative (%)	103%	107%	111%	116%	121%	126%	130%	134%	137%	141%	143%	146%	149%	152%	156%	158%	160%	163%	166%	168%	171%
	Total arisings of MSW using sub-regional growth forecasts	0.128	0.133	0.139	0.145	0.151	0.157	0.162	0.167	0.171	0.175	0.179	0.183	0.186	0.190	0.194	0.197	0.200	0.203	0.207	0.210	0.213
c&i	Arisings of C&I in baseline year																					
	(1) Forecast regional level growth rate of C&I - per year (%)	3.3%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.0%	1.0%	1.0%	1.0%	1.0%
	(1) Forecast regional level growth rate of C&I - cumulative (%)	117%	120%	123%	126%	130%	133%	136%	138%	141%	144%	147%	149%	151%	153%	156%	158%	160%	161%	163%	164%	166%
	Total arisings of C&I using regional growth forecasts	0.024	0.025	0.026	0.026	0.027	0.027	0.028	0.029	0.029	0.030	0.030	0.031	0.031	0.032	0.032	0.033	0.033	0.033	0.034	0.034	0.034
	(1) Forecast sub-regional level growth rate of C&I - per year (%)	3.3%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.0%	1.0%	1.0%	1.0%	1.0%
	(1) Forecast sub-regional level growth rate of C&I - cumulative (%)	117%	120%	123%	126%	130%	133%	136%	138%	141%	144%	147%	149%	151%	153%	156%	158%	160%	161%	163%	164%	166%
	Total arisings of C&I using sub-regional growth forecasts	0.024	0.025	0.026	0.026	0.027	0.027	0.028	0.029	0.029	0.030	0.030	0.031	0.031	0.032	0.032	0.033	0.033	0.033	0.034	0.034	0.034
hazardous	Arisings of hazardous waste in baseline year																					
	(2) Forecast regional level growth rate of hazardous waste - per year (%)	3.3%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.0%	1.0%	1.0%	1.0%	1.0%
	Forecast regional level growth rate of hazardous waste - cumulative (%)	107%	109%	112%	115%	118%	121%	123%	126%	128%	131%	133%	135%	137%	139%	141%	144%	145%	146%	148%	149%	151%
	Total arisings of hazardous waste	0.011	0.011	0.011	0.011	0.012	0.012	0.012	0.013	0.013	0.013	0.013	0.013	0.014	0.014	0.014	0.014	0.014	0.015	0.015	0.015	0.015
	(2) Forecast sub-regional level growth rate of hazardous waste - per year (%)	3.3%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.0%	1.0%	1.0%	1.0%	1.0%
	Forecast sub regional level growth rate of hazardous waste - cumulative (%)	107%	109%	112%	115%	118%	121%	123%	126%	128%	131%	133%	135%	137%	139%	141%	144%	145%	146%	148%	149%	151%
	Total arisings of hazardous waste	0.011	0.011	0.011	0.011	0.012	0.012	0.012	0.013	0.013	0.013	0.013	0.013	0.014	0.014	0.014	0.014	0.014	0.015	0.015	0.015	0.015
c&d	Total managed C&D in baseline year																					
	(3) Forecast regional-level growth rate of managed C&D - per year (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Forecast regional-level growth rate of managed C&D - cumulative (%)	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
	(3) Total managed of C&D for the sub-region	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063

(1) Figures from SEERA updated waste capacity model by ERM in 2005.
(2) Baseline year of hazardous waste arisings is 2003 from EA Hazardous Waste Interrogator. www.environment-agency.gov.uk/apps/wastesurvey2/. ERM has assumed that growth in hazardous waste is equal to C&I waste.
(3) These data represent managed C&D waste in the sub-region, including all intra-regional and inter-regional movements. Growth is assumed to be zero from the orginal MEL study and updated modeted by ERM in 2005.
NOTE: C&D waste is not included in arisings because this was taken from survey data by Symonds 2001 which gave values for managed C&D waste.

Milton Keynes

Figure in blue represent data supplied by each sub-region for the new '2006 SEERA Capacity and Need Model'
Figures in orange represent managed waste that are used by the model to calculate results. These can be adjusted for different scenarios.

DATA_02: INTER REGIONAL MOVEMENTS OF MSW and C&I (Million Tonnes)		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw and c&i	Regional level imports of MSW and C&I waste into the SE region from London	1.76	1.716	1.672	1.628	1.584	1.54	1.454	1.368	1.282	1.196	1.11	1.064	1.018	0.972	0.926	0.88	0.86	0.84	0.82	0.8	0.78
	Proportion of regional MSW and C&I imports that go to the sub-region (%)	10.1%	10.1%	10.1%	10.1%	10.1%	10.1%	10.1%	10.1%	10.1%	10.1%	10.1%	10.1%	10.1%	10.1%	10.1%	10.1%	10.1%	10.1%	10.1%	10.1%	10.1%
	(1) Total imports of MSW and C&I from London into sub-region sent direct to landfill	0.178	0.173	0.169	0.164	0.160	0.156	0.147	0.138	0.129	0.121	0.112	0.107	0.103	0.098	0.094	0.089	0.087	0.085	0.083	0.081	0.079
msw	Proportion of total MSW and C&I imports that are MSW (%) - REGIONAL GROWTH FORECAST	84%	84%	84%	84%	84%	84%	84%	84%	84%	84%	84%	84%	84%	84%	84%	84%	84%	84%	84%	84%	84%
	Total imports of MSW into the sub-region from London - REGIONAL GROWTH FORECAST	0.149	0.146	0.142	0.138	0.135	0.131	0.123	0.116	0.109	0.102	0.094	0.090	0.086	0.083	0.079	0.075	0.073	0.071	0.070	0.068	0.067
	Proportion of total MSW and C&I imports that are MSW (%) - SUB-REGIONAL GROWTH FORECAST	84%	84%	84%	85%	85%	85%	85%	85%	85%	85%	85%	86%	86%	86%	86%	86%	86%	86%	86%	86%	86%
	Total imports of MSW into the sub-region from London - SUB-REGIONAL GROWTH FORECAST	0.149	0.146	0.143	0.139	0.136	0.132	0.125	0.118	0.111	0.103	0.096	0.092	0.088	0.084	0.080	0.076	0.075	0.073	0.071	0.070	0.068
c&i	Proportion of total MSW and C&I imports that are C&I (%) - REGIONAL GROWTH FORECAST	16%	16%	16%	16%	16%	16%	16%	16%	16%	16%	16%	16%	16%	16%	16%	16%	16%	16%	16%	16%	16%
	Total imports of C&I into the sub-region from London - REGIONAL GROWTH FORECAST	0.028	0.028	0.027	0.026	0.025	0.025	0.023	0.022	0.021	0.019	0.018	0.017	0.016	0.016	0.015	0.014	0.014	0.013	0.013	0.013	0.012
	Proportion of total MSW and C&I imports that are C&I (%) - SUB-REGIONAL GROWTH FORECAST	16%	16%	16%	15%	15%	15%	15%	15%	15%	15%	15%	14%	14%	14%	14%	14%	14%	14%	14%	14%	14%
	Total imports of C&I into the sub-region from London - SUB-REGIONAL GROWTH FORECAST	0.028	0.027	0.026	0.025	0.024	0.023	0.022	0.020	0.019	0.018	0.016	0.016	0.015	0.014	0.013	0.013	0.012	0.012	0.012	0.011	0.011

(1) Intra-regional and inter-regional movements have been excluded for MSW and C&I waste due to self-sufficiency requirements under PPS10, except for inter-regional movements from London into the sub-region. Apportionment from Policy W3 in the Plan – downloa
Note: Only a figure is available for total combined imports of MSW and C&I waste. ERM has assumed that imports of the seperate waste streams of MSW and C&I was split according to tonnage arisings of MSW and C&I in the sub-region.

DATA_03: MANAGED WASTE USED TO GENERATE RESULTS (Million Tonnes)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	0.128	0.132	0.135	0.138	0.142	0.145	0.148	0.151	0.154	0.157	0.160	0.163	0.165	0.168	0.170	0.173	0.175	0.178	0.181	0.183	0.186
msw - imports from london that are sent direct to non-hazardous landfill	0.149	0.146	0.142	0.138	0.135	0.131	0.123	0.116	0.109	0.102	0.094	0.090	0.086	0.083	0.079	0.075	0.073	0.071	0.070	0.068	0.067
c&i	0.024	0.025	0.026	0.026	0.027	0.027	0.028	0.029	0.029	0.030	0.030	0.031	0.031	0.032	0.032	0.033	0.033	0.033	0.034	0.034	0.034
c&I - imports from london that are sent direct to non-hazardous landfill	0.028	0.028	0.027	0.026	0.025	0.025	0.023	0.022	0.021	0.019	0.018	0.017	0.016	0.016	0.015	0.014	0.014	0.013	0.013	0.013	0.012
c&d	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063
hazardous	0.011	0.011	0.011	0.011	0.012	0.012	0.012	0.013	0.013	0.013	0.013	0.013	0.014	0.014	0.014	0.014	0.014	0.015	0.015	0.015	0.015

DATA_04: TARGETS (% or Million Tonnes)		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	(1) landfill (Mt)	0.068	0.066	0.062	0.058	0.052	0.045	0.040	0.035	0.030	0.029	0.027	0.026	0.025	0.023	0.022	0.021	0.021	0.021	0.021	0.021	0.021
	recovered (%)	5	6.4	7.8	9.2	10.6	12	14.4	16.8	19.2	21.6	24	24.8	25.6	26.4	27.2	28	27.2	26.4	25.6	24.8	24
	recycled and composted (%)	30	32.0	34.0	36.0	38.0	40	42.0	44.0	46.0	48.0	50	51.0	52.0	53.0	54.0	55	56.0	57.0	58.0	59.0	60
c&i	recovered (%)	14	14.2	14.4	14.6	14.8	15	16.0	17.0	18.0	19.0	20	20.2	20.4	20.6	20.8	21	20.6	20.2	19.8	19.4	19
	recycled and composted (%)	40	42.0	44.0	46.0	48.0	50	51.0	52.0	53.0	54.0	55	56.0	57.0	58.0	59.0	60	61.0	62.0	63.0	64.0	65
c&d	recovered (%)	36	35.4	34.8	34.2	33.6	33	33.6	34.2	34.8	35.4	36	34.4	32.8	31.2	29.6	28	28.4	28.8	29.2	29.6	30
	recycled (%)	45	46.0	47.0	48.0	49.0	50	50.0	50.0	50.0	50.0	50	52.0	54.0	56.0	58.0	60	60.0	60.0	60.0	60.0	60
hazardous	landfill (%)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	recovered (%)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	recycled (%)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

(1) ERM has assumed that the LATS target allowance remains constant at the 2020 value for the years beyond 2020

DATA_05: WASTE STREAM TONNAGES TO MEET TARGETS (Million Tonnes)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025

This first section of DATA_03 calculates if there is a LATS shortfall or suplus in each year. If there is a LATS shortfall (ie insufficient allowance to landfill non-diverted waste) then the model assumes that this extra waste is recycled/composted and r

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	Total MSW to be recovered and recycled/composted to meet target	0.045	0.051	0.056	0.063	0.069	0.076	0.084	0.092	0.101	0.109	0.119	0.123	0.128	0.133	0.138	0.143	0.146	0.149	0.151	0.154	0.156
	Total MSW not-diverted by targets	0.083	0.081	0.079	0.076	0.073	0.070	0.065	0.059	0.054	0.048	0.042	0.039	0.037	0.035	0.032	0.029	0.029	0.030	0.030	0.030	0.030
	Percentage of MSW that is biodegradable (% by weight)	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68
	Total BMW not-diverted by targets	0.057	0.055	0.053	0.052	0.050	0.047	0.044	0.040	0.036	0.033	0.028	0.027	0.025	0.024	0.022	0.020	0.020	0.020	0.020	0.020	0.020
	LATS shortfall (how much extra is landfilled above LATS target)	-0.012	-0.011	-0.009	-0.006	-0.002	0.003	0.004	0.006	0.007	0.004	0.001	0.001	0.000	0.000	0.000	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
	Ratio of 'recovered' to 'recycled/composted' for target (%)	14%	17%	19%	20%	22%	23%	26%	28%	29%	31%	32%	33%	33%	33%	33%	34%	33%	32%	31%	30%	29%
	Extra MSW 'recovery' needed due to LATS shortfall	0.000	0.000	0.000	0.000	0.000	*0.001*	*0.001*	*0.002*	*0.002*	*0.001*	*0.000*	*0.000*	*0.000*	*0.000*	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Extra MSW 'recycling/composting' needed due to LATS shortfall	0.000	0.000	0.000	0.000	0.000	*0.002*	*0.003*	*0.004*	*0.005*	*0.003*	*0.001*	*0.001*	*0.000*	*0.000*	0.000	0.000	0.000	0.000	0.000	0.000	0.000

The section below in DATA_03 shows the tonnages by waste to meet targets.

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	Recycling and composting target	0.039	0.042	0.046	0.050	0.054	0.060	0.065	0.071	0.076	0.078	0.081	0.084	0.086	0.089	0.092	0.095	0.098	0.101	0.105	0.108	0.112
	Recovery target	0.006	0.008	0.011	0.013	0.015	0.018	0.022	0.027	0.032	0.035	0.039	0.041	0.042	0.044	0.046	0.048	0.048	0.047	0.046	0.045	0.045
	Non-hazardous landfill	0.083	0.081	0.079	0.076	0.073	0.067	0.060	0.054	0.047	0.044	0.041	0.039	0.037	0.034	0.032	0.029	0.029	0.030	0.030	0.030	0.030
	CHECK COUNTER (should be zero)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
c&i	Recycling and composting target	0.010	0.010	0.011	0.012	0.013	0.014	0.014	0.015	0.015	0.016	0.017	0.017	0.018	0.018	0.019	0.020	0.020	0.021	0.021	0.022	0.022
	Recovery target	0.003	0.004	0.004	0.004	0.004	0.004	0.004	0.005	0.005	0.006	0.006	0.006	0.006	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007
	Non-hazardous landfill	0.011	0.011	0.011	0.010	0.010	0.010	0.009	0.009	0.008	0.008	0.008	0.007	0.007	0.007	0.007	0.006	0.006	0.006	0.006	0.006	0.005
	CHECK COUNTER (should be zero)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

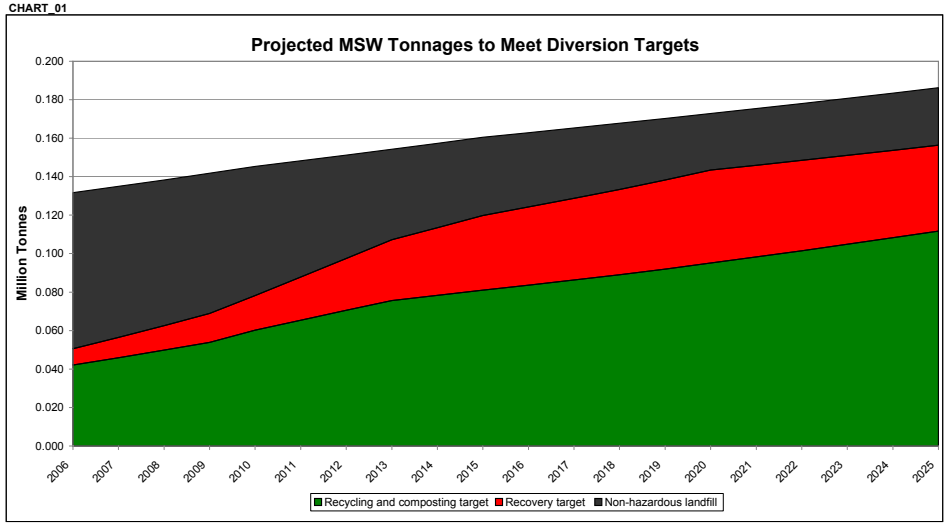
		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
c&d	Recycling target	0.028	0.029	0.030	0.030	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.033	0.034	0.035	0.036	0.038	0.038	0.038	0.038	0.038	0.038
	Recovery target	0.023	0.022	0.022	0.021	0.021	0.021	0.021	0.021	0.022	0.022	0.023	0.022	0.021	0.020	0.019	0.018	0.018	0.018	0.018	0.019	0.019
	Inert landfill	0.012	0.012	0.011	0.011	0.011	0.011	0.010	0.010	0.010	0.009	0.009	0.009	0.008	0.008	0.008	0.008	0.007	0.007	0.007	0.007	0.006
	CHECK COUNTER (should be zero)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
hazardous	Hazardous waste	0.011	0.011	0.011	0.011	0.012	0.012	0.012	0.013	0.013	0.013	0.013	0.013	0.014	0.014	0.014	0.014	0.014	0.015	0.015	0.015	0.015

DATA_06: TOTAL WASTE TONNAGES TO MEET TARGETS (Million Tonnes)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
MSW and C&I recycling and composting target	0.048	0.053	0.057	0.062	0.067	0.074	0.080	0.085	0.091	0.094	0.098	0.101	0.104	0.107	0.111	0.115	0.118	0.122	0.126	0.130	0.134
C&D recycling target	0.028	0.029	0.030	0.030	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.033	0.034	0.035	0.036	0.038	0.038	0.038	0.038	0.038	0.038
MSW and C&I recovery target	0.010	0.012	0.014	0.017	0.019	0.022	0.027	0.032	0.037	0.041	0.045	0.047	0.049	0.051	0.053	0.055	0.055	0.054	0.053	0.052	0.051
C&D recovery target	0.023	0.022	0.022	0.021	0.021	0.021	0.021	0.021	0.022	0.022	0.023	0.022	0.021	0.020	0.019	0.018	0.018	0.018	0.018	0.019	0.019
Non-hazardous landfill	0.095	0.092	0.089	0.086	0.083	0.077	0.070	0.063	0.055	0.052	0.048	0.046	0.044	0.041	0.039	0.036	0.036	0.035	0.035	0.035	0.035
Inert landfill	0.012	0.012	0.011	0.011	0.011	0.011	0.010	0.010	0.010	0.009	0.009	0.009	0.008	0.008	0.008	0.008	0.007	0.007	0.007	0.007	0.006
Hazardous waste	0.011	0.011	0.011	0.011	0.012	0.012	0.012	0.013	0.013	0.013	0.013	0.013	0.014	0.014	0.014	0.014	0.014	0.015	0.015	0.015	0.015

Milton Keynes

CHART_01



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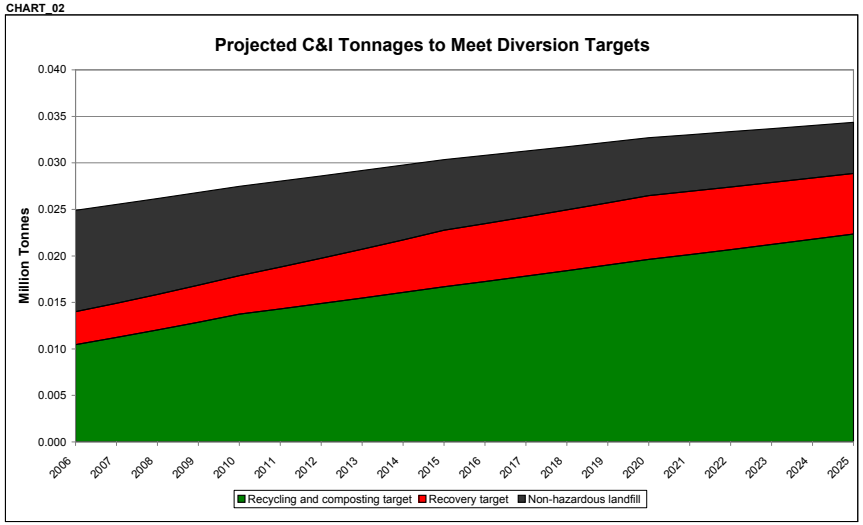

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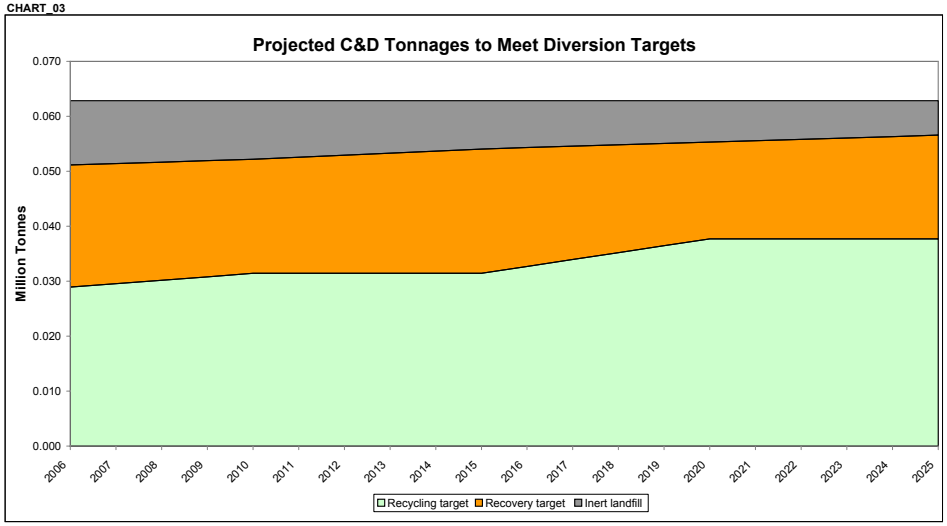

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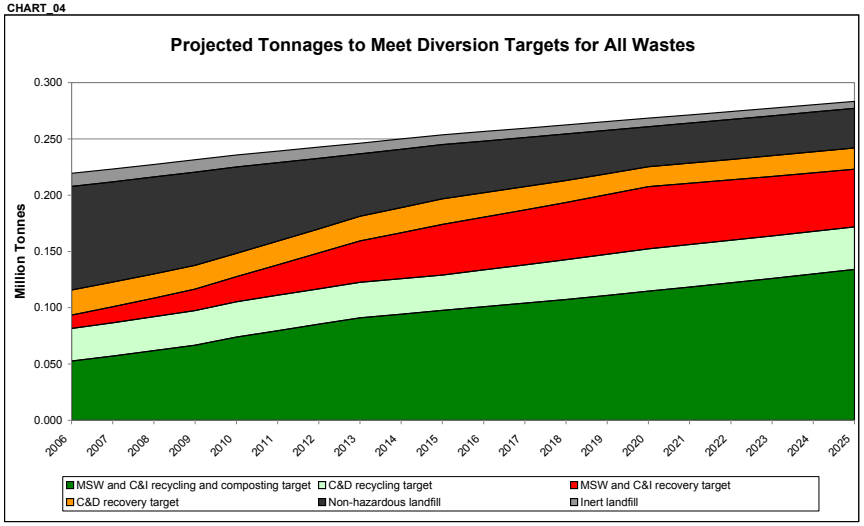

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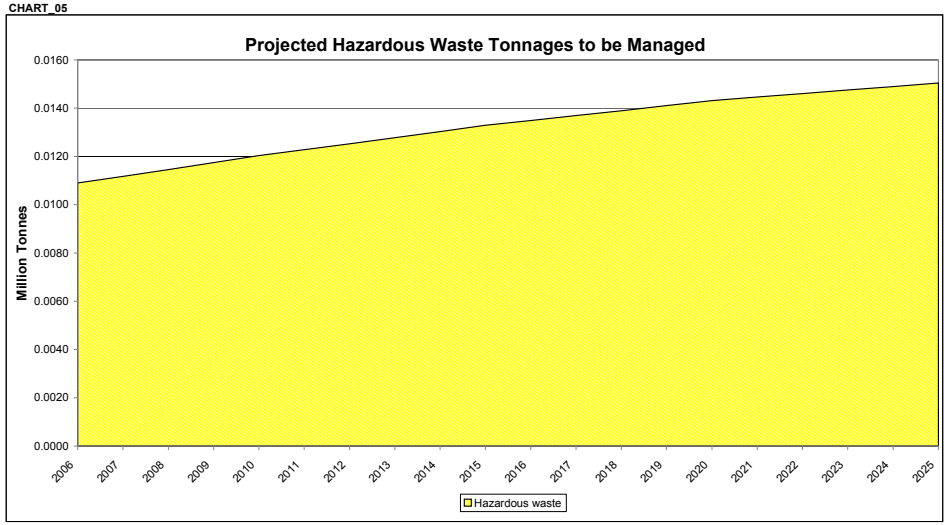
CHART_05



DATA_07: EXISTING/PLANNED CAPACITY FOR RECYCLING, RECOVERY AND LANDFILLING AND TOTAL WASTE TONNAGES TO EACH DISPOSAL ROUTE (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
MSW and C&I recovery																					
MSW and C&I incineration (non-specialist)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
MSW and C&I treatment	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075
Total existing/planned MSW and C&I recovery capacity	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075
Total MSW waste required to meet target	0.006	0.008	0.011	0.013	0.015	0.018	0.022	0.027	0.032	0.035	0.039	0.041	0.042	0.044	0.046	0.048	0.048	0.047	0.046	0.045	0.045
Total C&I waste required to meet target	0.003	0.004	0.004	0.004	0.004	0.004	0.004	0.005	0.005	0.006	0.006	0.006	0.006	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007
Surplus/deficit capacity	0.065	0.063	0.061	0.058	0.056	0.053	0.048	0.043	0.038	0.034	0.030	0.028	0.026	0.024	0.022	0.020	0.020	0.021	0.022	0.023	0.024
MSW and C&I recycling and composting																					
MSW and C&I recycling	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186	0.186
MSW and C&I transfer	0.169	0.169	0.169	0.169	0.169	0.169	0.169	0.169	0.169	0.169	0.169	0.169	0.169	0.169	0.169	0.169	0.169	0.169	0.169	0.169	0.169
Total existing/planned MSW and C&I composting capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
(1) Total existing/planned MSW and C&I recycling and composting capacity (Baseline: 20% of transfer capacity delivers recycling)	0.220	0.220	0.220	0.220	0.220	0.220	0.220	0.220	0.220	0.220	0.220	0.220	0.220	0.220	0.220	0.220	0.220	0.220	0.220	0.220	0.220
(2) Total existing/planned MSW and C&I recycling and composting capacity (Sensitivity: 5% of transfer capacity delivers recycling)	0.194	0.194	0.194	0.194	0.194	0.194	0.194	0.194	0.194	0.194	0.194	0.194	0.194	0.194	0.194	0.194	0.194	0.194	0.194	0.194	0.194
Total MSW waste required to meet recycling and composting target	0.039	0.042	0.046	0.050	0.054	0.060	0.065	0.071	0.076	0.078	0.081	0.084	0.086	0.089	0.092	0.095	0.098	0.101	0.105	0.108	0.112
Total C&I waste required to meet recycling and composting target	0.010	0.010	0.011	0.012	0.013	0.014	0.014	0.015	0.015	0.016	0.017	0.017	0.018	0.018	0.019	0.020	0.020	0.021	0.021	0.022	0.022
Surplus/deficit capacity (Baseline: 20% of transfer capacity delivers recycling)	0.172	0.167	0.163	0.158	0.153	0.146	0.140	0.134	0.129	0.126	0.122	0.119	0.116	0.112	0.109	0.105	0.101	0.098	0.094	0.090	0.086
Surplus/deficit capacity (Sensitivity: 5% of transfer capacity delivers recycling)	0.146	0.142	0.137	0.133	0.128	0.121	0.115	0.109	0.103	0.100	0.097	0.094	0.090	0.087	0.083	0.080	0.076	0.072	0.068	0.064	0.060
C&D recycling																					
Total existing/planned C&D recycling capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total waste required to meet C&D recycling target	0.028	0.029	0.030	0.030	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.033	0.034	0.035	0.036	0.038	0.038	0.038	0.038	0.038	0.038
Surplus/deficit capacity	-0.028	-0.029	-0.030	-0.030	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031	-0.033	-0.034	-0.035	-0.036	-0.038	-0.038	-0.038	-0.038	-0.038	-0.038
C&D recovery																					
(3) REGIONAL total existing/planned C&D recovery capacity	1.877	1.794	1.710	1.627	1.544	1.460	1.439	1.418	1.398	1.377	1.356	1.325	1.293	1.262	1.231	1.199	1.220	1.241	1.262	1.283	1.304
Sub-regional total waste required to meet C&D recovery target	0.023	0.022	0.022	0.021	0.021	0.021	0.021	0.021	0.022	0.022	0.023	0.022	0.021	0.020	0.019	0.018	0.018	0.018	0.018	0.019	0.019
Surplus/deficit capacity	1.855	1.772	1.689	1.605	1.522	1.439	1.418	1.397	1.376	1.354	1.333	1.303	1.273	1.242	1.212	1.182	1.202	1.223	1.244	1.264	1.285
Hazardous waste recycling																					
Total existing/planned hazardous waste recycling capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total hazardous waste to be recycled	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Surplus/deficit capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hazardous waste recovery																					
Total existing/planned hazardous waste recovery capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total hazardous waste to be recovered	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Surplus/deficit capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Non-hazardous landfill																					
Available non-hazardous landfill capacity (excluding residues from MSW and C&I recovery)		22.000	21.724	21.454	21.192	20.936	20.689	20.457	20.241	20.039	19.849	19.671	19.499	19.334	19.175	19.022	18.877	18.733	18.591	18.450	18.310
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'Incineration (non-specialist)'		22.000	21.722	21.450	21.185	20.926	20.677	20.441	20.219	20.012	19.816	19.631	19.452	19.280	19.113	18.953	18.799	18.647	18.496	18.347	18.200
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'MBT'		22.000	21.717	21.439	21.166	20.899	20.640	20.392	20.157	19.933	19.719	19.514	19.315	19.121	18.932	18.748	18.570	18.394	18.220	18.048	17.877
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'RDF'		22.000	21.722	21.451	21.186	20.928	20.679	20.444	20.224	20.017	19.823	19.639	19.462	19.290	19.125	18.967	18.814	18.664	18.515	18.368	18.222
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'treatment'		22.000	21.719	21.443	21.172	20.908	20.651	20.408	20.177	19.958	19.750	19.552	19.359	19.171	18.989	18.813	18.643	18.474	18.308	18.143	17.980
Total MSW and C&I waste sent direct to non-hazardous landfill		0.092	0.089	0.086	0.083	0.077	0.070	0.063	0.055	0.052	0.048	0.046	0.044	0.041	0.039	0.036	0.036	0.035	0.035	0.035	0.035
Inert landfill																					
Available inert landfill capacity		0.312	0.300	0.289	0.278	0.267	0.256	0.246	0.236	0.226	0.217	0.208	0.200	0.191	0.183	0.176	0.168	0.161	0.154	0.147	0.140
Available inert landfill capacity assuming all MSW and C&I recovery by 'Incineration (non-specialist)'		0.312	0.299	0.285	0.271	0.258	0.243	0.229	0.214	0.199	0.184	0.169	0.153	0.137	0.122	0.106	0.090	0.075	0.060	0.045	0.030
Total C&D waste sent direct to inert landfill	0.012	0.012	0.011	0.011	0.011	0.011	0.010	0.010	0.010	0.009	0.009	0.009	0.008	0.008	0.008	0.008	0.007	0.007	0.007	0.007	0.006
Hazardous landfill																					
Available hazardous landfill capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total hazardous waste sent direct to hazardous landfill	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Other																					
Metal/ELV facility	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055
Ignored	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Closed	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

(1) ERM has assumed that 20% of the total 'transfer' capacity will deliver recycling capacity
(2) ERM has assumed that 5% of the total 'transfer' capacity will deliver recycling capacity
(3) Data for C&D recovery for landfill cover for the SE Region were sourced from the original MEL model, which sourced the data from Symonds (2001)
Note:

Milton Keynes

DATA_08: RESIDUE RATES (%)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Recovery residues (% by weight)																					
MSW and C&I incineration (non-specialist) - bottom ash	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
MSW and C&I incineration (non-specialist) - fly ash	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
MSW and C&I to MBT	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59
MSW and C&I to RDF	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
MSW and C&I treatment - non-hazardous	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45
MSW and C&I treatment - hazardous	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Hazardous waste recovery	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Recycling residues (% by weight)																					
MSW and C&I recycling	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
MSW and C&I transfer	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
MSW and C&I composting	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
C&D recycling	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Hazardous waste recycling	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Other																					
Metal/ELV facility	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Ignored	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Closed	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Note: All residues are calculated on the amount of waste arising not on the maount of capacity available. This is complaince with the self-sufficiency requirements of PPS10.

DATA_09: TOTAL RESIDUE (Million Tonnes)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Recovery residues (of waste managed):																					
MSW and C&I incineration (non-specialist) - bottom ash	0.003	0.004	0.004	0.005	0.006	0.007	0.008	0.010	0.011	0.012	0.013	0.014	0.015	0.015	0.016	0.017	0.016	0.016	0.016	0.016	0.015
MSW and C&I incineration (non-specialist) - fly ash	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
MSW and C&I to MBT	0.006	0.007	0.008	0.010	0.011	0.013	0.016	0.019	0.022	0.024	0.027	0.028	0.029	0.030	0.031	0.033	0.032	0.032	0.031	0.031	0.030
MSW and C&I to RDF	0.001	0.001	0.002	0.002	0.002	0.003	0.003	0.004	0.004	0.005	0.005	0.006	0.006	0.006	0.006	0.007	0.007	0.006	0.006	0.006	0.006
MSW and C&I treatment - non-hazardous	0.004	0.005	0.006	0.007	0.009	0.010	0.012	0.014	0.017	0.018	0.020	0.021	0.022	0.023	0.024	0.025	0.025	0.024	0.024	0.023	0.023
MSW and C&I treatment - hazardous	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
Hazardous waste recovery	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Recycling residues (of waste managed):																					
MSW and C&I recycling and composting	0.007	0.008	0.009	0.009	0.010	0.011	0.012	0.013	0.014	0.014	0.015	0.015	0.016	0.016	0.017	0.017	0.018	0.018	0.019	0.020	0.020
C&D recycling	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
Hazardous waste recycling	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Note: All residues are calculated on the amount of waste arising not on the maount of capacity available. This is complaince with the self-sufficiency requirements of PPS10.

DATA_10: TOTAL MSW AND C&I RESIDUE FROM RECYCLING SENT TO NON-HAZARDOUS LANDFILL (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Total MSW and C&I recycling and composting residue sent to non-hazardous landfill	0.010	0.011	0.012	0.012	0.013	0.014	0.015	0.016	0.017	0.017	0.018	0.018	0.019	0.020	0.020	0.021	0.022	0.022	0.023	0.023	0.024

DATA_11: TOTAL MSW AND C&I RESIDUE FROM RECOVERY SENT TO NON-HAZARDOUS LANDFILL AND C&D RECYCLING (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
SCENARIO 1 - Assumes all recovery is by 'Non-specialist incineration' (based on total recovery capacity)																					
(1) Total MSW and C&I residue sent to non-hazardous landfill assuming all MSW and C&I recovery by 'Non-specialist incineration'	0.001	0.002	0.002	0.002	0.003	0.003	0.004	0.005	0.006	0.006	0.007	0.007	0.007	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
(1) Total MSW and C&I residue sent to inert landfill assuming all MSW and C&I recovery by 'Non-specialist incineration'	0.001	0.002	0.002	0.002	0.003	0.003	0.004	0.005	0.006	0.006	0.007	0.007	0.007	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
SCENARIO 2 - Assumes all recovery is by 'MBT' (based on total recovery capacity)																					
Total MSW and C&I residue sent to non-hazardous landfill	0.006	0.007	0.008	0.010	0.011	0.013	0.016	0.019	0.022	0.024	0.027	0.028	0.029	0.030	0.031	0.033	0.032	0.032	0.031	0.031	0.030
SCENARIO 3 - Assumes all recovery is by 'RDF' (based on total recovery capacity)																					
Total MSW and C&I residue sent to non-hazardous landfill	0.001	0.001	0.002	0.002	0.002	0.003	0.003	0.004	0.004	0.005	0.005	0.006	0.006	0.006	0.006	0.007	0.007	0.006	0.006	0.006	0.006
SCENARIO 4 - Assumes all recovery is by 'treatment' (based on total recovery capacity)																					
Total MSW and C&I residue sent to non-hazardous landfill	0.004	0.005	0.006	0.007	0.009	0.010	0.012	0.014	0.017	0.018	0.020	0.021	0.022	0.023	0.024	0.025	0.025	0.024	0.024	0.023	0.023

(1) It was assumed that 50% of residue from 'non-specialist incineration' is sent to non-hazardous landfill and 50% is sent to inert landfill. In the original model assumptions developed MEL 50% was assumed to go to C&D recycling, rather than to inert landfi

DATA_12: TONNAGES OF C&D REUSED ON NON-HAZARDOUS AND INERT LANDFILL (Million Tonnes)

(1) C&D reused on landfill sites	39	%
(1) C&D reused on exempt sites	61	%
(1) C&D reused on landfill sites sent to 'non-haz landfill'	30	%
(1) C&D reused on landfill sites sent to 'inert landfill'	70	%

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
c&d	Total C&D reused on non-hazardous landfill	0.003	0.003	0.003	0.003	0.002	0.002	0.002	0.003	0.003	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
	Total reused C&D on inert landfill	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005

(1) C&D reuse rates based on original model assumptions developed MEL
NOTE: C&D reuse on inert and non-hazardous landfill is not included within the charts because it has been assumed that data supplied by each sub-region has accounted for C&D reuse as an engineering material.

DATA_13: TOTAL MSW AND C&I RESIDUE FROM RECYCLING SENT TO HAZARDOUS LANDFILL (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Total MSW and C&I recycling and composting residue sent to hazardous landfill	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

DATA_14: TOTAL MSW AND C&I RESIDUE FROM RECOVERY SENT TO HAZARDOUS LANDFILL (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
SCENARIO 1 - Assumes all recovery is by 'Non-specialist incineration' (based on total recovery capacity)																					
Total MSW and C&I residue sent to hazardous landfill assuming all MSW and C&I recovery by 'Non-specialist incineration'	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
SCENARIO 2 - Assumes all recovery is by 'MBT' (based on total recovery capacity)																					
Total MSW and C&I residue sent to hazardous landfill	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SCENARIO 3 - Assumes all recovery is by 'RDF' (based on total recovery capacity)																					
Total MSW and C&I residue sent to hazardous landfill	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SCENARIO 4 - Assumes all recovery is by 'treatment' (based on total recovery capacity)																					
Total MSW and C&I residue sent to hazardous landfill	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003

NOTE: This element of the model is redundant. There is currently no hazardous waste capacity figures to generate a chart of managed waste versus available capacity.

DATA_15: TOTAL HAZARDOUS WASTE RESIDUE FROM RECOVERY AND RECYCLING SENT TO HAZARDOUS LANDFILL (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Total hazardous waste recycling and recovery residue sent to hazardous landfill	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Milton Keynes

CHART_06

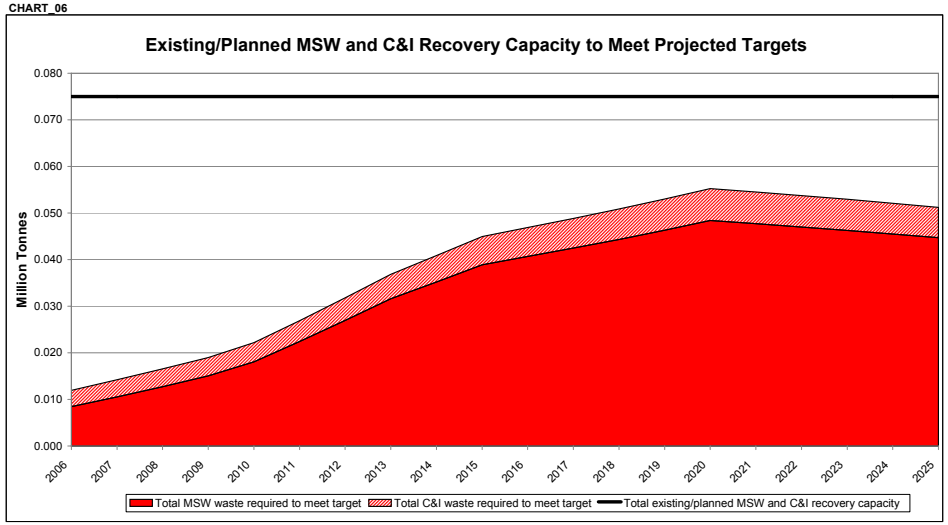


CHART_07

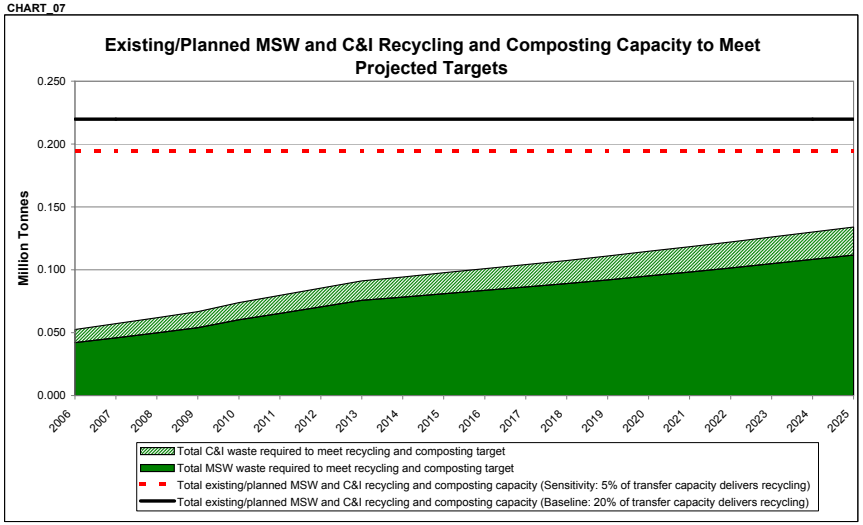
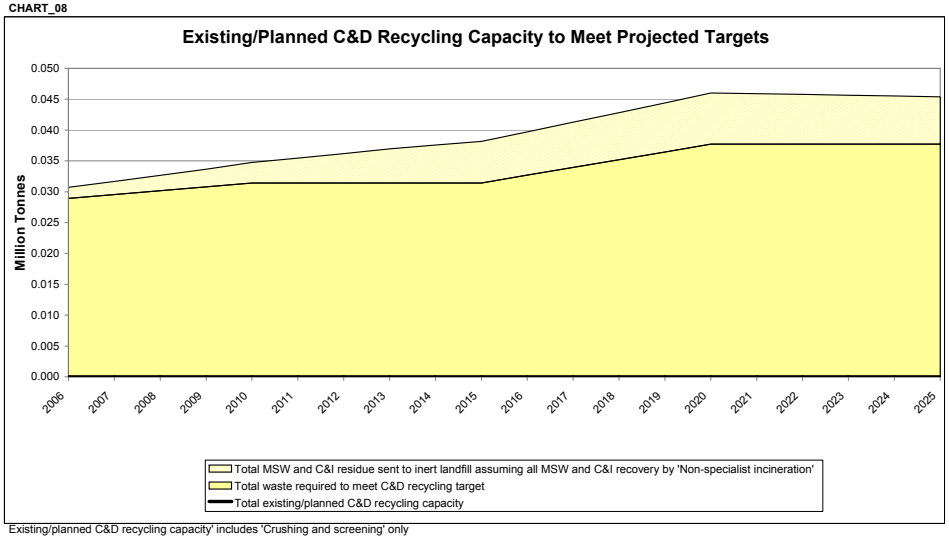


CHART_08



Existing/planned C&D recycling capacity' includes 'Crushing and screening' only
NOTE: This capacity does not represent the quantity of material that is recycled.
NOTE: Residue from MSW and C&I recovery is based on existing/planned capacity (not waste tonnage to meet recovery target)

Milton Keynes

CHART_09

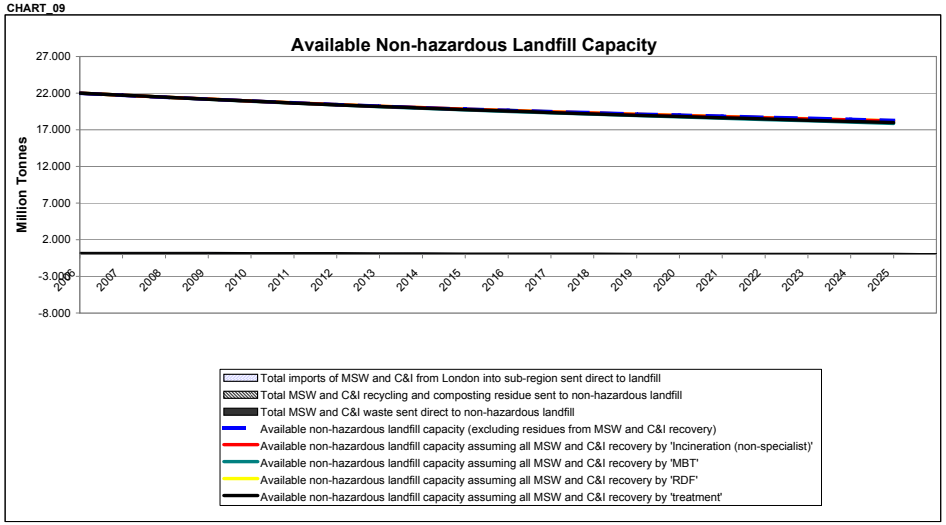
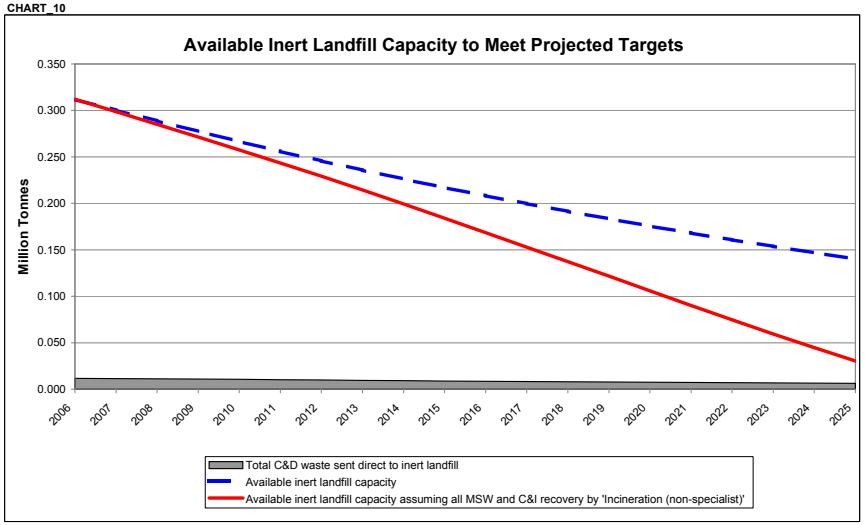


CHART_10



NOTE: The graph assumes that the baseline capacity for non-hazardous landfill has accounted for C&D reuse as a landfill engineering material.

Oxfordshire

SUMMARY DATA AND RESULTS FOR OXFORDSHIRE

MANAGED WASTE USED TO GENERATE RESULTS (Million Tonnes)	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	0.346	0.354	0.363	0.372	0.382	0.389	0.397	0.405	0.413	0.421	0.428	0.434	0.441	0.447	0.454	0.461	0.468	0.475	0.482	0.489
msw - imports from london that are sent direct to non-hazardous landfill	0.108	0.106	0.103	0.100	0.097	0.092	0.086	0.081	0.076	0.070	0.067	0.064	0.061	0.058	0.056	0.054	0.053	0.052	0.051	0.050
c&i	0.585	0.599	0.614	0.630	0.646	0.658	0.672	0.685	0.699	0.713	0.723	0.734	0.745	0.756	0.768	0.776	0.783	0.791	0.799	0.807
c&i - imports from london that are sent direct to non-hazardous landfill	0.183	0.179	0.174	0.169	0.165	0.155	0.146	0.137	0.128	0.119	0.114	0.109	0.104	0.099	0.094	0.092	0.089	0.087	0.085	0.083
c&d	0.755	0.755	0.755	0.755	0.755	0.755	0.755	0.755	0.755	0.755	0.755	0.755	0.755	0.755	0.755	0.755	0.755	0.755	0.755	0.755
hazardous	0.051	0.052	0.054	0.055	0.056	0.058	0.059	0.060	0.061	0.062	0.063	0.064	0.065	0.066	0.067	0.068	0.068	0.069	0.070	0.071

WASTE STREAM TONNAGES TO MEET TARGETS (Million Tonnes)		2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	LATS shortfall (how much extra is landfilled above LATS target)	-0.029	-0.024	-0.018	-0.009	*0.003*	*0.007*	*0.011*	*0.015*	*0.008*	*0.000*	0.000	-0.001	-0.002	-0.003	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004
	Recycling and composting target	0.111	0.120	0.131	0.141	0.155	0.169	0.183	0.197	0.204	0.211	0.218	0.226	0.234	0.241	0.250	0.258	0.267	0.275	0.284	0.293
	Recovery target	0.022	0.028	0.033	0.039	0.046	0.058	0.070	0.082	0.092	0.101	0.106	0.111	0.116	0.122	0.127	0.125	0.123	0.122	0.119	0.117
	Non-hazardous landfill	0.213	0.206	0.199	0.191	0.180	0.162	0.144	0.126	0.118	0.109	0.103	0.097	0.091	0.084	0.077	0.077	0.078	0.078	0.078	0.078
c&i	Recycling and composting target	0.246	0.264	0.283	0.302	0.323	0.336	0.349	0.363	0.377	0.392	0.405	0.419	0.432	0.446	0.461	0.473	0.486	0.498	0.511	0.525
	Recovery target	0.083	0.086	0.090	0.093	0.097	0.105	0.114	0.123	0.133	0.143	0.146	0.150	0.154	0.157	0.161	0.160	0.158	0.157	0.155	0.153
	Non-hazardous landfill	0.256	0.249	0.242	0.234	0.226	0.217	0.208	0.199	0.189	0.178	0.172	0.166	0.159	0.153	0.146	0.143	0.139	0.136	0.133	0.129
c&d	Recycling target	0.347	0.355	0.362	0.370	0.377	0.377	0.377	0.377	0.377	0.377	0.393	0.408	0.423	0.438	0.453	0.453	0.453	0.453	0.453	0.453
	Recovery target	0.267	0.263	0.258	0.254	0.249	0.254	0.258	0.263	0.267	0.272	0.260	0.248	0.236	0.223	0.211	0.214	0.217	0.220	0.223	0.226
	Inert landfill	0.140	0.137	0.134	0.131	0.128	0.124	0.119	0.115	0.110	0.106	0.103	0.100	0.097	0.094	0.091	0.088	0.085	0.082	0.079	0.075
hazardous	Hazardous waste	0.051	0.052	0.054	0.055	0.056	0.058	0.059	0.060	0.061	0.062	0.063	0.064	0.065	0.066	0.067	0.068	0.068	0.069	0.070	0.071

Note: If there is a LATS shortfall, denoted by a positive number, (ie insufficient allowance to landfill non-diverted waste) then the model assumes that this extra waste is recycled/composted and recovered at the same ratio as the regional targets for recycling/composting and recovery for that year.

EXISTING/PLANNED CAPACITY FOR RECYCLING, RECOVERY AND LANDFILLING AND TOTAL WASTE TONNAGES TO EACH DISPOSAL ROUTE (Million Tonnes)	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
MSW and C&I recovery																				
Total existing/planned MSW and C&I recovery capacity	0.150	0.150	0.150	0.150	0.150	0.150	0.150	0.150	0.150	0.150	0.150	0.150	0.150	0.150	0.150	0.150	0.150	0.150	0.150	0.150
Surplus/deficit capacity	0.045	0.036	0.027	0.017	0.007	-0.013	-0.034	-0.055	-0.074	-0.094	-0.102	-0.111	-0.120	-0.129	-0.138	-0.135	-0.132	-0.128	-0.124	-0.121
MSW and C&I recycling and composting																				
Total existing/planned MSW and C&I recycling and composting capacity (Baseline: 20% of transfer capacity delivers recycling)	0.814	0.814	0.814	0.814	0.814	0.814	0.814	0.814	0.814	0.814	0.814	0.814	0.814	0.814	0.814	0.814	0.814	0.814	0.814	0.814
Total existing/planned MSW and C&I recycling and composting capacity (Sensitivity: 5% of transfer capacity delivers recycling)	0.776	0.776	0.776	0.776	0.776	0.776	0.776	0.776	0.776	0.776	0.776	0.776	0.776	0.776	0.776	0.776	0.776	0.776	0.776	0.776
Surplus/deficit capacity (Baseline: 20% of transfer capacity delivers recycling)	0.458	0.430	0.401	0.371	0.337	0.310	0.282	0.255	0.233	0.212	0.191	0.170	0.149	0.127	0.104	0.083	0.062	0.041	0.019	-0.003
Surplus/deficit capacity (Sensitivity: 5% of transfer capacity delivers recycling)	0.419	0.391	0.362	0.332	0.298	0.271	0.244	0.216	0.195	0.173	0.152	0.131	0.110	0.088	0.065	0.045	0.024	0.002	-0.020	-0.042
C&D recycling																				
Total existing/planned C&D recycling capacity	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107
Surplus/deficit capacity	-0.240	-0.247	-0.255	-0.262	-0.270	-0.270	-0.270	-0.270	-0.270	-0.270	-0.285	-0.300	-0.315	-0.330	-0.345	-0.345	-0.345	-0.345	-0.345	-0.345
C&D recovery																				
REGIONAL total existing/planned C&D recovery capacity	1.794	1.710	1.627	1.544	1.460	1.439	1.418	1.398	1.377	1.356	1.325	1.293	1.262	1.231	1.199	1.220	1.241	1.262	1.283	1.304
Surplus/deficit capacity	1.527	1.448	1.369	1.290	1.211	1.186	1.160	1.135	1.109	1.084	1.065	1.046	1.026	1.007	0.988	1.006	1.024	1.041	1.059	1.077
Hazardous waste recycling																				
Total existing/planned hazardous waste recycling capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Surplus/deficit capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hazardous waste recovery																				
Total existing/planned hazardous waste recovery capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Surplus/deficit capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Non-hazardous landfill																				
Available non-hazardous landfill capacity (excluding residues from MSW and C&I recovery)	11.110	10.261	9.428	8.612	7.813	7.036	6.296	5.593	4.929	4.294	3.690	3.100	2.527	1.969	1.428	0.903	0.382	-0.136	-0.651	-1.162
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'Incineration (non-specialist)'	11.096	10.231	9.381	8.546	7.728	6.929	6.164	5.434	4.738	4.070	3.429	2.802	2.189	1.591	1.008	0.440	-0.124	-0.684	-1.240	-1.793
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'MBT'	11.053	10.142	9.242	8.353	7.476	6.614	5.778	4.966	4.181	3.414	2.665	1.927	1.200	0.483	-0.223	-0.918	-1.607	-2.291	-2.970	-3.643
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'RDF'	11.099	10.237	9.390	8.559	7.745	6.950	6.190	5.466	4.776	4.115	3.481	2.862	2.257	1.667	1.092	0.533	-0.023	-0.574	-1.122	-1.667
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'treatment'	11.067	10.170	9.286	8.414	7.556	6.714	5.900	5.115	4.358	3.622	2.908	2.206	1.515	0.836	0.169	-0.485	-1.135	-1.780	-2.420	-3.054
Inert landfill																				
Available inert landfill capacity	4.132	3.992	3.854	3.720	3.589	3.460	3.336	3.217	3.102	2.992	2.886	2.784	2.684	2.587	2.494	2.403	2.316	2.231	2.150	2.071
Available inert landfill capacity assuming all MSW and C&I recovery by 'Incineration (non-specialist)'	4.118	3.961	3.807	3.654	3.503	3.353	3.205	3.058	2.912	2.768	2.626	2.486	2.347	2.210	2.074	1.940	1.810	1.683	1.560	1.440
Hazardous landfill																				
Available hazardous landfill capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Note: The model does not contain data for the management of hazardous waste.

DATA_01: ARISINGS AND GROWTH RATES OF MSW, C&I AND HAZARDOUS WASTE (Million Tonnes)		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	Arisings of MSW in baseline year																					
	(1) Forecast regional level growth rate of MSW - per year (%)	3.0%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%
	(1) Forecast regional level growth rate of MSW - cumulative (%)	109%	112%	115%	118%	121%	124%	126%	129%	131%	134%	136%	139%	141%	143%	145%	147%	149%	151%	154%	156%	158%
	Total arisings of MSW using regional growth forecasts	0.337	0.346	0.354	0.363	0.372	0.382	0.389	0.397	0.405	0.413	0.421	0.428	0.434	0.441	0.447	0.454	0.461	0.468	0.475	0.482	0.489
	(1) Forecast sub-regional growth rate of MSW - per year (%)	3.0%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%
	(1) Forecast sub-regional level growth rate of MSW - cumulative (%)	109%	112%	115%	118%	121%	124%	126%	129%	131%	134%	136%	139%	141%	143%	145%	147%	149%	151%	154%	156%	158%
	Total arisings of MSW using sub-regional growth forecasts	0.337	0.346	0.354	0.363	0.372	0.382	0.389	0.397	0.405	0.413	0.421	0.428	0.434	0.441	0.447	0.454	0.461	0.468	0.475	0.482	0.489
c&i	Arisings of C&I in baseline year																					
	(1) Forecast regional level growth rate of C&I - per year (%)	3.3%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.0%	1.0%	1.0%	1.0%	1.0%
	(1) Forecast regional level growth rate of C&I - cumulative (%)	117%	120%	123%	126%	130%	133%	136%	138%	141%	144%	147%	149%	151%	153%	156%	158%	160%	161%	163%	164%	166%
	Total arisings of C&I using regional growth forecasts	0.571	0.585	0.599	0.614	0.630	0.646	0.658	0.672	0.685	0.699	0.713	0.723	0.734	0.745	0.756	0.768	0.776	0.783	0.791	0.799	0.807
	(1) Forecast sub-regional level growth rate of C&I - per year (%)	3.3%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.0%	1.0%	1.0%	1.0%	1.0%
	(1) Forecast sub-regional level growth rate of C&I - cumulative (%)	117%	120%	123%	126%	130%	133%	136%	138%	141%	144%	147%	149%	151%	153%	156%	158%	160%	161%	163%	164%	166%
	Total arisings of C&I using sub-regional growth forecasts	0.571	0.585	0.599	0.614	0.630	0.646	0.658	0.672	0.685	0.699	0.713	0.723	0.734	0.745	0.756	0.768	0.776	0.783	0.791	0.799	0.807
hazardous	Arisings of hazardous waste in baseline year																					
	(2) Forecast regional level growth rate of hazardous waste - per year (%)	3.3%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.0%	1.0%	1.0%	1.0%	1.0%
	Forecast regional level growth rate of hazardous waste - cumulative (%)	107%	109%	112%	115%	118%	121%	123%	126%	128%	131%	133%	135%	137%	139%	141%	144%	145%	146%	148%	149%	151%
	Total arisings of hazardous waste	0.050	0.051	0.052	0.054	0.055	0.056	0.058	0.059	0.060	0.061	0.062	0.063	0.064	0.065	0.066	0.067	0.068	0.068	0.069	0.070	0.071
	(2) Forecast sub-regional level growth rate of hazardous waste - per year (%)	3.3%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.0%	1.0%	1.0%	1.0%	1.0%
	Forecast sub regional level growth rate of hazardous waste - cumulative (%)	107%	109%	112%	115%	118%	121%	123%	126%	128%	131%	133%	135%	137%	139%	141%	144%	145%	146%	148%	149%	151%
	Total arisings of hazardous waste	0.050	0.051	0.052	0.054	0.055	0.056	0.058	0.059	0.060	0.061	0.062	0.063	0.064	0.065	0.066	0.067	0.068	0.068	0.069	0.070	0.071
c&d	Total managed C&D in baseline year																					
	(3) Forecast regional-level growth rate of managed C&D - per year (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Forecast regional-level growth rate of managed C&D - cumulative (%)	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
	(3) Total managed of C&D for the sub-region	0.755	0.755	0.755	0.755	0.755	0.755	0.755	0.755	0.755	0.755	0.755	0.755	0.755	0.755	0.755	0.755	0.755	0.755	0.755	0.755	0.755

(1) Figures from SEERA updated waste capacity model by ERM in 2005.
(2) Baseline year of hazardous waste arisings is 2003 from EA Hazardous Waste Interrogator. www.environment-agency.gov.uk/apps/wastesurvey2/. ERM has assumed that growth in hazardous waste is equal to C&I waste.
(3) These data represent managed C&D waste in the sub-region, including all intra-regional and inter-regional movements. Growth is assumed to be zero from the orginal MEL study and updated modeted by ERM in 2005.
NOTE: C&D waste is not included in arisings because this was taken from survey data by Symonds 2001 which gave values for managed C&D waste.

Oxfordshire

Figure in blue represent data supplied by each sub-region for the new '2006 SEERA Capacity and Need Model'
Figures in orange represent managed waste that are used by the model to calculate results. These can be adjusted for different scenarios.

DATA_02: INTER REGIONAL MOVEMENTS OF MSW and C&I (Million Tonnes)		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw and c&i	Regional level imports of MSW and C&I waste into the SE region from London	1.76	1.716	1.672	1.628	1.584	1.54	1.454	1.368	1.282	1.196	1.11	1.064	1.018	0.972	0.926	0.88	0.86	0.84	0.82	0.8	0.78
	Proportion of regional MSW and C&I imports that go to the sub-region (%)	17.0%	17.0%	17.0%	17.0%	17.0%	17.0%	17.0%	17.0%	17.0%	17.0%	17.0%	17.0%	17.0%	17.0%	17.0%	17.0%	17.0%	17.0%	17.0%	17.0%	17.0%
	(1) Total imports of MSW and C&I from London into sub-region sent direct to landfill	0.299	0.292	0.284	0.277	0.269	0.262	0.247	0.233	0.218	0.203	0.189	0.181	0.173	0.165	0.157	0.150	0.146	0.143	0.139	0.136	0.133
msw	Proportion of total MSW and C&I imports that are MSW (%) - REGIONAL GROWTH FORECAST	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	38%	38%
	Total imports of MSW into the sub-region from London - REGIONAL GROWTH FORECAST	0.111	0.108	0.106	0.103	0.100	0.097	0.092	0.086	0.081	0.076	0.070	0.067	0.064	0.061	0.058	0.056	0.054	0.053	0.052	0.051	0.050
	Proportion of total MSW and C&I imports that are MSW (%) - SUB-REGIONAL GROWTH FORECAST	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	38%	38%
	Total imports of MSW into the sub-region from London - SUB-REGIONAL GROWTH FORECAST	0.111	0.108	0.106	0.103	0.100	0.097	0.092	0.086	0.081	0.076	0.070	0.067	0.064	0.061	0.058	0.056	0.054	0.053	0.052	0.051	0.050
c&i	Proportion of total MSW and C&I imports that are C&I (%) - REGIONAL GROWTH FORECAST	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	62%	62%
	Total imports of C&I into the sub-region from London - REGIONAL GROWTH FORECAST	0.188	0.183	0.179	0.174	0.169	0.165	0.155	0.146	0.137	0.128	0.119	0.114	0.109	0.104	0.099	0.094	0.092	0.089	0.087	0.085	0.083
	Proportion of total MSW and C&I imports that are C&I (%) - SUB-REGIONAL GROWTH FORECAST	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	62%	62%
	Total imports of C&I into the sub-region from London - SUB-REGIONAL GROWTH FORECAST	0.188	0.183	0.179	0.174	0.169	0.165	0.155	0.146	0.137	0.128	0.119	0.114	0.109	0.104	0.099	0.094	0.092	0.089	0.087	0.085	0.083

(1) Intra-regional and inter-regional movements have been excluded for MSW and C&I waste due to self-sufficiency requirements under PPS10, except for inter-regional movements from London into the sub-region. Apportionment from Policy W3 in the Plan – downloa
Note: Only a figure is available for total combined imports of MSW and C&I waste. ERM has assumed that imports of the seperate waste streams of MSW and C&I was split according to tonnage arisings of MSW and C&I in the sub-region.

DATA_03: MANAGED WASTE USED TO GENERATE RESULTS (Million Tonnes)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	0.337	0.346	0.354	0.363	0.372	0.382	0.389	0.397	0.405	0.413	0.421	0.428	0.434	0.441	0.447	0.454	0.461	0.468	0.475	0.482	0.489
msw - imports from london that are sent direct to non-hazardous landfill	0.111	0.108	0.106	0.103	0.100	0.097	0.092	0.086	0.081	0.076	0.070	0.067	0.064	0.061	0.058	0.056	0.054	0.053	0.052	0.051	0.050
c&i	0.571	0.585	0.599	0.614	0.630	0.646	0.658	0.672	0.685	0.699	0.713	0.723	0.734	0.745	0.756	0.768	0.776	0.783	0.791	0.799	0.807
c&I - imports from london that are sent direct to non-hazardous landfill	0.188	0.183	0.179	0.174	0.169	0.165	0.155	0.146	0.137	0.128	0.119	0.114	0.109	0.104	0.099	0.094	0.092	0.089	0.087	0.085	0.083
c&d	0.755	0.755	0.755	0.755	0.755	0.755	0.755	0.755	0.755	0.755	0.755	0.755	0.755	0.755	0.755	0.755	0.755	0.755	0.755	0.755	0.755
hazardous	0.050	0.051	0.052	0.054	0.055	0.056	0.058	0.059	0.060	0.061	0.062	0.063	0.064	0.065	0.066	0.067	0.068	0.068	0.069	0.070	0.071

DATA_04: TARGETS (% or Million Tonnes)		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	(1) landfill (Mt)	0.179	0.173	0.165	0.153	0.139	0.122	0.108	0.095	0.081	0.078	0.074	0.071	0.067	0.064	0.060	0.057	0.057	0.057	0.057	0.057	0.057
	recovered (%)	5	6.4	7.8	9.2	10.6	12	14.4	16.8	19.2	21.6	24	24.8	25.6	26.4	27.2	28	27.2	26.4	25.6	24.8	24
	recycled and composted (%)	30	32.0	34.0	36.0	38.0	40	42.0	44.0	46.0	48.0	50	51.0	52.0	53.0	54.0	55	56.0	57.0	58.0	59.0	60
c&i	recovered (%)	14	14.2	14.4	14.6	14.8	15	16.0	17.0	18.0	19.0	20	20.2	20.4	20.6	20.8	21	20.6	20.2	19.8	19.4	19
	recycled and composted (%)	40	42.0	44.0	46.0	48.0	50	51.0	52.0	53.0	54.0	55	56.0	57.0	58.0	59.0	60	61.0	62.0	63.0	64.0	65
c&d	recovered (%)	36	35.4	34.8	34.2	33.6	33	33.6	34.2	34.8	35.4	36	34.4	32.8	31.2	29.6	28	28.4	28.8	29.2	29.6	30
	recycled (%)	45	46.0	47.0	48.0	49.0	50	50.0	50.0	50.0	50.0	50	52.0	54.0	56.0	58.0	60	60.0	60.0	60.0	60.0	60
hazardous	landfill (%)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	recovered (%)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	recycled (%)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

(1) ERM has assumed that the LATS target allowance remains constant at the 2020 value for the years beyond 2020

DATA_05: WASTE STREAM TONNAGES TO MEET TARGETS (Million Tonnes)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025

This first section of DATA_03 calculates if there is a LATS shortfall or suplus in each year. If there is a LATS shortfall (ie insufficient allowance to landfill non-diverted waste) then the model assumes that this extra waste is recycled/composted and r

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	Total MSW to be recovered and recycled/composted to meet target	0.118	0.133	0.148	0.164	0.181	0.198	0.220	0.241	0.264	0.288	0.312	0.324	0.337	0.350	0.363	0.377	0.383	0.390	0.397	0.404	0.411
	Total MSW not-diverted by targets	0.219	0.213	0.206	0.199	0.191	0.183	0.170	0.156	0.141	0.126	0.110	0.103	0.097	0.091	0.084	0.077	0.077	0.078	0.078	0.078	0.078
	Percentage of MSW that is biodegradable (% by weight)	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68
	Total BMW not-diverted by targets	0.149	0.145	0.140	0.135	0.130	0.125	0.115	0.106	0.096	0.085	0.074	0.070	0.066	0.062	0.057	0.052	0.053	0.053	0.053	0.053	0.053
	LATS shortfall (how much extra is landfilled above LATS target)	-0.030	-0.029	-0.024	-0.018	-0.009	0.003	0.007	0.011	0.015	0.008	0.000	0.000	-0.001	-0.002	-0.003	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004
	Ratio of 'recovered' to 'recycled/composted' for target (%)	14%	17%	19%	20%	22%	23%	26%	28%	29%	31%	32%	33%	33%	33%	33%	34%	33%	32%	31%	30%	29%
	Extra MSW 'recovery' needed due to LATS shortfall	0.000	0.000	0.000	0.000	0.000	*0.001*	*0.002*	*0.003*	*0.004*	*0.002*	*0.000*	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Extra MSW 'recycling/composting' needed due to LATS shortfall	0.000	0.000	0.000	0.000	0.000	*0.002*	*0.005*	*0.008*	*0.010*	*0.005*	*0.000*	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

The section below in DATA_03 shows the tonnages by waste to meet targets.

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	Recycling and composting target	0.101	0.111	0.120	0.131	0.141	0.155	0.169	0.183	0.197	0.204	0.211	0.218	0.226	0.234	0.241	0.250	0.258	0.267	0.275	0.284	0.293
	Recovery target	0.017	0.022	0.028	0.033	0.039	0.046	0.058	0.070	0.082	0.092	0.101	0.106	0.111	0.116	0.122	0.127	0.125	0.123	0.122	0.119	0.117
	Non-hazardous landfill	0.219	0.213	0.206	0.199	0.191	0.180	0.162	0.144	0.126	0.118	0.109	0.103	0.097	0.091	0.084	0.077	0.077	0.078	0.078	0.078	0.078
	CHECK COUNTER (should be zero)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
c&i	Recycling and composting target	0.228	0.246	0.264	0.283	0.302	0.323	0.336	0.349	0.363	0.377	0.392	0.405	0.419	0.432	0.446	0.461	0.473	0.486	0.498	0.511	0.525
	Recovery target	0.080	0.083	0.086	0.090	0.093	0.097	0.105	0.114	0.123	0.133	0.143	0.146	0.150	0.154	0.157	0.161	0.160	0.158	0.157	0.155	0.153
	Non-hazardous landfill	0.262	0.256	0.249	0.242	0.234	0.226	0.217	0.208	0.199	0.189	0.178	0.172	0.166	0.159	0.153	0.146	0.143	0.139	0.136	0.133	0.129
	CHECK COUNTER (should be zero)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
c&d	Recycling target	0.340	0.347	0.355	0.362	0.370	0.377	0.377	0.377	0.377	0.377	0.377	0.393	0.408	0.423	0.438	0.453	0.453	0.453	0.453	0.453	0.453
	Recovery target	0.272	0.267	0.263	0.258	0.254	0.249	0.254	0.258	0.263	0.267	0.272	0.260	0.248	0.236	0.223	0.211	0.214	0.217	0.220	0.223	0.226
	Inert landfill	0.143	0.140	0.137	0.134	0.131	0.128	0.124	0.119	0.115	0.110	0.106	0.103	0.100	0.097	0.094	0.091	0.088	0.085	0.082	0.079	0.075
	CHECK COUNTER (should be zero)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
hazardous	Hazardous waste	0.050	0.051	0.052	0.054	0.055	0.056	0.058	0.059	0.060	0.061	0.062	0.063	0.064	0.065	0.066	0.067	0.068	0.068	0.069	0.070	0.071

DATA_06: TOTAL WASTE TONNAGES TO MEET TARGETS (Million Tonnes)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
MSW and C&I recycling and composting target	0.329	0.356	0.384	0.413	0.444	0.478	0.505	0.532	0.560	0.581	0.603	0.623	0.644	0.666	0.688	0.710	0.731	0.752	0.774	0.796	0.818
C&D recycling target	0.340	0.347	0.355	0.362	0.370	0.377	0.377	0.377	0.377	0.377	0.377	0.393	0.408	0.423	0.438	0.453	0.453	0.453	0.453	0.453	0.453
MSW and C&I recovery target	0.097	0.105	0.114	0.123	0.133	0.143	0.163	0.184	0.205	0.224	0.244	0.252	0.261	0.270	0.279	0.288	0.285	0.282	0.278	0.274	0.271
C&D recovery target	0.272	0.267	0.263	0.258	0.254	0.249	0.254	0.258	0.263	0.267	0.272	0.260	0.248	0.236	0.223	0.211	0.214	0.217	0.220	0.223	0.226
Non-hazardous landfill	0.482	0.469	0.456	0.441	0.426	0.406	0.380	0.353	0.325	0.306	0.287	0.276	0.263	0.250	0.237	0.223	0.220	0.217	0.214	0.211	0.207
Inert landfill	0.143	0.140	0.137	0.134	0.131	0.128	0.124	0.119	0.115	0.110	0.106	0.103	0.100	0.097	0.094	0.091	0.088	0.085	0.082	0.079	0.075
Hazardous waste	0.050	0.051	0.052	0.054	0.055	0.056	0.058	0.059	0.060	0.061	0.062	0.063	0.064	0.065	0.066	0.067	0.068	0.068	0.069	0.070	0.071

Oxfordshire

CHART_01

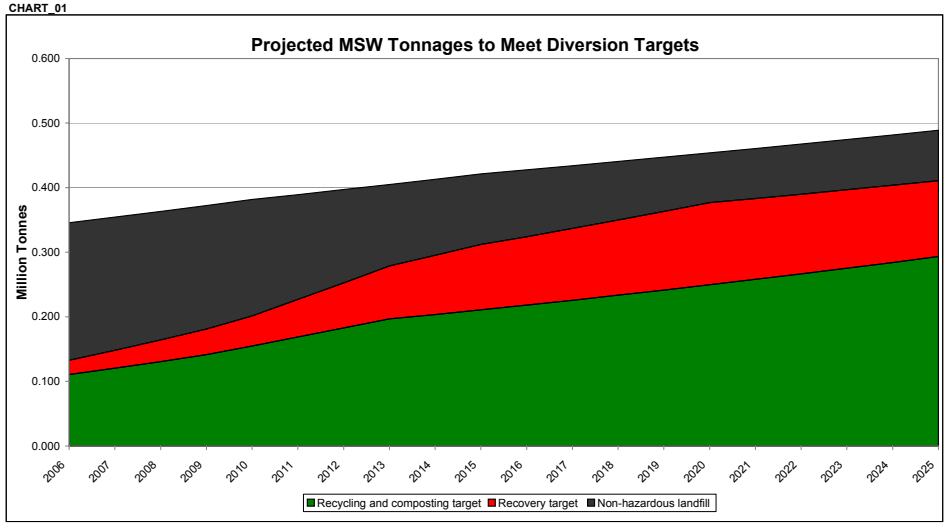
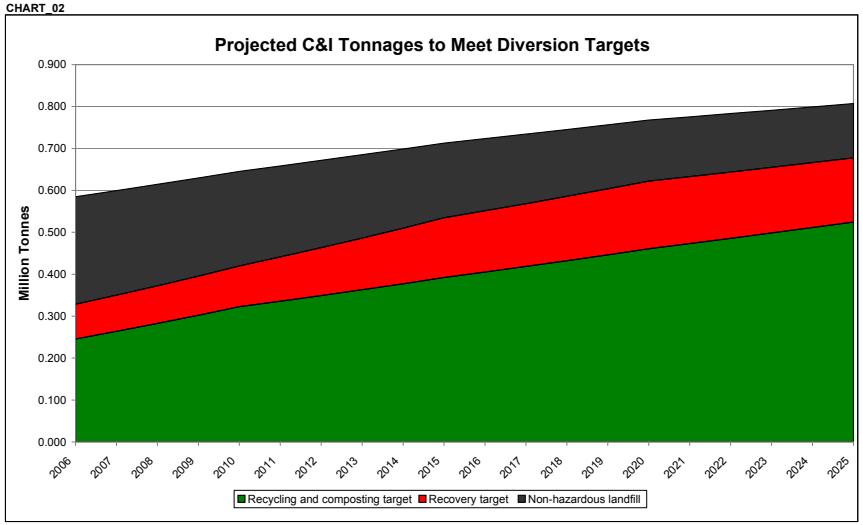


CHART_02



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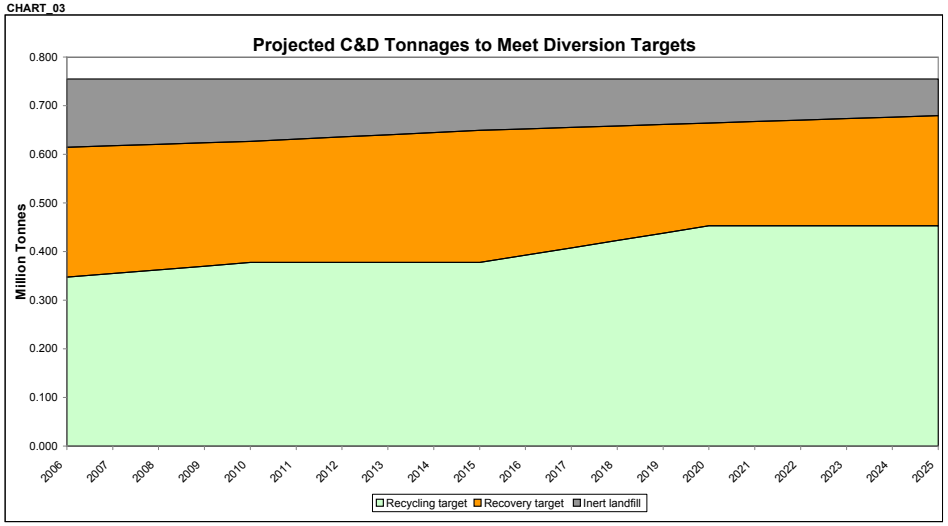

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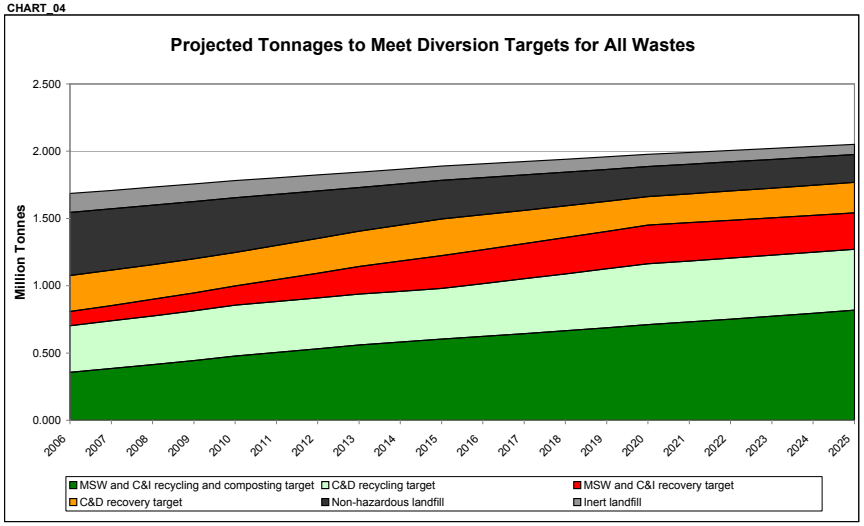
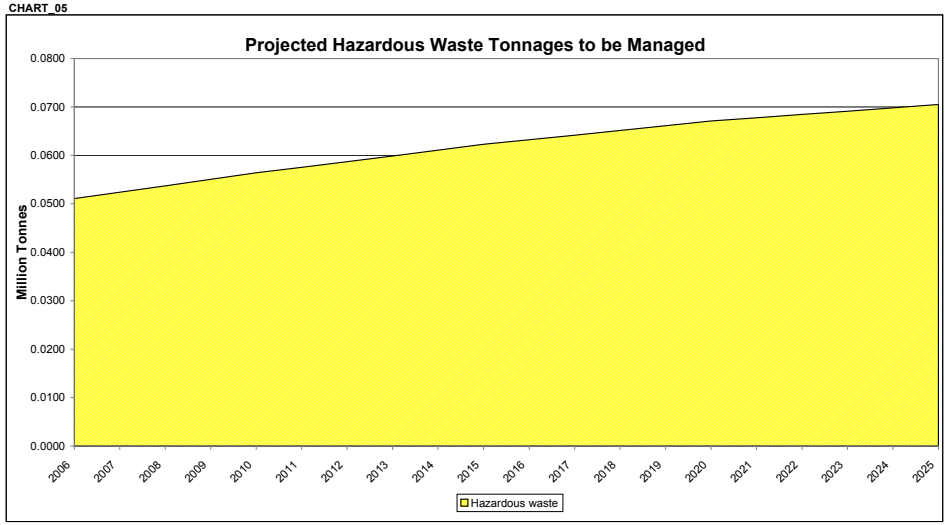


Oxfordshire

CHART_05



DATA_07: EXISTING/PLANNED CAPACITY FOR RECYCLING, RECOVERY AND LANDFILLING AND TOTAL WASTE TONNAGES TO EACH DISPOSAL ROUTE (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
MSW and C&I recovery																					
MSW and C&I incineration (non-specialist)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
MSW and C&I treatment	0.150	0.150	0.150	0.150	0.150	0.150	0.150	0.150	0.150	0.150	0.150	0.150	0.150	0.150	0.150	0.150	0.150	0.150	0.150	0.150	0.150
Total existing/planned MSW and C&I recovery capacity	0.150	0.150	0.150	0.150	0.150	0.150	0.150	0.150	0.150	0.150	0.150	0.150	0.150	0.150	0.150	0.150	0.150	0.150	0.150	0.150	0.150
Total MSW waste required to meet target	0.017	0.022	0.028	0.033	0.039	0.046	0.058	0.070	0.082	0.092	0.101	0.106	0.111	0.116	0.122	0.127	0.125	0.123	0.122	0.119	0.117
Total C&I waste required to meet target	0.080	0.083	0.086	0.090	0.093	0.097	0.105	0.114	0.123	0.133	0.143	0.146	0.150	0.154	0.157	0.161	0.160	0.158	0.157	0.155	0.153
Surplus/deficit capacity	0.053	0.045	0.036	0.027	0.017	0.007	-0.013	-0.034	-0.055	-0.074	-0.094	-0.102	-0.111	-0.120	-0.129	-0.138	-0.135	-0.132	-0.128	-0.124	-0.121
MSW and C&I recycling and composting																					
MSW and C&I recycling	0.713	0.713	0.713	0.713	0.713	0.713	0.713	0.713	0.713	0.713	0.713	0.713	0.713	0.713	0.713	0.713	0.713	0.713	0.713	0.713	0.713
MSW and C&I transfer	0.259	0.259	0.259	0.259	0.259	0.259	0.259	0.259	0.259	0.259	0.259	0.259	0.259	0.259	0.259	0.259	0.259	0.259	0.259	0.259	0.259
Total existing/planned MSW and C&I composting capacity	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050
(1) Total existing/planned MSW and C&I recycling and composting capacity (Baseline: 20% of transfer capacity delivers recycling)	0.814	0.814	0.814	0.814	0.814	0.814	0.814	0.814	0.814	0.814	0.814	0.814	0.814	0.814	0.814	0.814	0.814	0.814	0.814	0.814	0.814
(2) Total existing/planned MSW and C&I recycling and composting capacity (Sensitivity: 5% of transfer capacity delivers recycling)	0.776	0.776	0.776	0.776	0.776	0.776	0.776	0.776	0.776	0.776	0.776	0.776	0.776	0.776	0.776	0.776	0.776	0.776	0.776	0.776	0.776
Total MSW waste required to meet recycling and composting target	0.101	0.111	0.120	0.131	0.141	0.155	0.169	0.183	0.197	0.204	0.211	0.218	0.226	0.234	0.241	0.250	0.258	0.267	0.275	0.284	0.293
Total C&I waste required to meet recycling and composting target	0.228	0.246	0.264	0.283	0.302	0.323	0.336	0.349	0.363	0.377	0.392	0.405	0.419	0.432	0.446	0.461	0.473	0.486	0.498	0.511	0.525
Surplus/deficit capacity (Baseline: 20% of transfer capacity delivers recycling)	0.485	0.458	0.430	0.401	0.371	0.337	0.310	0.282	0.255	0.233	0.212	0.191	0.170	0.149	0.127	0.104	0.083	0.062	0.041	0.019	-0.003
Surplus/deficit capacity (Sensitivity: 5% of transfer capacity delivers recycling)	0.446	0.419	0.391	0.362	0.332	0.298	0.271	0.244	0.216	0.195	0.173	0.152	0.131	0.110	0.088	0.065	0.045	0.024	0.002	-0.020	-0.042
C&D recycling																					
Total existing/planned C&D recycling capacity	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107
Total waste required to meet C&D recycling target	0.340	0.347	0.355	0.362	0.370	0.377	0.377	0.377	0.377	0.377	0.377	0.393	0.408	0.423	0.438	0.453	0.453	0.453	0.453	0.453	0.453
Surplus/deficit capacity	-0.232	-0.240	-0.247	-0.255	-0.262	-0.270	-0.270	-0.270	-0.270	-0.270	-0.270	-0.285	-0.300	-0.315	-0.330	-0.345	-0.345	-0.345	-0.345	-0.345	-0.345
C&D recovery																					
(3) REGIONAL total existing/planned C&D recovery capacity	1.877	1.794	1.710	1.627	1.544	1.460	1.439	1.418	1.398	1.377	1.356	1.325	1.293	1.262	1.231	1.199	1.220	1.241	1.262	1.283	1.304
Sub-regional total waste required to meet C&D recovery target	0.272	0.267	0.263	0.258	0.254	0.249	0.254	0.258	0.263	0.267	0.272	0.260	0.248	0.236	0.223	0.211	0.214	0.217	0.220	0.223	0.226
Surplus/deficit capacity	1.605	1.527	1.448	1.369	1.290	1.211	1.186	1.160	1.135	1.109	1.084	1.065	1.046	1.026	1.007	0.988	1.006	1.024	1.041	1.059	1.077
Hazardous waste recycling																					
Total existing/planned hazardous waste recycling capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total hazardous waste to be recycled	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Surplus/deficit capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hazardous waste recovery																					
Total existing/planned hazardous waste recovery capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total hazardous waste to be recovered	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Surplus/deficit capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Non-hazardous landfill																					
Available non-hazardous landfill capacity (excluding residues from MSW and C&I recovery)	11.675	11.110	10.261	9.428	8.612	7.813	7.036	6.296	5.593	4.929	4.294	3.690	3.100	2.527	1.969	1.428	0.903	0.382	-0.136	-0.651	-1.162
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'Incineration (non-specialist)'	11.675	11.096	10.231	9.381	8.546	7.728	6.929	6.164	5.434	4.738	4.070	3.429	2.802	2.189	1.591	1.008	0.440	-0.124	-0.684	-1.240	-1.793
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'MBT'	11.675	11.053	10.142	9.242	8.353	7.476	6.614	5.778	4.966	4.181	3.414	2.665	1.927	1.200	0.483	-0.223	-0.918	-1.607	-2.291	-2.970	-3.643
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'RDF'	11.675	11.099	10.237	9.390	8.559	7.745	6.950	6.190	5.466	4.776	4.115	3.481	2.862	2.257	1.667	1.092	0.533	-0.023	-0.574	-1.122	-1.667
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'treatment'	11.675	11.067	10.170	9.286	8.414	7.556	6.714	5.900	5.115	4.358	3.622	2.908	2.206	1.515	0.836	0.169	-0.485	-1.135	-1.780	-2.420	-3.054
Total MSW and C&I waste sent direct to non-hazardous landfill	0.482	0.469	0.456	0.441	0.426	0.406	0.380	0.353	0.325	0.306	0.287	0.276	0.263	0.250	0.237	0.223	0.220	0.217	0.214	0.211	0.207
Inert landfill																					
Available inert landfill capacity	4.276	4.132	3.992	3.854	3.720	3.589	3.460	3.336	3.217	3.102	2.992	2.886	2.784	2.684	2.587	2.494	2.403	2.316	2.231	2.150	2.071
Available inert landfill capacity assuming all MSW and C&I recovery by 'Incineration (non-specialist)'	4.276	4.118	3.961	3.807	3.654	3.503	3.353	3.205	3.058	2.912	2.768	2.626	2.486	2.347	2.210	2.074	1.940	1.810	1.683	1.560	1.440
Total C&D waste sent direct to inert landfill	0.143	0.140	0.137	0.134	0.131	0.128	0.124	0.119	0.115	0.110	0.106	0.103	0.100	0.097	0.094	0.091	0.088	0.085	0.082	0.079	0.075
Hazardous landfill																					
Available hazardous landfill capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total hazardous waste sent direct to hazardous landfill	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Other																					
Metal/ELV facility	0.227	0.227	0.227	0.227	0.227	0.227	0.227	0.227	0.227	0.227	0.227	0.227	0.227	0.227	0.227	0.227	0.227	0.227	0.227	0.227	0.227
Ignored	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Closed	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

(1) ERM has assumed that 20% of the total 'transfer' capacity will deliver recycling capacity
(2) ERM has assumed that 5% of the total 'transfer' capacity will deliver recycling capacity
(3) Data for C&D recovery for landfill cover for the SE Region were sourced from the original MEL model, which sourced the data from Symonds (2001)
Note:

Oxfordshire

DATA_08: RESIDUE RATES (%)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Recovery residues (% by weight)																					
MSW and C&I incineration (non-specialist) - bottom ash	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
MSW and C&I incineration (non-specialist) - fly ash	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
MSW and C&I to MBT	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59
MSW and C&I to RDF	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
MSW and C&I treatment - non-hazardous	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45
MSW and C&I treatment - hazardous	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Hazardous waste recovery	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Recycling residues (% by weight)																					
MSW and C&I recycling	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
MSW and C&I transfer	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
MSW and C&I composting	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
C&D recycling	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Hazardous waste recycling	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Other																					
Metal/ELV facility	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Ignored	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Closed	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Note: All residues are calculated on the amount of waste arising not on the maount of capacity available. This is complaince with the self-sufficiency requirements of PPS10.

DATA_09: TOTAL RESIDUE (Million Tonnes)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Recovery residues (of waste managed):																					
MSW and C&I incineration (non-specialist) - bottom ash	0.029	0.032	0.034	0.037	0.040	0.043	0.049	0.055	0.062	0.067	0.073	0.076	0.078	0.081	0.084	0.087	0.086	0.085	0.083	0.082	0.081
MSW and C&I incineration (non-specialist) - fly ash	0.003	0.003	0.003	0.004	0.004	0.004	0.005	0.006	0.006	0.007	0.007	0.008	0.008	0.008	0.008	0.009	0.009	0.008	0.008	0.008	0.008
MSW and C&I to MBT	0.057	0.062	0.067	0.073	0.078	0.085	0.096	0.109	0.121	0.132	0.144	0.149	0.154	0.159	0.165	0.170	0.168	0.166	0.164	0.162	0.160
MSW and C&I to RDF	0.012	0.013	0.014	0.015	0.016	0.017	0.020	0.022	0.025	0.027	0.029	0.030	0.031	0.032	0.033	0.035	0.034	0.034	0.033	0.033	0.032
MSW and C&I treatment - non-hazardous	0.044	0.047	0.051	0.055	0.060	0.064	0.073	0.083	0.092	0.101	0.110	0.113	0.117	0.121	0.126	0.130	0.128	0.127	0.125	0.124	0.122
MSW and C&I treatment - hazardous	0.005	0.005	0.006	0.006	0.007	0.007	0.008	0.009	0.010	0.011	0.012	0.013	0.013	0.013	0.014	0.014	0.014	0.014	0.014	0.014	0.014
Hazardous waste recovery	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Recycling residues (of waste managed):																					
MSW and C&I recycling and composting	0.049	0.053	0.058	0.062	0.067	0.072	0.076	0.080	0.084	0.087	0.090	0.093	0.097	0.100	0.103	0.107	0.110	0.113	0.116	0.119	0.123
C&D recycling	0.034	0.035	0.035	0.036	0.037	0.038	0.038	0.038	0.038	0.038	0.038	0.039	0.041	0.042	0.044	0.045	0.045	0.045	0.045	0.045	0.045
Hazardous waste recycling	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Note: All residues are calculated on the amount of waste arising not on the maount of capacity available. This is complaince with the self-sufficiency requirements of PPS10.

DATA_10: TOTAL MSW AND C&I RESIDUE FROM RECYCLING SENT TO NON-HAZARDOUS LANDFILL (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Total MSW and C&I recycling and composting residue sent to non-hazardous landfill	0.083	0.088	0.093	0.098	0.104	0.109	0.113	0.118	0.122	0.125	0.128	0.133	0.137	0.142	0.147	0.152	0.155	0.158	0.161	0.165	0.168

DATA_11: TOTAL MSW AND C&I RESIDUE FROM RECOVERY SENT TO NON-HAZARDOUS LANDFILL AND C&D RECYCLING (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
SCENARIO 1 - Assumes all recovery is by 'Non-specialist incineration' (based on total recovery capacity)																					
(1) Total MSW and C&I residue sent to non-hazardous landfill assuming all MSW and C&I recovery by 'Non-specialist incineration'	0.015	0.016	0.017	0.018	0.020	0.021	0.024	0.028	0.031	0.034	0.037	0.038	0.039	0.040	0.042	0.043	0.043	0.042	0.042	0.041	0.041
(1) Total MSW and C&I residue sent to inert landfill assuming all MSW and C&I recovery by 'Non-specialist incineration'	0.015	0.016	0.017	0.018	0.020	0.021	0.024	0.028	0.031	0.034	0.037	0.038	0.039	0.040	0.042	0.043	0.043	0.042	0.042	0.041	0.041
SCENARIO 2 - Assumes all recovery is by 'MBT' (based on total recovery capacity)																					
Total MSW and C&I residue sent to non-hazardous landfill	0.057	0.062	0.067	0.073	0.078	0.085	0.096	0.109	0.121	0.132	0.144	0.149	0.154	0.159	0.165	0.170	0.168	0.166	0.164	0.162	0.160
SCENARIO 3 - Assumes all recovery is by 'RDF' (based on total recovery capacity)																					
Total MSW and C&I residue sent to non-hazardous landfill	0.012	0.013	0.014	0.015	0.016	0.017	0.020	0.022	0.025	0.027	0.029	0.030	0.031	0.032	0.033	0.035	0.034	0.034	0.033	0.033	0.032
SCENARIO 4 - Assumes all recovery is by 'treatment' (based on total recovery capacity)																					
Total MSW and C&I residue sent to non-hazardous landfill	0.044	0.047	0.051	0.055	0.060	0.064	0.073	0.083	0.092	0.101	0.110	0.113	0.117	0.121	0.126	0.130	0.128	0.127	0.125	0.124	0.122

(1) It was assumed that 50% of residue from 'non-specialist incineration' is sent to non-hazardous landfill and 50% is sent to inert landfill. In the original model assumptions developed MEL 50% was assumed to go to C&D recycling, rather than to inert landfi

DATA_12: TONNAGES OF C&D REUSED ON NON-HAZARDOUS AND INERT LANDFILL (Million Tonnes)

(1) C&D reused on landfill sites	39 %
(1) C&D reused on exempt sites	61 %
(1) C&D reused on landfill sites sent to 'non-haz landfill'	30 %
(1) C&D reused on landfill sites sent to 'inert landfill'	70 %

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
c&d	Total C&D reused on non-hazardous landfill	0.032	0.031	0.031	0.030	0.030	0.029	0.030	0.030	0.031	0.031	0.032	0.030	0.029	0.027	0.026	0.025	0.025	0.025	0.026	0.026	0.026
	Total reused C&D on inert landfill	0.074	0.073	0.071	0.070	0.069	0.068	0.069	0.070	0.071	0.073	0.074	0.071	0.067	0.064	0.061	0.057	0.058	0.059	0.060	0.061	0.061

(1) C&D reuse rates based on original model assumptions developed MEL
NOTE: C&D reuse on inert and non-hazardous landfill is not included within the charts because it has been assumed that data supplied by each sub-region has accounted for C&D reuse as an engineering material.

DATA_13: TOTAL MSW AND C&I RESIDUE FROM RECYCLING SENT TO HAZARDOUS LANDFILL (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Total MSW and C&I recycling and composting residue sent to hazardous landfill	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

DATA_14: TOTAL MSW AND C&I RESIDUE FROM RECOVERY SENT TO HAZARDOUS LANDFILL (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
SCENARIO 1 - Assumes all recovery is by 'Non-specialist incineration' (based on total recovery capacity)																					
Total MSW and C&I residue sent to hazardous landfill assuming all MSW and C&I recovery by 'Non-specialist incineration'	0.003	0.003	0.003	0.004	0.004	0.004	0.005	0.006	0.006	0.007	0.007	0.008	0.008	0.008	0.008	0.009	0.009	0.008	0.008	0.008	0.008
SCENARIO 2 - Assumes all recovery is by 'MBT' (based on total recovery capacity)																					
Total MSW and C&I residue sent to hazardous landfill	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SCENARIO 3 - Assumes all recovery is by 'RDF' (based on total recovery capacity)																					
Total MSW and C&I residue sent to hazardous landfill	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SCENARIO 4 - Assumes all recovery is by 'treatment' (based on total recovery capacity)																					
Total MSW and C&I residue sent to hazardous landfill	0.005	0.005	0.006	0.006	0.007	0.007	0.008	0.009	0.010	0.011	0.012	0.013	0.013	0.013	0.014	0.014	0.014	0.014	0.014	0.014	0.014

NOTE: This element of the model is redundant. There is currently no hazardous waste capacity figures to generate a chart of managed waste versus available capacity.

DATA_15: TOTAL HAZARDOUS WASTE RESIDUE FROM RECOVERY AND RECYCLING SENT TO HAZARDOUS LANDFILL (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Total hazardous waste recycling and recovery residue sent to hazardous landfill	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Oxfordshire

CHART_06

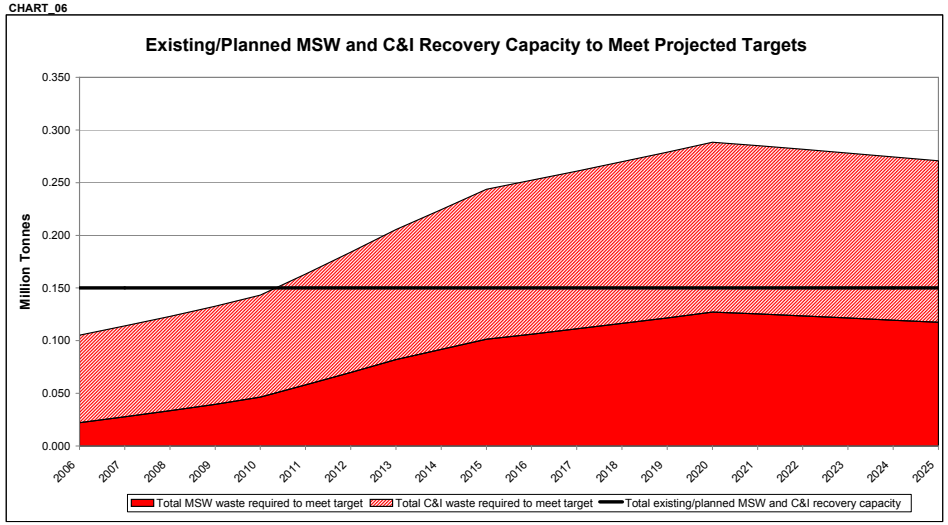


CHART_07

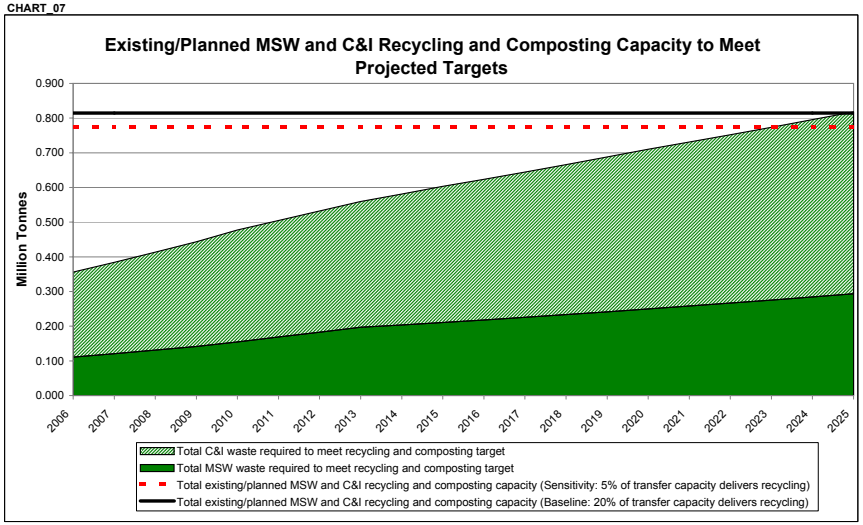
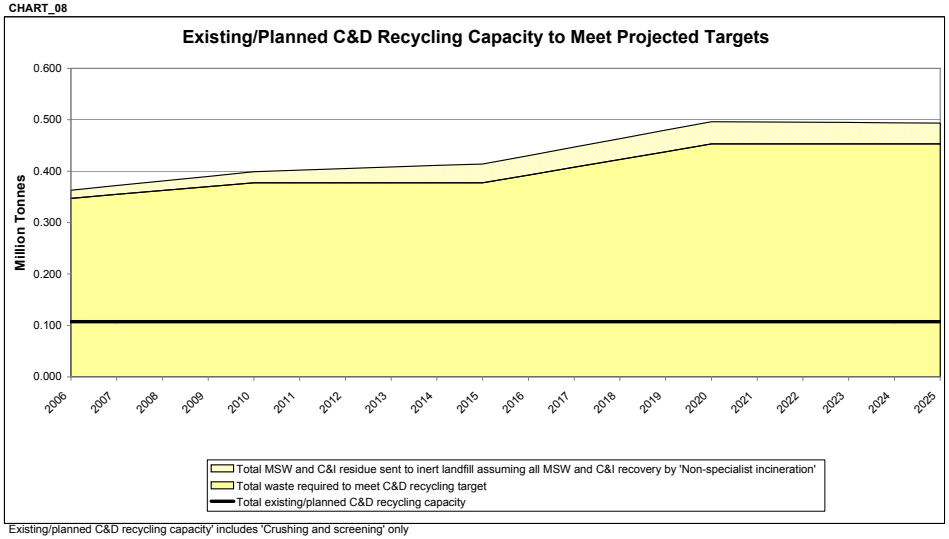


CHART_08



Existing/planned C&D recycling capacity' includes 'Crushing and screening' only
NOTE: This capacity does not represent the quantity of material that is recycled.
NOTE: Residue from MSW and C&I recovery is based on existing/planned capacity (not waste tonnage to meet recovery target)

Oxfordshire

CHART_09

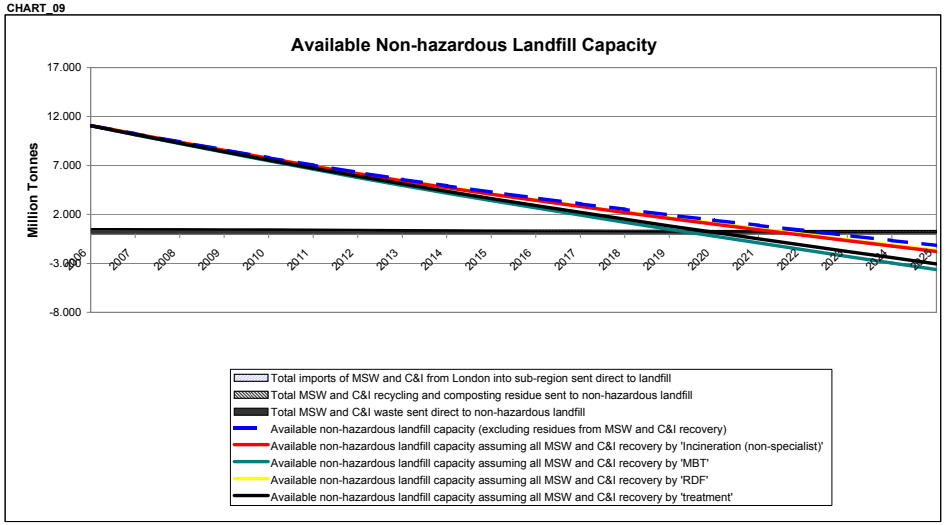
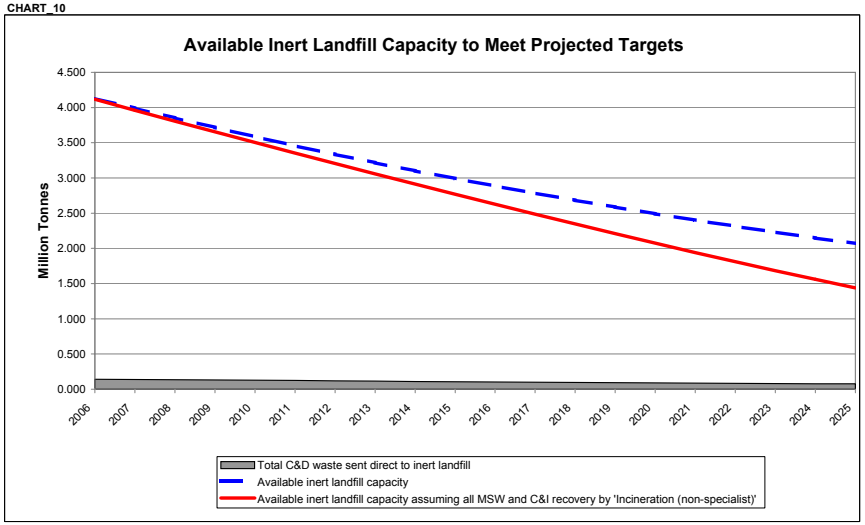


CHART_10



NOTE: The graph assumes that the baseline capacity for non-hazardous landfill has accounted for C&D reuse as a landfill engineering material.

Surrey

SUMMARY DATA AND RESULTS FOR SURREY

MANAGED WASTE USED TO GENERATE RESULTS (Million Tonnes)	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	0.659	0.676	0.693	0.710	0.728	0.742	0.757	0.772	0.788	0.804	0.816	0.828	0.840	0.853	0.866	0.879	0.892	0.905	0.919	0.933
msw - imports from london that are sent direct to non-hazardous landfill	0.063	0.062	0.060	0.059	0.057	0.054	0.051	0.047	0.044	0.041	0.039	0.038	0.036	0.034	0.033	0.032	0.031	0.031	0.030	0.029
c&i	0.838	0.859	0.880	0.902	0.925	0.943	0.962	0.981	1.001	1.021	1.036	1.052	1.067	1.083	1.100	1.111	1.122	1.133	1.144	1.156
c&i - imports from london that are sent direct to non-hazardous landfill	0.081	0.079	0.077	0.074	0.072	0.068	0.064	0.060	0.056	0.052	0.050	0.048	0.046	0.044	0.041	0.040	0.039	0.038	0.037	0.036
c&d	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881
hazardous	0.023	0.024	0.024	0.025	0.026	0.026	0.027	0.027	0.028	0.028	0.029	0.029	0.030	0.030	0.030	0.031	0.031	0.031	0.032	0.032

WASTE STREAM TONNAGES TO MEET TARGETS (Million Tonnes)		2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	LATS shortfall (how much extra is landfilled above LATS target)	-0.039	-0.034	-0.024	-0.010	0.008	0.016	0.024	0.030	0.017	0.003	0.001	0.000	-0.002	-0.004	-0.007	-0.006	-0.006	-0.006	-0.006	-0.005
	Recycling and composting target	0.211	0.230	0.249	0.270	0.298	0.324	0.350	0.377	0.390	0.403	0.417	0.430	0.445	0.461	0.476	0.492	0.508	0.525	0.542	0.560
	Recovery target	0.042	0.053	0.064	0.075	0.089	0.111	0.134	0.157	0.175	0.194	0.203	0.212	0.222	0.232	0.242	0.239	0.235	0.232	0.228	0.224
	Non-hazardous landfill	0.406	0.393	0.380	0.365	0.341	0.307	0.273	0.239	0.223	0.206	0.196	0.185	0.173	0.160	0.147	0.148	0.148	0.148	0.149	0.149
c&i	Recycling and composting target	0.352	0.378	0.405	0.433	0.462	0.481	0.500	0.520	0.540	0.561	0.580	0.599	0.619	0.639	0.660	0.677	0.695	0.714	0.732	0.751
	Recovery target	0.119	0.124	0.128	0.133	0.139	0.151	0.164	0.177	0.190	0.204	0.209	0.215	0.220	0.225	0.231	0.229	0.227	0.224	0.222	0.220
	Non-hazardous landfill	0.367	0.357	0.347	0.336	0.324	0.311	0.298	0.285	0.270	0.255	0.247	0.238	0.228	0.219	0.209	0.204	0.200	0.195	0.190	0.185
c&d	Recycling target	0.865	0.884	0.903	0.922	0.941	0.941	0.941	0.941	0.941	0.941	0.978	1.016	1.053	1.091	1.129	1.129	1.129	1.129	1.129	1.129
	Recovery target	0.666	0.655	0.643	0.632	0.621	0.632	0.643	0.655	0.666	0.677	0.647	0.617	0.587	0.557	0.527	0.534	0.542	0.549	0.557	0.564
	Inert landfill	0.350	0.342	0.335	0.327	0.320	0.308	0.297	0.286	0.275	0.263	0.256	0.248	0.241	0.233	0.226	0.218	0.211	0.203	0.196	0.188
hazardous	Hazardous waste	0.023	0.024	0.024	0.025	0.026	0.026	0.027	0.027	0.028	0.028	0.029	0.029	0.030	0.030	0.030	0.031	0.031	0.031	0.032	0.032

Note: If there is a LATS shortfall, denoted by a positive number, (ie insufficient allowance to landfill non-diverted waste) then the model assumes that this extra waste is recycled/composted and recovered at the same ratio as the regional targets for recycling/composting and recovery for that year.

EXISTING/PLANNED CAPACITY FOR RECYCLING, RECOVERY AND LANDFILLING AND TOTAL WASTE TONNAGES TO EACH DISPOSAL ROUTE (Million Tonnes)	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
MSW and C&I recovery																				
Total existing/planned MSW and C&I recovery capacity	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140
Surplus/deficit capacity	-0.021	-0.036	-0.052	-0.069	-0.088	-0.122	-0.157	-0.194	-0.225	-0.258	-0.272	-0.286	-0.302	-0.317	-0.333	-0.328	-0.322	-0.316	-0.310	-0.303
MSW and C&I recycling and composting																				
Total existing/planned MSW and C&I recycling and composting capacity (Baseline: 20% of transfer capacity delivers recycling)	1.419	1.419	1.419	1.419	1.419	1.419	1.419	1.419	1.419	1.419	1.419	1.419	1.419	1.419	1.419	1.419	1.419	1.419	1.419	1.419
Total existing/planned MSW and C&I recycling and composting capacity (Sensitivity: 5% of transfer capacity delivers recycling)	1.118	1.118	1.118	1.118	1.118	1.118	1.118	1.118	1.118	1.118	1.118	1.118	1.118	1.118	1.118	1.118	1.118	1.118	1.118	1.118
Surplus/deficit capacity (Baseline: 20% of transfer capacity delivers recycling)	0.856	0.811	0.765	0.716	0.659	0.614	0.568	0.522	0.489	0.454	0.422	0.389	0.354	0.319	0.283	0.249	0.215	0.180	0.144	0.108
Surplus/deficit capacity (Sensitivity: 5% of transfer capacity delivers recycling)	0.555	0.510	0.464	0.415	0.358	0.313	0.267	0.221	0.188	0.153	0.121	0.088	0.053	0.018	-0.018	-0.052	-0.086	-0.121	-0.157	-0.193
C&D recycling																				
Total existing/planned C&D recycling capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Surplus/deficit capacity	-0.865	-0.884	-0.903	-0.922	-0.941	-0.941	-0.941	-0.941	-0.941	-0.941	-0.978	-1.016	-1.053	-1.091	-1.129	-1.129	-1.129	-1.129	-1.129	-1.129
C&D recovery																				
REGIONAL total existing/planned C&D recovery capacity	1.794	1.710	1.627	1.544	1.460	1.439	1.418	1.398	1.377	1.356	1.325	1.293	1.262	1.231	1.199	1.220	1.241	1.262	1.283	1.304
Surplus/deficit capacity	1.128	1.056	0.984	0.912	0.839	0.807	0.775	0.743	0.711	0.679	0.677	0.676	0.675	0.674	0.673	0.686	0.699	0.713	0.726	0.739
Hazardous waste recycling																				
Total existing/planned hazardous waste recycling capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Surplus/deficit capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hazardous waste recovery																				
Total existing/planned hazardous waste recovery capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Surplus/deficit capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Non-hazardous landfill																				
Available non-hazardous landfill capacity (excluding residues from MSW and C&I recovery)	8.515	7.427	6.356	5.305	4.274	3.272	2.317	1.409	0.549	-0.278	-1.071	-1.851	-2.615	-3.363	-4.094	-4.808	-5.520	-6.232	-6.943	-7.653
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'Incineration (non-specialist)'	8.515	7.403	6.306	5.225	4.163	3.127	2.132	1.180	0.270	-0.611	-1.465	-2.306	-3.134	-3.949	-4.748	-5.533	-6.315	-7.096	-7.876	-8.653
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'MBT'	8.515	7.332	6.157	4.992	3.838	2.702	1.592	0.509	-0.548	-1.590	-2.619	-3.641	-4.657	-5.666	-6.667	-7.659	-8.648	-9.632	-10.612	-11.588
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'RDF'	8.515	7.408	6.316	5.241	4.185	3.156	2.169	1.226	0.326	-0.545	-1.386	-2.215	-3.031	-3.832	-4.618	-5.388	-6.156	-6.923	-7.689	-8.453
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'treatment'	8.515	7.354	6.205	5.067	3.942	2.837	1.764	0.722	-0.287	-1.279	-2.251	-3.216	-4.173	-5.120	-6.057	-6.983	-7.906	-8.825	-9.741	-10.654
Inert landfill																				
Available inert landfill capacity	11.526	11.176	10.834	10.499	10.172	9.852	9.543	9.246	8.960	8.686	8.422	8.167	7.918	7.677	7.444	7.219	7.000	6.790	6.586	6.391
Available inert landfill capacity assuming all MSW and C&I recovery by 'Incineration (non-specialist)'	11.526	11.152	10.783	10.420	10.061	9.707	9.359	9.017	8.681	8.352	8.029	7.711	7.399	7.092	6.790	6.493	6.205	5.925	5.654	5.390
Hazardous landfill																				
Available hazardous landfill capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Note: The model does not contain data for the management of hazardous waste.

DATA_01: ARISINGS AND GROWTH RATES OF MSW, C&I AND HAZARDOUS WASTE (Million Tonnes)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw Arisings of MSW in baseline year																					
(1) Forecast regional level growth rate of MSW - per year (%)	3.0%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%
(1) Forecast regional level growth rate of MSW - cumulative (%)	103%	106%	108%	111%	114%	117%	119%	121%	124%	126%	129%	131%	133%	135%	137%	139%	141%	143%	145%	147%	149%
Total arisings of MSW using regional growth forecasts	0.643	0.659	0.676	0.693	0.710	0.728	0.742	0.757	0.772	0.788	0.804	0.816	0.828	0.840	0.853	0.866	0.879	0.892	0.905	0.919	0.933
(1) Forecast sub-regional growth rate of MSW - per year (%)	2.0%	2.0%	2.0%	2.0%	2.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	0.5%	0.5%	0.5%	0.5%	0.5%	0.5%
(1) Forecast sub-regional level growth rate of MSW - cumulative (%)	102%	104%	106%	108%	110%	112%	113%	114%	115%	116%	117%	118%	120%	121%	122%	123%	123%	124%	124%	125%	126%
Total arisings of MSW using sub-regional growth forecasts	0.637	0.650	0.663	0.676	0.690	0.696	0.703	0.710	0.718	0.725	0.732	0.739	0.747	0.754	0.762	0.765	0.769	0.773	0.777	0.781	0.785
c&i Arisings of C&I in baseline year																					
(1) Forecast regional level growth rate of C&I - per year (%)	3.3%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.0%	1.0%	1.0%	1.0%	1.0%
(1) Forecast regional level growth rate of C&I - cumulative (%)	110%	113%	116%	119%	122%	125%	127%	130%	132%	135%	138%	140%	142%	144%	146%	148%	150%	151%	153%	154%	156%
Total arisings of C&I using regional growth forecasts	0.817	0.838	0.859	0.880	0.902	0.925	0.943	0.962	0.981	1.001	1.021	1.036	1.052	1.067	1.083	1.100	1.111	1.122	1.133	1.144	1.156
(1) Forecast sub-regional level growth rate of C&I - per year (%)	1.7%	1.7%	1.7%	1.7%	1.7%	1.6%	1.6%	1.6%	1.6%	1.6%	0.8%	0.8%	0.8%	0.8%	0.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
(1) Forecast sub-regional level growth rate of C&I - cumulative (%)	105%	107%	109%	111%	113%	115%	117%	118%	120%	122%	123%	124%	125%	126%	127%	127%	127%	127%	127%	127%	127%
Total arisings of C&I using sub-regional growth forecasts	0.782	0.796	0.809	0.823	0.838	0.851	0.865	0.878	0.892	0.906	0.914	0.921	0.928	0.936	0.943	0.943	0.943	0.943	0.943	0.943	0.943
hazardous Arisings of hazardous waste in baseline year																					
(2) Forecast regional level growth rate of hazardous waste - per year (%)	3.3%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.0%	1.0%	1.0%	1.0%	1.0%
Forecast regional level growth rate of hazardous waste - cumulative (%)	107%	109%	112%	115%	118%	121%	123%	126%	128%	131%	133%	135%	137%	139%	141%	144%	145%	146%	148%	149%	151%
Total arisings of hazardous waste	0.023	0.023	0.024	0.024	0.025	0.026	0.026	0.027	0.027	0.028	0.028	0.029	0.029	0.030	0.030	0.030	0.031	0.031	0.031	0.032	0.032
(2) Forecast sub-regional level growth rate of hazardous waste - per year (%)	1.7%	1.7%	1.7%	1.7%	1.7%	1.6%	1.6%	1.6%	1.6%	1.6%	0.8%	0.8%	0.8%	0.8%	0.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Forecast sub regional level growth rate of hazardous waste - cumulative (%)	104%	105%	107%	109%	111%	113%	114%	116%	118%	120%	121%	122%	123%	124%	125%	125%	125%	125%	125%	125%	125%
Total arisings of hazardous waste	0.022	0.022	0.023	0.023	0.024	0.024	0.024	0.025	0.025	0.025	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026
c&d Total managed C&D in baseline year																					
(3) Forecast regional-level growth rate of managed C&D - per year (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Forecast regional-level growth rate of managed C&D - cumulative (%)	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
(3) Total managed of C&D for the sub-region	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881

(1) Figures from SEERA updated waste capacity model by ERM in 2005.
(2) Baseline year of hazardous waste arisings is 2003 from EA Hazardous Waste Interrogator. www.environment-agency.gov.uk/apps/wastesurvey2/. ERM has assumed that growth in hazardous waste is equal to C&I waste.
(3) These data represent managed C&D waste in the sub-region, including all intra-regional and inter-regional movements. Growth is assumed to be zero from the orginal MEL study and updated modeted by ERM in 2005.
NOTE: C&D waste is not included in arisings because this was taken from survey data by Symonds 2001 which gave values for managed C&D waste.

Surrey

Figure in blue represent data supplied by each sub-region for the new '2006 SEERA Capacity and Need Model'
Figures in orange represent managed waste that are used by the model to calculate results. These can be adjusted for different scenarios.

DATA_02: INTER REGIONAL MOVEMENTS OF MSW and C&I (Million Tonnes)		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw and c&i	Regional level imports of MSW and C&I waste into the SE region from London	1.76	1.716	1.672	1.628	1.584	1.54	1.454	1.368	1.282	1.196	1.11	1.064	1.018	0.972	0.926	0.88	0.86	0.84	0.82	0.8	0.78
	Proportion of regional MSW and C&I imports that go to the sub-region (%)	8.4%	8.4%	8.4%	8.4%	8.4%	8.4%	8.4%	8.4%	8.4%	8.4%	8.4%	8.4%	8.4%	8.4%	8.4%	8.4%	8.4%	8.4%	8.4%	8.4%	8.4%
	(1) Total imports of MSW and C&I from London into sub-region sent direct to landfill	0.148	0.144	0.140	0.137	0.133	0.129	0.122	0.115	0.108	0.100	0.093	0.089	0.086	0.082	0.078	0.074	0.072	0.071	0.069	0.067	0.066
msw	Proportion of total MSW and C&I imports that are MSW (%) - REGIONAL GROWTH FORECAST	44%	44%	44%	44%	44%	44%	44%	44%	44%	44%	44%	44%	44%	44%	44%	44%	44%	44%	44%	45%	45%
	Total imports of MSW into the sub-region from London - REGIONAL GROWTH FORECAST	0.065	0.063	0.062	0.060	0.059	0.057	0.054	0.051	0.047	0.044	0.041	0.039	0.038	0.036	0.034	0.033	0.032	0.031	0.031	0.030	0.029
	Proportion of total MSW and C&I imports that are MSW (%) - SUB-REGIONAL GROWTH FORECAST	45%	45%	45%	45%	45%	45%	45%	45%	45%	44%	44%	45%	45%	45%	45%	45%	45%	45%	45%	45%	45%
	Total imports of MSW into the sub-region from London - SUB-REGIONAL GROWTH FORECAST	0.066	0.065	0.063	0.062	0.060	0.058	0.055	0.051	0.048	0.045	0.041	0.040	0.038	0.036	0.035	0.033	0.032	0.032	0.031	0.030	0.030
c&i	Proportion of total MSW and C&I imports that are C&I (%) - REGIONAL GROWTH FORECAST	56%	56%	56%	56%	56%	56%	56%	56%	56%	56%	56%	56%	56%	56%	56%	56%	56%	56%	56%	55%	55%
	Total imports of C&I into the sub-region from London - REGIONAL GROWTH FORECAST	0.083	0.081	0.079	0.077	0.074	0.072	0.068	0.064	0.060	0.056	0.052	0.050	0.048	0.046	0.044	0.041	0.040	0.039	0.038	0.037	0.036
	Proportion of total MSW and C&I imports that are C&I (%) - SUB-REGIONAL GROWTH FORECAST	55%	55%	55%	55%	55%	55%	55%	55%	55%	56%	56%	55%	55%	55%	55%	55%	55%	55%	55%	55%	55%
	Total imports of C&I into the sub-region from London - SUB-REGIONAL GROWTH FORECAST	0.081	0.079	0.077	0.075	0.073	0.071	0.067	0.064	0.060	0.056	0.052	0.050	0.047	0.045	0.043	0.041	0.040	0.039	0.038	0.037	0.036

(1) Intra-regional and inter-regional movements have been excluded for MSW and C&I waste due to self-sufficiency requirements under PPS10, except for inter-regional movements from London into the sub-region. Apportionment from Policy W3 in the Plan – downloa
Note: Only a figure is available for total combined imports of MSW and C&I waste. ERM has assumed that imports of the seperate waste streams of MSW and C&I was split according to tonnage arisings of MSW and C&I in the sub-region.

DATA_03: MANAGED WASTE USED TO GENERATE RESULTS (Million Tonnes)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	0.643	0.659	0.676	0.693	0.710	0.728	0.742	0.757	0.772	0.788	0.804	0.816	0.828	0.840	0.853	0.866	0.879	0.892	0.905	0.919	0.933
msw - imports from london that are sent direct to non-hazardous landfill	0.065	0.063	0.062	0.060	0.059	0.057	0.054	0.051	0.047	0.044	0.041	0.039	0.038	0.036	0.034	0.033	0.032	0.031	0.031	0.030	0.029
c&i	0.817	0.838	0.859	0.880	0.902	0.925	0.943	0.962	0.981	1.001	1.021	1.036	1.052	1.067	1.083	1.100	1.111	1.122	1.133	1.144	1.156
c&i - imports from london that are sent direct to non-hazardous landfill	0.083	0.081	0.079	0.077	0.074	0.072	0.068	0.064	0.060	0.056	0.052	0.050	0.048	0.046	0.044	0.041	0.040	0.039	0.038	0.037	0.036
c&d	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881
hazardous	0.023	0.023	0.024	0.024	0.025	0.026	0.026	0.027	0.027	0.028	0.028	0.029	0.029	0.030	0.030	0.030	0.031	0.031	0.031	0.032	0.032

DATA_04: TARGETS (% or Million Tonnes)		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	(1) landfill (Mt)	0.325	0.316	0.301	0.282	0.258	0.229	0.204	0.178	0.153	0.146	0.140	0.133	0.126	0.120	0.113	0.107	0.107	0.107	0.107	0.107	0.107
	recovered (%)	5	6.4	7.8	9.2	10.6	12	14.4	16.8	19.2	21.6	24	24.8	25.6	26.4	27.2	28	27.2	26.4	25.6	24.8	24
	recycled and composted (%)	30	32.0	34.0	36.0	38.0	40	42.0	44.0	46.0	48.0	50	51.0	52.0	53.0	54.0	55	56.0	57.0	58.0	59.0	60
c&i	recovered (%)	14	14.2	14.4	14.6	14.8	15	16.0	17.0	18.0	19.0	20	20.2	20.4	20.6	20.8	21	20.6	20.2	19.8	19.4	19
	recycled and composted (%)	40	42.0	44.0	46.0	48.0	50	51.0	52.0	53.0	54.0	55	56.0	57.0	58.0	59.0	60	61.0	62.0	63.0	64.0	65
c&d	recovered (%)	36	35.4	34.8	34.2	33.6	33	33.6	34.2	34.8	35.4	36	34.4	32.8	31.2	29.6	28	28.4	28.8	29.2	29.6	30
	recycled (%)	45	46.0	47.0	48.0	49.0	50	50.0	50.0	50.0	50.0	50	52.0	54.0	56.0	58.0	60	60.0	60.0	60.0	60.0	60
hazardous	landfill (%)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	recovered (%)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	recycled (%)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

(1) ERM has assumed that the LATS target allowance remains constant at the 2020 value for the years beyond 2020

DATA_05: WASTE STREAM TONNAGES TO MEET TARGETS (Million Tonnes)

This first section of DATA_03 calculates if there is a LATS shortfall or suplus in each year. If there is a LATS shortfall (ie insufficient allowance to landfill non-diverted waste) then the model assumes that this extra waste is recycled/composted and r

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	Total MSW to be recovered and recycled/composted to meet target	0.225	0.253	0.283	0.313	0.345	0.378	0.419	0.460	0.504	0.548	0.595	0.618	0.642	0.667	0.693	0.718	0.731	0.744	0.757	0.770	0.783
	Total MSW not-diverted by targets	0.418	0.406	0.393	0.380	0.365	0.349	0.324	0.297	0.269	0.239	0.209	0.197	0.185	0.173	0.160	0.147	0.148	0.148	0.148	0.149	0.149
	Percentage of MSW that is biodegradable (% by weight)	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68
	Total BMW not-diverted by targets	0.284	0.276	0.267	0.258	0.248	0.238	0.220	0.202	0.183	0.163	0.142	0.134	0.126	0.118	0.109	0.100	0.100	0.101	0.101	0.101	0.101
	LATS shortfall (how much extra is landfilled above LATS target)	-0.041	-0.039	-0.034	-0.024	-0.010	0.008	0.016	0.024	0.030	0.017	0.003	0.001	0.000	-0.002	-0.004	-0.007	-0.006	-0.006	-0.006	-0.006	-0.005
	Ratio of 'recovered' to 'recycled/composted' for target (%)	14%	17%	19%	20%	22%	23%	26%	28%	29%	31%	32%	33%	33%	33%	33%	34%	33%	32%	31%	30%	29%
	Extra MSW 'recovery' needed due to LATS shortfall	0.000	0.000	0.000	0.000	0.000	*0.002*	*0.004*	*0.007*	*0.009*	*0.005*	*0.001*	*0.000*	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Extra MSW 'recycling/composting' needed due to LATS shortfall	0.000	0.000	0.000	0.000	0.000	*0.006*	*0.012*	*0.017*	*0.021*	*0.012*	*0.002*	*0.001*	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

The section below in DATA_03 shows the tonnages by waste to meet targets.

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	Recycling and composting target	0.193	0.211	0.230	0.249	0.270	0.298	0.324	0.350	0.377	0.390	0.403	0.417	0.430	0.445	0.461	0.476	0.492	0.508	0.525	0.542	0.560
	Recovery target	0.032	0.042	0.053	0.064	0.075	0.089	0.111	0.134	0.157	0.175	0.194	0.203	0.212	0.222	0.232	0.242	0.239	0.235	0.232	0.228	0.224
	Non-hazardous landfill	0.418	0.406	0.393	0.380	0.365	0.341	0.307	0.273	0.239	0.223	0.206	0.196	0.185	0.173	0.160	0.147	0.148	0.148	0.148	0.149	0.149
	CHECK COUNTER (should be zero)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
c&i	Recycling and composting target	0.327	0.352	0.378	0.405	0.433	0.462	0.481	0.500	0.520	0.540	0.561	0.580	0.599	0.619	0.639	0.660	0.677	0.695	0.714	0.732	0.751
	Recovery target	0.114	0.119	0.124	0.128	0.133	0.139	0.151	0.164	0.177	0.190	0.204	0.209	0.215	0.220	0.225	0.231	0.229	0.227	0.224	0.222	0.220
	Non-hazardous landfill	0.376	0.367	0.357	0.347	0.336	0.324	0.311	0.298	0.285	0.270	0.255	0.247	0.238	0.228	0.219	0.209	0.204	0.200	0.195	0.190	0.185
	CHECK COUNTER (should be zero)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

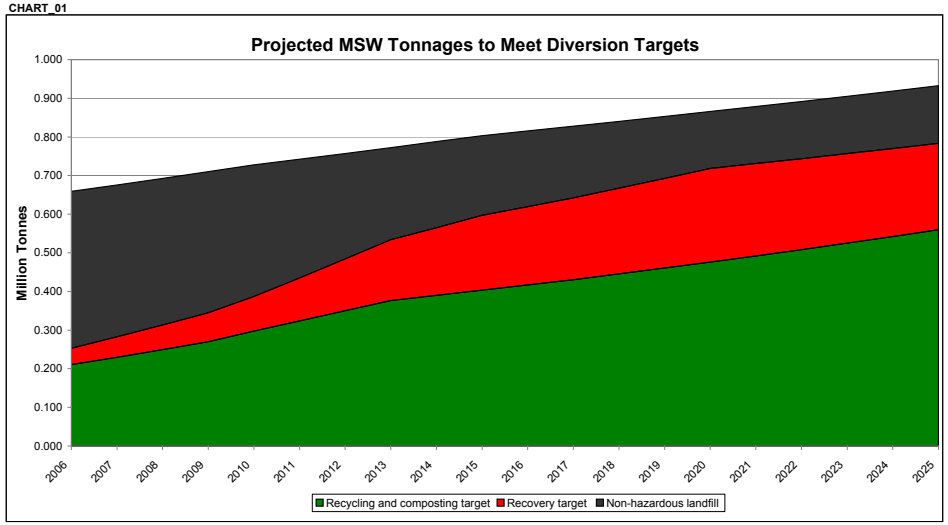
		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
c&d	Recycling target	0.846	0.865	0.884	0.903	0.922	0.941	0.941	0.941	0.941	0.941	0.941	0.978	1.016	1.053	1.091	1.129	1.129	1.129	1.129	1.129	1.129
	Recovery target	0.677	0.666	0.655	0.643	0.632	0.621	0.632	0.643	0.655	0.666	0.677	0.647	0.617	0.587	0.557	0.527	0.534	0.542	0.549	0.557	0.564
	Inert landfill	0.357	0.350	0.342	0.335	0.327	0.320	0.308	0.297	0.286	0.275	0.263	0.256	0.248	0.241	0.233	0.226	0.218	0.211	0.203	0.196	0.188
	CHECK COUNTER (should be zero)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
hazardous	Hazardous waste	0.023	0.023	0.024	0.024	0.025	0.026	0.026	0.027	0.027	0.028	0.028	0.029	0.029	0.030	0.030	0.030	0.031	0.031	0.031	0.032	0.032

DATA_06: TOTAL WASTE TONNAGES TO MEET TARGETS (Million Tonnes)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
MSW and C&I recycling and composting target	0.520	0.563	0.608	0.654	0.703	0.760	0.805	0.851	0.897	0.930	0.965	0.997	1.030	1.064	1.100	1.136	1.170	1.204	1.239	1.274	1.311
C&D recycling target	0.846	0.865	0.884	0.903	0.922	0.941	0.941	0.941	0.941	0.941	0.941	0.978	1.016	1.053	1.091	1.129	1.129	1.129	1.129	1.129	1.129
MSW and C&I recovery target	0.147	0.161	0.176	0.192	0.209	0.228	0.262	0.297	0.334	0.366	0.398	0.412	0.426	0.442	0.457	0.473	0.468	0.462	0.456	0.450	0.443
C&D recovery target	0.677	0.666	0.655	0.643	0.632	0.621	0.632	0.643	0.655	0.666	0.677	0.647	0.617	0.587	0.557	0.527	0.534	0.542	0.549	0.557	0.564
Non-hazardous landfill	0.794	0.773	0.750	0.726	0.700	0.665	0.618	0.571	0.523	0.493	0.462	0.443	0.423	0.402	0.379	0.356	0.352	0.348	0.343	0.339	0.334
Inert landfill	0.357	0.350	0.342	0.335	0.327	0.320	0.308	0.297	0.286	0.275	0.263	0.256	0.248	0.241	0.233	0.226	0.218	0.211	0.203	0.196	0.188
Hazardous waste	0.023	0.023	0.024	0.024	0.025	0.026	0.026	0.027	0.027	0.028	0.028	0.029	0.029	0.030	0.030	0.030	0.031	0.031	0.031	0.032	0.032

Surrey

CHART_01



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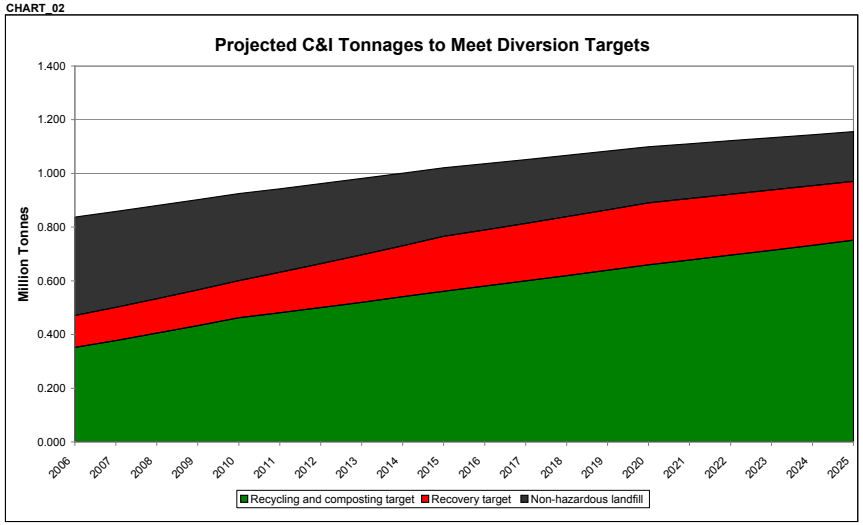

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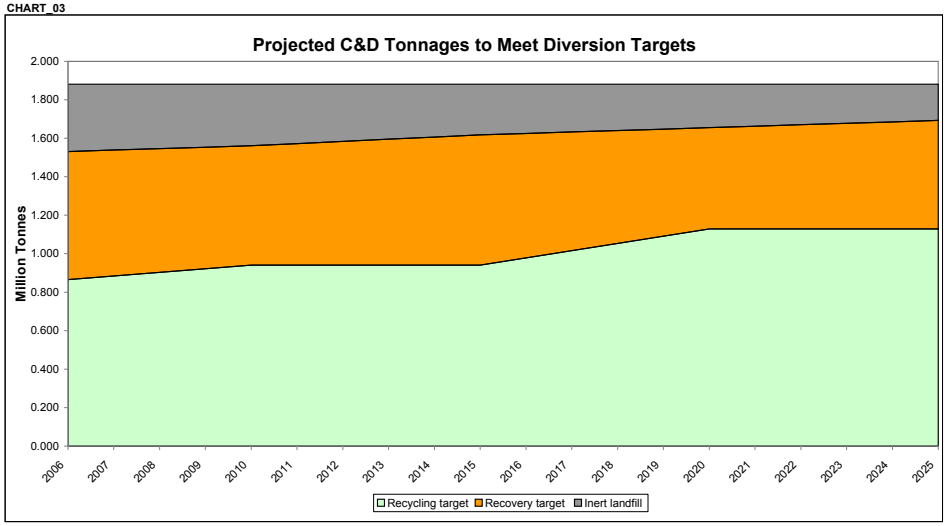

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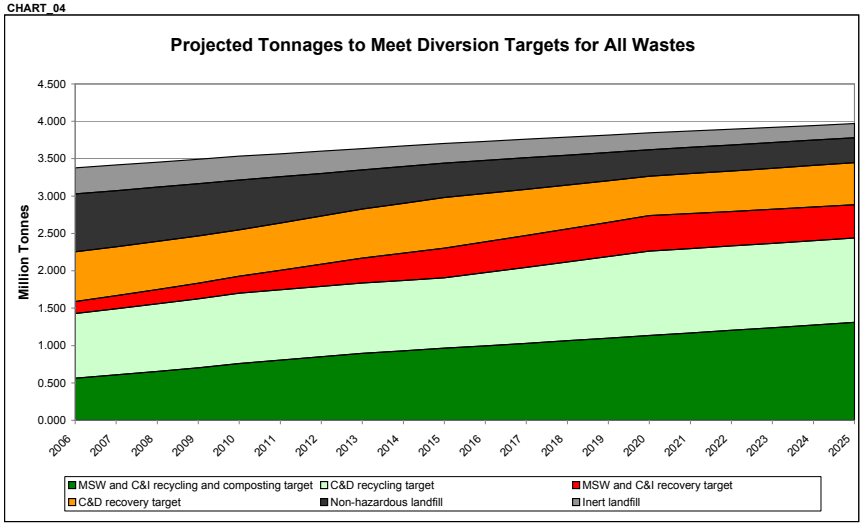
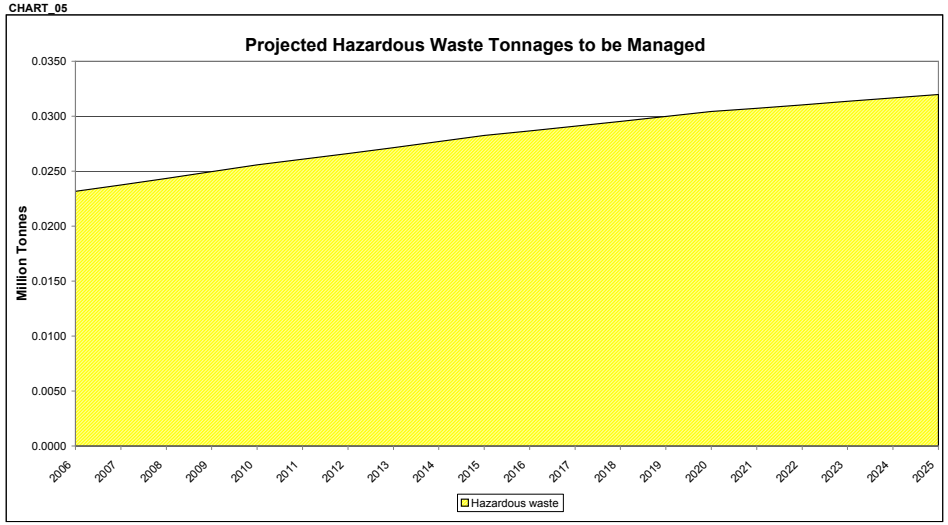


Surrey

CHART_05



DATA_07: EXISTING/PLANNED CAPACITY FOR RECYCLING, RECOVERY AND LANDFILLING AND TOTAL WASTE TONNAGES TO EACH DISPOSAL ROUTE (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
MSW and C&I recovery																					
MSW and C&I incineration (non-specialist)	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006
MSW and C&I treatment	0.134	0.134	0.134	0.134	0.134	0.134	0.134	0.134	0.134	0.134	0.134	0.134	0.134	0.134	0.134	0.134	0.134	0.134	0.134	0.134	0.134
Total existing/planned MSW and C&I recovery capacity	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140
Total MSW waste required to meet target	0.032	0.042	0.053	0.064	0.075	0.089	0.111	0.134	0.157	0.175	0.194	0.203	0.212	0.222	0.232	0.242	0.239	0.235	0.232	0.228	0.224
Total C&I waste required to meet target	0.114	0.119	0.124	0.128	0.133	0.139	0.151	0.164	0.177	0.190	0.204	0.209	0.215	0.220	0.225	0.231	0.229	0.227	0.224	0.222	0.220
Surplus/deficit capacity	-0.007	-0.021	-0.036	-0.052	-0.069	-0.088	-0.122	-0.157	-0.194	-0.225	-0.258	-0.272	-0.286	-0.302	-0.317	-0.333	-0.328	-0.322	-0.316	-0.310	-0.303
MSW and C&I recycling and composting																					
MSW and C&I recycling	1.017	1.017	1.017	1.017	1.017	1.017	1.017	1.017	1.017	1.017	1.017	1.017	1.017	1.017	1.017	1.017	1.017	1.017	1.017	1.017	1.017
MSW and C&I transfer	2.007	2.007	2.007	2.007	2.007	2.007	2.007	2.007	2.007	2.007	2.007	2.007	2.007	2.007	2.007	2.007	2.007	2.007	2.007	2.007	2.007
Total existing/planned MSW and C&I composting capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
(1) Total existing/planned MSW and C&I recycling and composting capacity (Baseline: 20% of transfer capacity delivers recycling)	1.419	1.419	1.419	1.419	1.419	1.419	1.419	1.419	1.419	1.419	1.419	1.419	1.419	1.419	1.419	1.419	1.419	1.419	1.419	1.419	1.419
(2) Total existing/planned MSW and C&I recycling and composting capacity (Sensitivity: 5% of transfer capacity delivers recycling)	1.118	1.118	1.118	1.118	1.118	1.118	1.118	1.118	1.118	1.118	1.118	1.118	1.118	1.118	1.118	1.118	1.118	1.118	1.118	1.118	1.118
Total MSW waste required to meet recycling and composting target	0.193	0.211	0.230	0.249	0.270	0.298	0.324	0.350	0.377	0.390	0.403	0.417	0.430	0.445	0.461	0.476	0.492	0.508	0.525	0.542	0.560
Total C&I waste required to meet recycling and composting target	0.327	0.352	0.378	0.405	0.433	0.462	0.481	0.500	0.520	0.540	0.561	0.580	0.599	0.619	0.639	0.660	0.677	0.695	0.714	0.732	0.751
Surplus/deficit capacity (Baseline: 20% of transfer capacity delivers recycling)	0.899	0.856	0.811	0.765	0.716	0.659	0.614	0.568	0.522	0.489	0.454	0.422	0.389	0.354	0.319	0.283	0.249	0.215	0.180	0.144	0.108
Surplus/deficit capacity (Sensitivity: 5% of transfer capacity delivers recycling)	0.598	0.555	0.510	0.464	0.415	0.358	0.313	0.267	0.221	0.188	0.153	0.121	0.088	0.053	0.018	-0.018	-0.052	-0.086	-0.121	-0.157	-0.193
C&D recycling																					
Total existing/planned C&D recycling capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total waste required to meet C&D recycling target	0.846	0.865	0.884	0.903	0.922	0.941	0.941	0.941	0.941	0.941	0.941	0.978	1.016	1.053	1.091	1.129	1.129	1.129	1.129	1.129	1.129
Surplus/deficit capacity	-0.846	-0.865	-0.884	-0.903	-0.922	-0.941	-0.941	-0.941	-0.941	-0.941	-0.941	-0.978	-1.016	-1.053	-1.091	-1.129	-1.129	-1.129	-1.129	-1.129	-1.129
C&D recovery																					
(3) REGIONAL total existing/planned C&D recovery capacity	1.877	1.794	1.710	1.627	1.544	1.460	1.439	1.418	1.398	1.377	1.356	1.325	1.293	1.262	1.231	1.199	1.220	1.241	1.262	1.283	1.304
Sub-regional total waste required to meet C&D recovery target	0.677	0.666	0.655	0.643	0.632	0.621	0.632	0.643	0.655	0.666	0.677	0.647	0.617	0.587	0.557	0.527	0.534	0.542	0.549	0.557	0.564
Surplus/deficit capacity	1.200	1.128	1.056	0.984	0.912	0.839	0.807	0.775	0.743	0.711	0.679	0.677	0.676	0.675	0.674	0.673	0.686	0.699	0.713	0.726	0.739
Hazardous waste recycling																					
Total existing/planned hazardous waste recycling capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total hazardous waste to be recycled	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Surplus/deficit capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hazardous waste recovery																					
Total existing/planned hazardous waste recovery capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total hazardous waste to be recovered	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Surplus/deficit capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Non-hazardous landfill																					
Available non-hazardous landfill capacity (excluding residues from MSW and C&I recovery)		8.515	7.427	6.356	5.305	4.274	3.272	2.317	1.409	0.549	-0.278	-1.071	-1.851	-2.615	-3.363	-4.094	-4.808	-5.520	-6.232	-6.943	-7.653
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'Incineration (non-specialist)'		8.515	7.403	6.306	5.225	4.163	3.127	2.132	1.180	0.270	-0.611	-1.465	-2.306	-3.134	-3.949	-4.748	-5.533	-6.315	-7.096	-7.876	-8.653
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'MBT'		8.515	7.332	6.157	4.992	3.838	2.702	1.592	0.509	-0.548	-1.590	-2.619	-3.641	-4.657	-5.666	-6.667	-7.659	-8.648	-9.632	-10.612	-11.588
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'RDF'		8.515	7.408	6.316	5.241	4.185	3.156	2.169	1.226	0.326	-0.545	-1.386	-2.215	-3.031	-3.832	-4.618	-5.388	-6.156	-6.923	-7.689	-8.453
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'treatment'		8.515	7.354	6.205	5.067	3.942	2.837	1.764	0.722	-0.287	-1.279	-2.251	-3.216	-4.173	-5.120	-6.057	-6.983	-7.906	-8.825	-9.741	-10.654
Total MSW and C&I waste sent direct to non-hazardous landfill		0.773	0.750	0.726	0.700	0.665	0.618	0.571	0.523	0.493	0.462	0.443	0.423	0.402	0.379	0.356	0.352	0.348	0.343	0.339	0.334
Inert landfill																					
Available inert landfill capacity		11.526	11.176	10.834	10.499	10.172	9.852	9.543	9.246	8.960	8.686	8.422	8.167	7.918	7.677	7.444	7.219	7.000	6.790	6.586	6.391
Available inert landfill capacity assuming all MSW and C&I recovery by 'Incineration (non-specialist)'		11.526	11.152	10.783	10.420	10.061	9.707	9.359	9.017	8.681	8.352	8.029	7.711	7.399	7.092	6.790	6.493	6.205	5.925	5.654	5.390
Total C&D waste sent direct to inert landfill	0.357	0.350	0.342	0.335	0.327	0.320	0.308	0.297	0.286	0.275	0.263	0.256	0.248	0.241	0.233	0.226	0.218	0.211	0.203	0.196	0.188
Hazardous landfill																					
Available hazardous landfill capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total hazardous waste sent direct to hazardous landfill	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Other																					
Metal/ELV facility	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024	0.024
Ignored	2.571	2.571	2.571	2.571	2.571	2.571	2.571	2.571	2.571	2.571	2.571	2.571	2.571	2.571	2.571	2.571	2.571	2.571	2.571	2.571	2.571
Closed	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

(1) ERM has assumed that 20% of the total 'transfer' capacity will deliver recycling capacity
(2) ERM has assumed that 5% of the total 'transfer' capacity will deliver recycling capacity
(3) Data for C&D recovery for landfill cover for the SE Region were sourced from the original MEL model, which sourced the data from Symonds (2001)
Note:

Surrey

DATA_08: RESIDUE RATES (%)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Recovery residues (% by weight)																					
MSW and C&I incineration (non-specialist) - bottom ash	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
MSW and C&I incineration (non-specialist) - fly ash	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
MSW and C&I to MBT	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59
MSW and C&I to RDF	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
MSW and C&I treatment - non-hazardous	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45
MSW and C&I treatment - hazardous	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Hazardous waste recovery	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Recycling residues (% by weight)																					
MSW and C&I recycling	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
MSW and C&I transfer	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
MSW and C&I composting	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
C&D recycling	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Hazardous waste recycling	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Other																					
Metal/ELV facility	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Ignored	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Closed	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Note: All residues are calculated on the amount of waste arising not on the maount of capacity available. This is complaince with the self-sufficiency requirements of PPS10.

DATA_09: TOTAL RESIDUE (Million Tonnes)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Recovery residues (of waste managed):																					
MSW and C&I incineration (non-specialist) - bottom ash	0.044	0.048	0.053	0.058	0.063	0.068	0.079	0.089	0.100	0.110	0.119	0.124	0.128	0.133	0.137	0.142	0.140	0.139	0.137	0.135	0.133
MSW and C&I incineration (non-specialist) - fly ash	0.004	0.005	0.005	0.006	0.006	0.007	0.008	0.009	0.010	0.011	0.012	0.012	0.013	0.013	0.014	0.014	0.014	0.014	0.014	0.013	0.013
MSW and C&I to MBT	0.086	0.095	0.104	0.113	0.123	0.134	0.155	0.175	0.197	0.216	0.235	0.243	0.252	0.261	0.270	0.279	0.276	0.273	0.269	0.265	0.262
MSW and C&I to RDF	0.018	0.019	0.021	0.023	0.025	0.027	0.031	0.036	0.040	0.044	0.048	0.049	0.051	0.053	0.055	0.057	0.056	0.055	0.055	0.054	0.053
MSW and C&I treatment - non-hazardous	0.066	0.073	0.079	0.086	0.094	0.103	0.118	0.134	0.150	0.164	0.179	0.185	0.192	0.199	0.206	0.213	0.211	0.208	0.205	0.202	0.200
MSW and C&I treatment - hazardous	0.007	0.008	0.009	0.010	0.010	0.011	0.013	0.015	0.017	0.018	0.020	0.021	0.021	0.022	0.023	0.024	0.023	0.023	0.023	0.022	0.022
Hazardous waste recovery	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Recycling residues (of waste managed):																					
MSW and C&I recycling and composting	0.078	0.084	0.091	0.098	0.105	0.114	0.121	0.128	0.134	0.140	0.145	0.150	0.154	0.160	0.165	0.170	0.175	0.181	0.186	0.191	0.197
C&D recycling	0.085	0.087	0.088	0.090	0.092	0.094	0.094	0.094	0.094	0.094	0.094	0.098	0.102	0.105	0.109	0.113	0.113	0.113	0.113	0.113	0.113
Hazardous waste recycling	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Note: All residues are calculated on the amount of waste arising not on the maount of capacity available. This is complaince with the self-sufficiency requirements of PPS10.

DATA_10: TOTAL MSW AND C&I RESIDUE FROM RECYCLING SENT TO NON-HAZARDOUS LANDFILL (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Total MSW and C&I recycling and composting residue sent to non-hazardous landfill	0.163	0.171	0.180	0.188	0.198	0.208	0.215	0.222	0.229	0.234	0.239	0.247	0.256	0.265	0.274	0.283	0.288	0.293	0.299	0.304	0.309

DATA_11: TOTAL MSW AND C&I RESIDUE FROM RECOVERY SENT TO NON-HAZARDOUS LANDFILL AND C&D RECYCLING (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
SCENARIO 1 - Assumes all recovery is by 'Non-specialist incineration' (based on total recovery capacity)																					
(1) Total MSW and C&I residue sent to non-hazardous landfill assuming all MSW and C&I recovery by 'Non-specialist incineration'	0.022	0.024	0.026	0.029	0.031	0.034	0.039	0.045	0.050	0.055	0.060	0.062	0.064	0.066	0.069	0.071	0.070	0.069	0.068	0.067	0.067
(1) Total MSW and C&I residue sent to inert landfill assuming all MSW and C&I recovery by 'Non-specialist incineration'	0.022	0.024	0.026	0.029	0.031	0.034	0.039	0.045	0.050	0.055	0.060	0.062	0.064	0.066	0.069	0.071	0.070	0.069	0.068	0.067	0.067
SCENARIO 2 - Assumes all recovery is by 'MBT' (based on total recovery capacity)																					
Total MSW and C&I residue sent to non-hazardous landfill	0.086	0.095	0.104	0.113	0.123	0.134	0.155	0.175	0.197	0.216	0.235	0.243	0.252	0.261	0.270	0.279	0.276	0.273	0.269	0.265	0.262
SCENARIO 3 - Assumes all recovery is by 'RDF' (based on total recovery capacity)																					
Total MSW and C&I residue sent to non-hazardous landfill	0.018	0.019	0.021	0.023	0.025	0.027	0.031	0.036	0.040	0.044	0.048	0.049	0.051	0.053	0.055	0.057	0.056	0.055	0.055	0.054	0.053
SCENARIO 4 - Assumes all recovery is by 'treatment' (based on total recovery capacity)																					
Total MSW and C&I residue sent to non-hazardous landfill	0.066	0.073	0.079	0.086	0.094	0.103	0.118	0.134	0.150	0.164	0.179	0.185	0.192	0.199	0.206	0.213	0.211	0.208	0.205	0.202	0.200

(1) It was assumed that 50% of residue from 'non-specialist incineration' is sent to non-hazardous landfill and 50% is sent to inert landfill. In the original model assumptions developed MEL 50% was assumed to go to C&D recycling, rather than to inert landfi

DATA_12: TONNAGES OF C&D REUSED ON NON-HAZARDOUS AND INERT LANDFILL (Million Tonnes)

(1) C&D reused on landfill sites	39 %
(1) C&D reused on exempt sites	61 %
(1) C&D reused on landfill sites sent to 'non-haz landfill'	30 %
(1) C&D reused on landfill sites sent to 'inert landfill'	70 %

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
c&d	Total C&D reused on non-hazardous landfill	0.079	0.077	0.076	0.075	0.074	0.072	0.074	0.075	0.076	0.077	0.079	0.075	0.072	0.068	0.065	0.061	0.062	0.063	0.064	0.065	0.066
	Total reused C&D on inert landfill	0.184	0.181	0.178	0.175	0.172	0.169	0.172	0.175	0.178	0.181	0.184	0.176	0.168	0.159	0.151	0.143	0.145	0.147	0.149	0.151	0.153

(1) C&D reuse rates based on original model assumptions developed MEL
NOTE: C&D reuse on inert and non-hazardous landfill is not included within the charts because it has been assumed that data supplied by each sub-region has accounted for C&D reuse as an engineering material.

DATA_13: TOTAL MSW AND C&I RESIDUE FROM RECYCLING SENT TO HAZARDOUS LANDFILL (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Total MSW and C&I recycling and composting residue sent to hazardous landfill	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

DATA_14: TOTAL MSW AND C&I RESIDUE FROM RECOVERY SENT TO HAZARDOUS LANDFILL (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
SCENARIO 1 - Assumes all recovery is by 'Non-specialist incineration' (based on total recovery capacity)																					
Total MSW and C&I residue sent to hazardous landfill assuming all MSW and C&I recovery by 'Non-specialist incineration'	0.004	0.005	0.005	0.006	0.006	0.007	0.008	0.009	0.010	0.011	0.012	0.012	0.013	0.013	0.014	0.014	0.014	0.014	0.014	0.013	0.013
SCENARIO 2 - Assumes all recovery is by 'MBT' (based on total recovery capacity)																					
Total MSW and C&I residue sent to hazardous landfill	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SCENARIO 3 - Assumes all recovery is by 'RDF' (based on total recovery capacity)																					
Total MSW and C&I residue sent to hazardous landfill	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SCENARIO 4 - Assumes all recovery is by 'treatment' (based on total recovery capacity)																					
Total MSW and C&I residue sent to hazardous landfill	0.007	0.008	0.009	0.010	0.010	0.011	0.013	0.015	0.017	0.018	0.020	0.021	0.021	0.022	0.023	0.024	0.023	0.023	0.023	0.022	0.022

NOTE: This element of the model is redundant. There is currently no hazardous waste capacity figures to generate a chart of managed waste versus available capacity.

DATA_15: TOTAL HAZARDOUS WASTE RESIDUE FROM RECOVERY AND RECYCLING SENT TO HAZARDOUS LANDFILL (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Total hazardous waste recycling and recovery residue sent to hazardous landfill	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Surrey

CHART_06

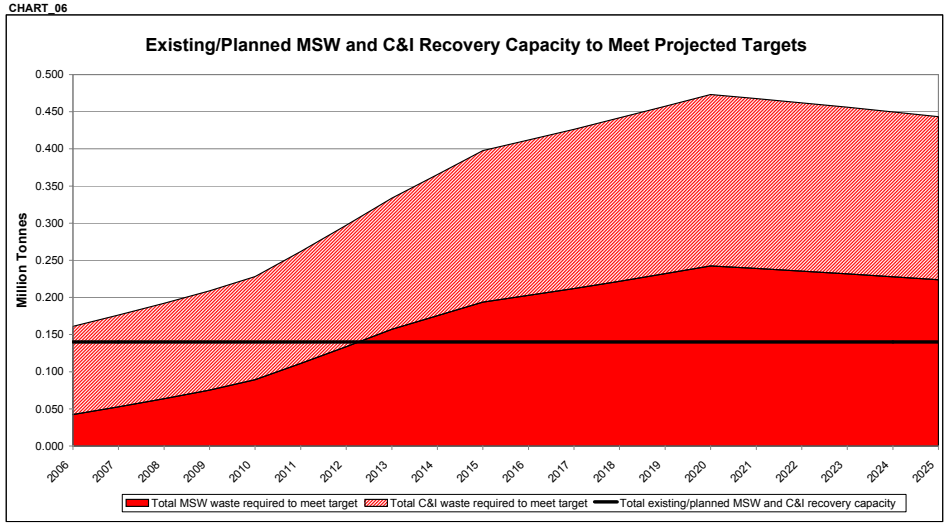


CHART_07

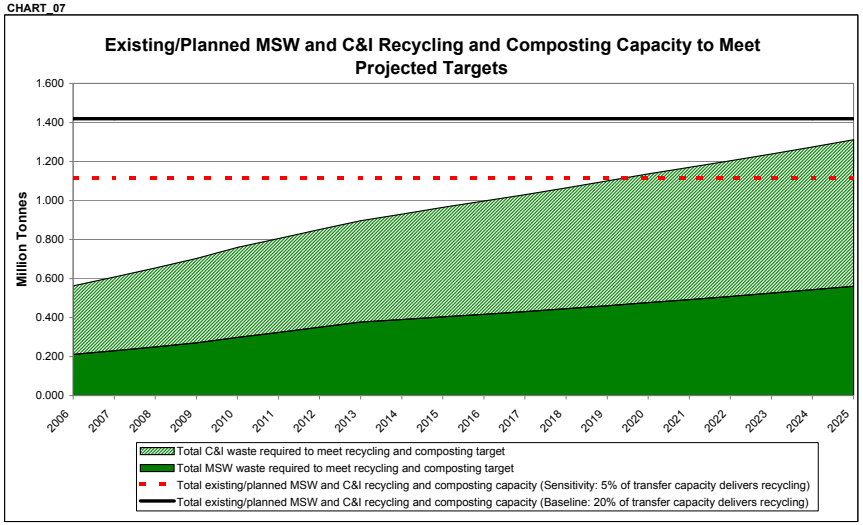
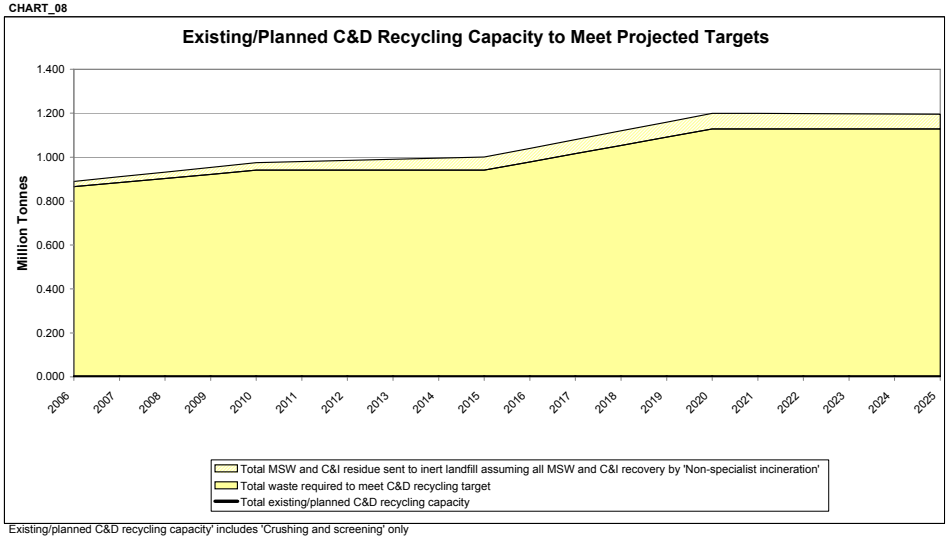


CHART_08



Existing/planned C&D recycling capacity' includes 'Crushing and screening' only
NOTE: This capacity does not represent the quantity of material that is recycled.
NOTE: Residue from MSW and C&I recovery is based on existing/planned capacity (not waste tonnage to meet recovery target)

Surrey

CHART_09

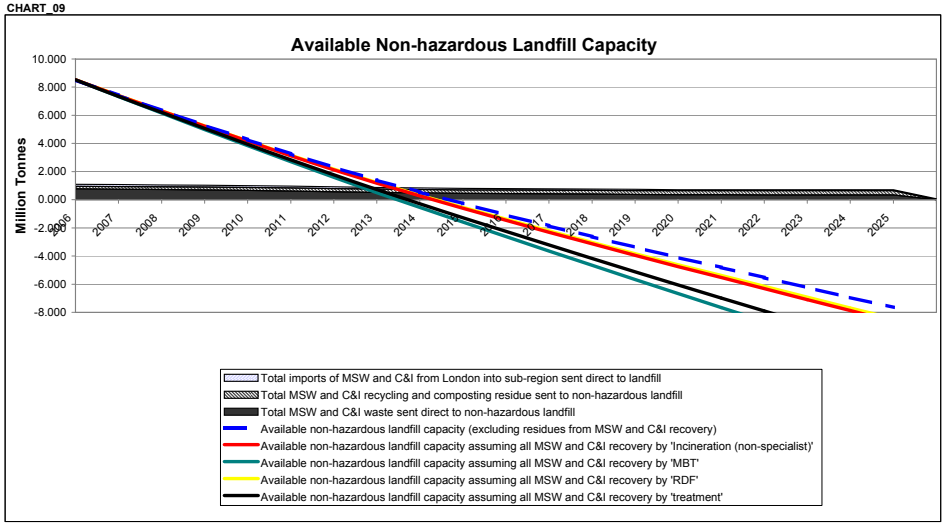
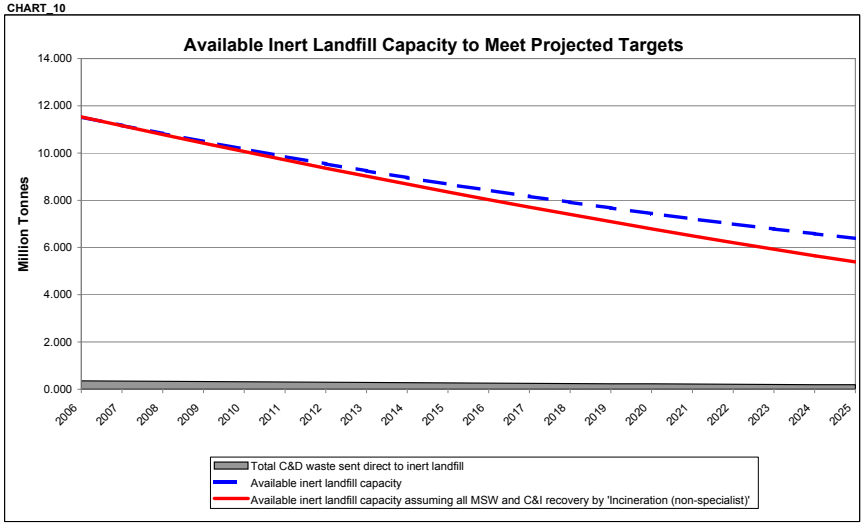


CHART_10



NOTE: The graph assumes that the baseline capacity for non-hazardous landfill has accounted for C&D reuse as a landfill engineering material.

West Sussex

SUMMARY DATA AND RESULTS FOR WEST SUSSEX

MANAGED WASTE USED TO GENERATE RESULTS (Million Tonnes)	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	0.490	0.502	0.515	0.528	0.541	0.552	0.563	0.574	0.585	0.597	0.606	0.615	0.624	0.634	0.643	0.653	0.663	0.673	0.683	0.693
msw - imports from london that are sent direct to non-hazardous landfill	0.062	0.061	0.059	0.057	0.056	0.053	0.050	0.046	0.043	0.040	0.039	0.037	0.035	0.034	0.032	0.031	0.031	0.030	0.029	0.029
c&i	0.876	0.897	0.920	0.943	0.966	0.986	1.006	1.026	1.046	1.067	1.083	1.099	1.116	1.133	1.150	1.161	1.173	1.184	1.196	1.208
c&i - imports from london that are sent direct to non-hazardous landfill	0.111	0.108	0.105	0.103	0.100	0.094	0.089	0.083	0.077	0.072	0.069	0.066	0.063	0.060	0.057	0.056	0.054	0.053	0.051	0.050
c&d	1.302	1.302	1.302	1.302	1.302	1.302	1.302	1.302	1.302	1.302	1.302	1.302	1.302	1.302	1.302	1.302	1.302	1.302	1.302	1.302
hazardous	0.026	0.027	0.027	0.028	0.029	0.029	0.030	0.030	0.031	0.032	0.032	0.033	0.033	0.034	0.034	0.034	0.035	0.035	0.035	0.036

WASTE STREAM TONNAGES TO MEET TARGETS (Million Tonnes)		2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	LATS shortfall (how much extra is landfilled above LATS target)	-0.052	-0.045	-0.035	-0.021	-0.003	*0.004*	*0.010*	*0.016*	*0.006*	-0.004	-0.005	-0.005	-0.007	-0.008	-0.009	-0.009	-0.009	-0.009	-0.009	-0.008
	Recycling and composting target	0.157	0.171	0.185	0.200	0.216	0.235	0.255	0.275	0.285	0.299	0.309	0.320	0.331	0.342	0.354	0.366	0.378	0.390	0.403	0.416
	Recovery target	0.031	0.039	0.047	0.056	0.065	0.080	0.097	0.115	0.128	0.143	0.150	0.157	0.165	0.172	0.180	0.178	0.175	0.172	0.169	0.166
	Non-hazardous landfill	0.302	0.292	0.282	0.271	0.260	0.237	0.210	0.184	0.171	0.155	0.147	0.138	0.129	0.119	0.109	0.110	0.110	0.110	0.111	0.111
c&i	Recycling and composting target	0.368	0.395	0.423	0.453	0.483	0.503	0.523	0.544	0.565	0.587	0.607	0.627	0.647	0.668	0.690	0.708	0.727	0.746	0.766	0.785
	Recovery target	0.124	0.129	0.134	0.140	0.145	0.158	0.171	0.185	0.199	0.213	0.219	0.224	0.230	0.236	0.241	0.239	0.237	0.235	0.232	0.230
	Non-hazardous landfill	0.384	0.373	0.362	0.351	0.338	0.325	0.312	0.297	0.282	0.267	0.258	0.248	0.239	0.229	0.218	0.214	0.209	0.204	0.199	0.193
c&d	Recycling target	0.599	0.612	0.625	0.638	0.651	0.651	0.651	0.651	0.651	0.651	0.677	0.703	0.729	0.755	0.781	0.781	0.781	0.781	0.781	0.781
	Recovery target	0.461	0.453	0.445	0.437	0.430	0.437	0.445	0.453	0.461	0.469	0.448	0.427	0.406	0.385	0.365	0.370	0.375	0.380	0.385	0.391
	Inert landfill	0.242	0.237	0.232	0.227	0.221	0.214	0.206	0.198	0.190	0.182	0.177	0.172	0.167	0.161	0.156	0.151	0.146	0.141	0.135	0.130
hazardous	Hazardous waste	0.026	0.027	0.027	0.028	0.029	0.029	0.030	0.030	0.031	0.032	0.032	0.033	0.033	0.034	0.034	0.034	0.035	0.035	0.035	0.036

Note: If there is a LATS shortfall, denoted by a positive number, (ie insufficient allowance to landfill non-diverted waste) then the model assumes that this extra waste is recycled/composted and recovered at the same ratio as the regional targets for recycling/composting and recovery for that year.

EXISTING/PLANNED CAPACITY FOR RECYCLING, RECOVERY AND LANDFILLING AND TOTAL WASTE TONNAGES TO EACH DISPOSAL ROUTE (Million Tonnes)		2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
MSW and C&I recovery																					
	Total existing/planned MSW and C&I recovery capacity	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141
	Surplus/deficit capacity	-0.014	-0.027	-0.040	-0.054	-0.068	-0.097	-0.127	-0.158	-0.186	-0.215	-0.228	-0.240	-0.253	-0.266	-0.280	-0.275	-0.270	-0.265	-0.260	-0.254
MSW and C&I recycling and composting																					
	Total existing/planned MSW and C&I recycling and composting capacity (Baseline: 20% of transfer capacity delivers recycling)	0.214	0.214	0.214	0.214	0.214	0.214	0.214	0.214	0.214	0.214	0.214	0.214	0.214	0.214	0.214	0.214	0.214	0.214	0.214	0.214
	Total existing/planned MSW and C&I recycling and composting capacity (Sensitivity: 5% of transfer capacity delivers recycling)	0.078	0.078	0.078	0.078	0.078	0.078	0.078	0.078	0.078	0.078	0.078	0.078	0.078	0.078	0.078	0.078	0.078	0.078	0.078	0.078
	Surplus/deficit capacity (Baseline: 20% of transfer capacity delivers recycling)	-0.311	-0.352	-0.395	-0.439	-0.486	-0.524	-0.564	-0.605	-0.637	-0.672	-0.702	-0.733	-0.764	-0.797	-0.830	-0.860	-0.891	-0.923	-0.955	-0.987
	Surplus/deficit capacity (Sensitivity: 5% of transfer capacity delivers recycling)	-0.446	-0.487	-0.530	-0.575	-0.621	-0.659	-0.700	-0.741	-0.772	-0.807	-0.837	-0.868	-0.900	-0.932	-0.965	-0.996	-1.027	-1.058	-1.090	-1.123
C&D recycling																					
	Total existing/planned C&D recycling capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Surplus/deficit capacity	-0.599	-0.612	-0.625	-0.638	-0.651	-0.651	-0.651	-0.651	-0.651	-0.651	-0.677	-0.703	-0.729	-0.755	-0.781	-0.781	-0.781	-0.781	-0.781	-0.781
C&D recovery																					
	REGIONAL total existing/planned C&D recovery capacity	1.794	1.710	1.627	1.544	1.460	1.439	1.418	1.398	1.377	1.356	1.325	1.293	1.262	1.231	1.199	1.220	1.241	1.262	1.283	1.304
	Surplus/deficit capacity	1.333	1.257	1.182	1.106	1.030	1.002	0.973	0.944	0.916	0.887	0.877	0.866	0.856	0.845	0.835	0.850	0.866	0.882	0.897	0.913
Hazardous waste recycling																					
	Total existing/planned hazardous waste recycling capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Surplus/deficit capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hazardous waste recovery																					
	Total existing/planned hazardous waste recovery capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Surplus/deficit capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Non-hazardous landfill																					
	Available non-hazardous landfill capacity (excluding residues from MSW and C&I recovery)	2.437	1.440	0.459	-0.503	-1.447	-2.370	-3.255	-4.097	-4.895	-5.663	-6.395	-7.111	-7.813	-8.498	-9.166	-9.818	-10.467	-11.115	-11.760	-12.403
	Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'Incineration (non-specialist)'	2.437	1.416	0.411	-0.579	-1.552	-2.507	-3.427	-4.309	-5.153	-5.969	-6.755	-7.527	-8.286	-9.030	-9.760	-10.474	-11.186	-11.895	-12.602	-13.305
	Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'MBT'	2.437	1.348	0.268	-0.802	-1.861	-2.908	-3.933	-4.933	-5.908	-6.869	-7.811	-8.746	-9.672	-10.590	-11.500	-12.399	-13.295	-14.185	-15.070	-15.951
	Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'RDF'	2.437	1.421	0.420	-0.564	-1.531	-2.480	-3.393	-4.267	-5.101	-5.908	-6.683	-7.444	-8.191	-8.924	-9.641	-10.343	-11.042	-11.739	-12.433	-13.125
	Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'treatment'	2.437	1.370	0.314	-0.731	-1.763	-2.780	-3.772	-4.735	-5.668	-6.582	-7.475	-8.358	-9.231	-10.094	-10.946	-11.787	-12.624	-13.456	-14.285	-15.109
Inert landfill																					
	Available inert landfill capacity	0.000	-0.242	-0.479	-0.711	-0.937	-1.159	-1.372	-1.578	-1.776	-1.966	-2.148	-2.325	-2.497	-2.664	-2.825	-2.982	-3.133	-3.278	-3.419	-3.554
	Available inert landfill capacity assuming all MSW and C&I recovery by 'Incineration (non-specialist)'	0.000	-0.266	-0.528	-0.787	-1.043	-1.295	-1.545	-1.791	-2.033	-2.273	-2.508	-2.741	-2.970	-3.196	-3.418	-3.638	-3.851	-4.059	-4.261	-4.456
Hazardous landfill																					
	Available hazardous landfill capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Note: The model does not contain data for the management of hazardous waste.

DATA_01: ARISINGS AND GROWTH RATES OF MSW, C&I AND HAZARDOUS WASTE (Million Tonnes)		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	Arisings of MSW in baseline year																					
	(1) Forecast regional level growth rate of MSW - per year (%)	3.0%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%
	(1) Forecast regional level growth rate of MSW - cumulative (%)	103%	106%	108%	111%	114%	117%	119%	121%	124%	126%	129%	131%	133%	135%	137%	139%	141%	143%	145%	147%	149%
	Total arisings of MSW using regional growth forecasts	0.478	0.490	0.502	0.515	0.528	0.541	0.552	0.563	0.574	0.585	0.597	0.606	0.615	0.624	0.634	0.643	0.653	0.663	0.673	0.683	0.693
	(1) Forecast sub-regional growth rate of MSW - per year (%)	3.0%	3.0%	3.0%	2.0%	2.0%	2.0%	2.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%
	(1) Forecast sub-regional level growth rate of MSW - cumulative (%)	103%	106%	109%	111%	114%	116%	118%	119%	121%	122%	123%	124%	126%	127%	128%	129%	131%	132%	133%	135%	136%
	Total arisings of MSW using sub-regional growth forecasts	0.478	0.492	0.507	0.517	0.528	0.538	0.549	0.554	0.560	0.565	0.571	0.577	0.583	0.588	0.594	0.600	0.606	0.612	0.618	0.625	0.631
c&i	Arisings of C&I in baseline year																					
	(1) Forecast regional level growth rate of C&I - per year (%)	3.3%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.0%	1.0%	1.0%	1.0%	1.0%
	(1) Forecast regional level growth rate of C&I - cumulative (%)	107%	109%	112%	115%	118%	121%	123%	126%	128%	131%	133%	135%	137%	139%	141%	144%	145%	146%	148%	149%	151%
	Total arisings of C&I using regional growth forecasts	0.854	0.876	0.897	0.920	0.943	0.966	0.986	1.006	1.026	1.046	1.067	1.083	1.099	1.116	1.133	1.150	1.161	1.173	1.184	1.196	1.208
	(1) Forecast sub-regional level growth rate of C&I - per year (%)	1.5%	1.5%	1.0%	1.0%	1.0%	0.5%	0.5%	0.5%	0.5%	0.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	(1) Forecast sub-regional level growth rate of C&I - cumulative (%)	103%	105%	106%	107%	108%	108%	109%	109%	110%	110%	110%	110%	110%	110%	110%	110%	110%	110%	110%	110%	110%
	Total arisings of C&I using sub-regional growth forecasts	0.825	0.838	0.846	0.854	0.863	0.867	0.872	0.876	0.880	0.885	0.885	0.885	0.885	0.885	0.885	0.885	0.885	0.885	0.885	0.885	0.885
hazardous	Arisings of hazardous waste in baseline year																					
	(2) Forecast regional level growth rate of hazardous waste - per year (%)	3.3%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.0%	1.0%	1.0%	1.0%	1.0%
	Forecast regional level growth rate of hazardous waste - cumulative (%)	107%	109%	112%	115%	118%	121%	123%	126%	128%	131%	133%	135%	137%	139%	141%	144%	145%	146%	148%	149%	151%
	Total arisings of hazardous waste	0.025	0.026	0.027	0.027	0.028	0.029	0.029	0.030	0.030	0.031	0.032	0.032	0.033	0.033	0.034	0.034	0.034	0.035	0.035	0.035	0.036
	(2) Forecast sub-regional level growth rate of hazardous waste - per year (%)	1.5%	1.5%	1.0%	1.0%	1.0%	0.5%	0.5%	0.5%	0.5%	0.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Forecast sub regional level growth rate of hazardous waste - cumulative (%)	103%	105%	106%	107%	108%	108%	109%	109%	110%	110%	110%	110%	110%	110%	110%	110%	110%	110%	110%	110%	110%
	Total arisings of hazardous waste	0.024	0.025	0.025	0.025	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026
c&d	Total managed C&D in baseline year																					
	(3) Forecast regional-level growth rate of managed C&D - per year (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Forecast regional-level growth rate of managed C&D - cumulative (%)	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
	(3) Total managed of C&D for the sub-region	1.302	1.302	1.302	1.302	1.302	1.302	1.302	1.302	1.302	1.302	1.302	1.302	1.302	1.302	1.302	1.302	1.302	1.302	1.302	1.302	1.302

(1) Figures from SEERA updated waste capacity model by ERM in 2005.
(2) Baseline year of hazardous waste arisings is 2003 from EA Hazardous Waste Interrogator. www.environment-agency.gov.uk/apps/wastesurvey2/. ERM has assumed that growth in hazardous waste is equal to C&I waste.
(3) These data represent managed C&D waste in the sub-region, including all intra-regional and inter-regional movements. Growth is assumed to be zero from the orginal MEL study and updated modeted by ERM in 2005.
NOTE: C&D waste is not included in arisings because this was taken from survey data by Symonds 2001 which gave values for managed C&D waste.

West Sussex

Figure in blue represent data supplied by each sub-region for the new '2006 SEERA Capacity and Need Model'
Figures in orange represent managed waste that are used by the model to calculate results. These can be adjusted for different scenarios.

DATA_02: INTER REGIONAL MOVEMENTS OF MSW and C&I (Million Tonnes)		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw and c&i	Regional level imports of MSW and C&I waste into the SE region from London	1.76	1.716	1.672	1.628	1.584	1.54	1.454	1.368	1.282	1.196	1.11	1.064	1.018	0.972	0.926	0.88	0.86	0.84	0.82	0.8	0.78
	Proportion of regional MSW and C&I imports that go to the sub-region (%)	10.1%	10.1%	10.1%	10.1%	10.1%	10.1%	10.1%	10.1%	10.1%	10.1%	10.1%	10.1%	10.1%	10.1%	10.1%	10.1%	10.1%	10.1%	10.1%	10.1%	10.1%
	(1) Total imports of MSW and C&I from London into sub-region sent direct to landfill	0.178	0.173	0.169	0.164	0.160	0.156	0.147	0.138	0.129	0.121	0.112	0.107	0.103	0.098	0.094	0.089	0.087	0.085	0.083	0.081	0.079
msw	Proportion of total MSW and C&I imports that are MSW (%) - REGIONAL GROWTH FORECAST	36%	36%	36%	36%	36%	36%	36%	36%	36%	36%	36%	36%	36%	36%	36%	36%	36%	36%	36%	36%	36%
	Total imports of MSW into the sub-region from London - REGIONAL GROWTH FORECAST	0.064	0.062	0.061	0.059	0.057	0.056	0.053	0.050	0.046	0.043	0.040	0.039	0.037	0.035	0.034	0.032	0.031	0.031	0.030	0.029	0.029
	Proportion of total MSW and C&I imports that are MSW (%) - SUB-REGIONAL GROWTH FORECAST	37%	37%	37%	38%	38%	38%	39%	39%	39%	39%	39%	39%	40%	40%	40%	40%	41%	41%	41%	41%	42%
	Total imports of MSW into the sub-region from London - SUB-REGIONAL GROWTH FORECAST	0.065	0.064	0.063	0.062	0.061	0.060	0.057	0.054	0.050	0.047	0.044	0.042	0.041	0.039	0.038	0.036	0.035	0.035	0.034	0.033	0.033
c&i	Proportion of total MSW and C&I imports that are C&I (%) - REGIONAL GROWTH FORECAST	64%	64%	64%	64%	64%	64%	64%	64%	64%	64%	64%	64%	64%	64%	64%	64%	64%	64%	64%	64%	64%
	Total imports of C&I into the sub-region from London - REGIONAL GROWTH FORECAST	0.114	0.111	0.108	0.105	0.103	0.100	0.094	0.089	0.083	0.077	0.072	0.069	0.066	0.063	0.060	0.057	0.056	0.054	0.053	0.051	0.050
	Proportion of total MSW and C&I imports that are C&I (%) - SUB-REGIONAL GROWTH FORECAST	63%	63%	63%	62%	62%	62%	61%	61%	61%	61%	61%	61%	60%	60%	60%	60%	59%	59%	59%	59%	58%
	Total imports of C&I into the sub-region from London - SUB-REGIONAL GROWTH FORECAST	0.113	0.109	0.106	0.102	0.099	0.096	0.090	0.085	0.079	0.074	0.068	0.065	0.062	0.059	0.056	0.053	0.052	0.050	0.049	0.047	0.046

(1) Intra-regional and inter-regional movements have been excluded for MSW and C&I waste due to self-sufficiency requirements under PPS10, except for inter-regional movements from London into the sub-region. Apportionment from Policy W3 in the Plan – downloa
Note: Only a figure is available for total combined imports of MSW and C&I waste. ERM has assumed that imports of the seperate waste streams of MSW and C&I was split according to tonnage arisings of MSW and C&I in the sub-region.

DATA_03: MANAGED WASTE USED TO GENERATE RESULTS (Million Tonnes)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	0.478	0.490	0.502	0.515	0.528	0.541	0.552	0.563	0.574	0.585	0.597	0.606	0.615	0.624	0.634	0.643	0.653	0.663	0.673	0.683	0.693
msw - imports from london that are sent direct to non-hazardous landfill	0.064	0.062	0.061	0.059	0.057	0.056	0.053	0.050	0.046	0.043	0.040	0.039	0.037	0.035	0.034	0.032	0.031	0.031	0.030	0.029	0.029
c&i	0.854	0.876	0.897	0.920	0.943	0.966	0.986	1.006	1.026	1.046	1.067	1.083	1.099	1.116	1.133	1.150	1.161	1.173	1.184	1.196	1.208
c&i - imports from london that are sent direct to non-hazardous landfill	0.114	0.111	0.108	0.105	0.103	0.100	0.094	0.089	0.083	0.077	0.072	0.069	0.066	0.063	0.060	0.057	0.056	0.054	0.053	0.051	0.050
c&d	1.302	1.302	1.302	1.302	1.302	1.302	1.302	1.302	1.302	1.302	1.302	1.302	1.302	1.302	1.302	1.302	1.302	1.302	1.302	1.302	1.302
hazardous	0.025	0.026	0.027	0.027	0.028	0.029	0.029	0.030	0.030	0.031	0.032	0.032	0.033	0.033	0.034	0.034	0.034	0.035	0.035	0.035	0.036

DATA_04: TARGETS (% or Million Tonnes)		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	(1) landfill (Mt)	0.266	0.257	0.244	0.227	0.205	0.180	0.160	0.140	0.120	0.115	0.109	0.104	0.099	0.094	0.089	0.084	0.084	0.084	0.084	0.084	0.084
	recovered (%)	5	6.4	7.8	9.2	10.6	12	14.4	16.8	19.2	21.6	24	24.8	25.6	26.4	27.2	28	27.2	26.4	25.6	24.8	24
	recycled and composted (%)	30	32.0	34.0	36.0	38.0	40	42.0	44.0	46.0	48.0	50	51.0	52.0	53.0	54.0	55	56.0	57.0	58.0	59.0	60
c&i	recovered (%)	14	14.2	14.4	14.6	14.8	15	16.0	17.0	18.0	19.0	20	20.2	20.4	20.6	20.8	21	20.6	20.2	19.8	19.4	19
	recycled and composted (%)	40	42.0	44.0	46.0	48.0	50	51.0	52.0	53.0	54.0	55	56.0	57.0	58.0	59.0	60	61.0	62.0	63.0	64.0	65
c&d	recovered (%)	36	35.4	34.8	34.2	33.6	33	33.6	34.2	34.8	35.4	36	34.4	32.8	31.2	29.6	28	28.4	28.8	29.2	29.6	30
	recycled (%)	45	46.0	47.0	48.0	49.0	50	50.0	50.0	50.0	50.0	50	52.0	54.0	56.0	58.0	60	60.0	60.0	60.0	60.0	60
hazardous	landfill (%)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	recovered (%)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	recycled (%)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

(1) ERM has assumed that the LATS target allowance remains constant at the 2020 value for the years beyond 2020

DATA_05: WASTE STREAM TONNAGES TO MEET TARGETS (Million Tonnes)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025

This first section of DATA_03 calculates if there is a LATS shortfall or suplus in each year. If there is a LATS shortfall (ie insufficient allowance to landfill non-diverted waste) then the model assumes that this extra waste is recycled/composted and r

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	Total MSW to be recovered and recycled/composted to meet target	0.167	0.188	0.210	0.233	0.256	0.281	0.311	0.342	0.374	0.407	0.442	0.459	0.477	0.496	0.515	0.534	0.543	0.553	0.562	0.572	0.582
	Total MSW not-diverted by targets	0.311	0.302	0.292	0.282	0.271	0.260	0.240	0.221	0.200	0.178	0.155	0.147	0.138	0.129	0.119	0.109	0.110	0.110	0.110	0.111	0.111
	Percentage of MSW that is biodegradable (% by weight)	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68
	Total BMW not-diverted by targets	0.211	0.205	0.199	0.192	0.184	0.176	0.164	0.150	0.136	0.121	0.106	0.100	0.094	0.087	0.081	0.074	0.075	0.075	0.075	0.075	0.075
	LATS shortfall (how much extra is landfilled above LATS target)	-0.054	-0.052	-0.045	-0.035	-0.021	-0.003	0.004	0.010	0.016	0.006	-0.004	-0.005	-0.005	-0.007	-0.008	-0.009	-0.009	-0.009	-0.009	-0.009	-0.008
	Ratio of 'recovered' to 'recycled/composted' for target (%)	14%	17%	19%	20%	22%	23%	26%	28%	29%	31%	32%	33%	33%	33%	33%	34%	33%	32%	31%	30%	29%
	Extra MSW 'recovery' needed due to LATS shortfall	0.000	0.000	0.000	0.000	0.000	0.000	*0.001*	*0.003*	*0.005*	*0.002*	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Extra MSW 'recycling/composting' needed due to LATS shortfall	0.000	0.000	0.000	0.000	0.000	0.000	*0.003*	*0.007*	*0.011*	*0.004*	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

The section below in DATA_03 shows the tonnages by waste to meet targets.

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	Recycling and composting target	0.143	0.157	0.171	0.185	0.200	0.216	0.235	0.255	0.275	0.285	0.299	0.309	0.320	0.331	0.342	0.354	0.366	0.378	0.390	0.403	0.416
	Recovery target	0.024	0.031	0.039	0.047	0.056	0.065	0.080	0.097	0.115	0.128	0.143	0.150	0.157	0.165	0.172	0.180	0.178	0.175	0.172	0.169	0.166
	Non-hazardous landfill	0.311	0.302	0.292	0.282	0.271	0.260	0.237	0.210	0.184	0.171	0.155	0.147	0.138	0.129	0.119	0.109	0.110	0.110	0.110	0.111	0.111
	CHECK COUNTER (should be zero)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
c&i	Recycling and composting target	0.342	0.368	0.395	0.423	0.453	0.483	0.503	0.523	0.544	0.565	0.587	0.607	0.627	0.647	0.668	0.690	0.708	0.727	0.746	0.766	0.785
	Recovery target	0.120	0.124	0.129	0.134	0.140	0.145	0.158	0.171	0.185	0.199	0.213	0.219	0.224	0.230	0.236	0.241	0.239	0.237	0.235	0.232	0.230
	Non-hazardous landfill	0.393	0.384	0.373	0.362	0.351	0.338	0.325	0.312	0.297	0.282	0.267	0.258	0.248	0.239	0.229	0.218	0.214	0.209	0.204	0.199	0.193
	CHECK COUNTER (should be zero)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

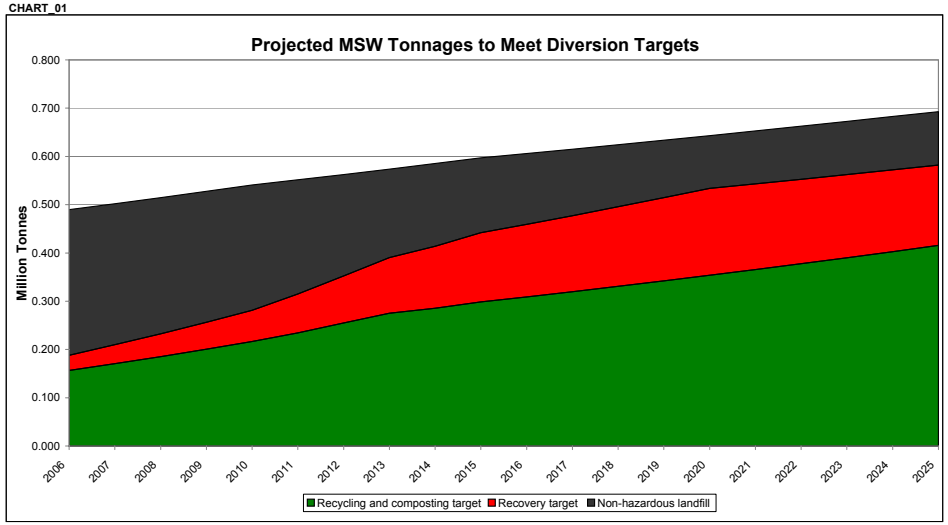
		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
c&d	Recycling target	0.586	0.599	0.612	0.625	0.638	0.651	0.651	0.651	0.651	0.651	0.651	0.677	0.703	0.729	0.755	0.781	0.781	0.781	0.781	0.781	0.781
	Recovery target	0.469	0.461	0.453	0.445	0.437	0.430	0.437	0.445	0.453	0.461	0.469	0.448	0.427	0.406	0.385	0.365	0.370	0.375	0.380	0.385	0.391
	Inert landfill	0.247	0.242	0.237	0.232	0.227	0.221	0.214	0.206	0.198	0.190	0.182	0.177	0.172	0.167	0.161	0.156	0.151	0.146	0.141	0.135	0.130
	CHECK COUNTER (should be zero)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
hazardous	Hazardous waste	0.025	0.026	0.027	0.027	0.028	0.029	0.029	0.030	0.030	0.031	0.032	0.032	0.033	0.033	0.034	0.034	0.034	0.035	0.035	0.035	0.036

DATA_06: TOTAL WASTE TONNAGES TO MEET TARGETS (Million Tonnes)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
MSW and C&I recycling and composting target	0.485	0.525	0.566	0.608	0.653	0.700	0.737	0.778	0.819	0.850	0.885	0.916	0.946	0.978	1.010	1.043	1.074	1.105	1.136	1.168	1.201
C&D recycling target	0.586	0.599	0.612	0.625	0.638	0.651	0.651	0.651	0.651	0.651	0.651	0.677	0.703	0.729	0.755	0.781	0.781	0.781	0.781	0.781	0.781
MSW and C&I recovery target	0.143	0.156	0.168	0.182	0.195	0.210	0.238	0.268	0.300	0.327	0.357	0.369	0.382	0.395	0.408	0.421	0.417	0.412	0.407	0.401	0.396
C&D recovery target	0.469	0.461	0.453	0.445	0.437	0.430	0.437	0.445	0.453	0.461	0.469	0.448	0.427	0.406	0.385	0.365	0.370	0.375	0.380	0.385	0.391
Non-hazardous landfill	0.704	0.685	0.666	0.644	0.622	0.598	0.562	0.522	0.481	0.454	0.422	0.404	0.386	0.367	0.348	0.328	0.323	0.319	0.314	0.309	0.304
Inert landfill	0.247	0.242	0.237	0.232	0.227	0.221	0.214	0.206	0.198	0.190	0.182	0.177	0.172	0.167	0.161	0.156	0.151	0.146	0.141	0.135	0.130
Hazardous waste	0.025	0.026	0.027	0.027	0.028	0.029	0.029	0.030	0.030	0.031	0.032	0.032	0.033	0.033	0.034	0.034	0.034	0.035	0.035	0.035	0.036

West Sussex

CHART_01



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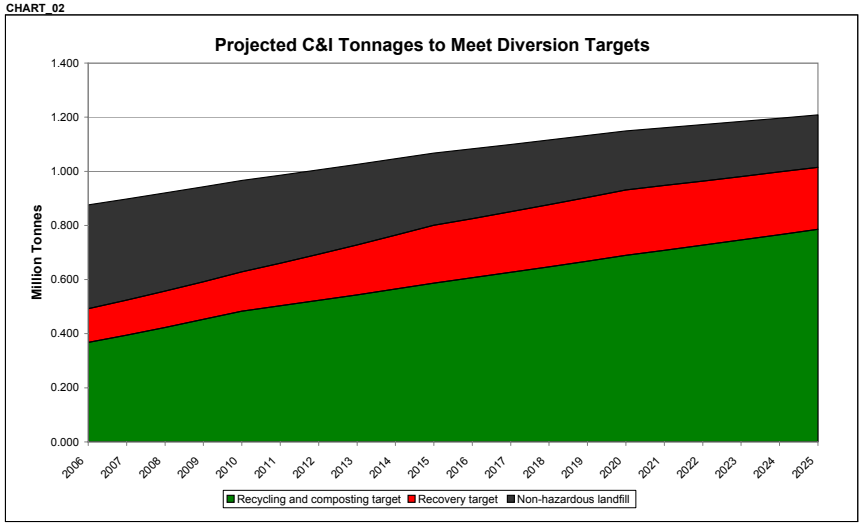

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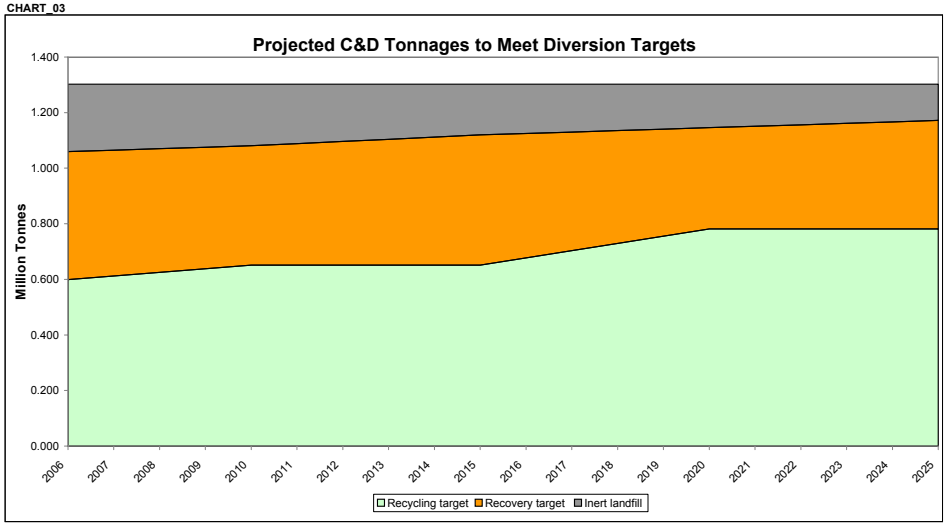

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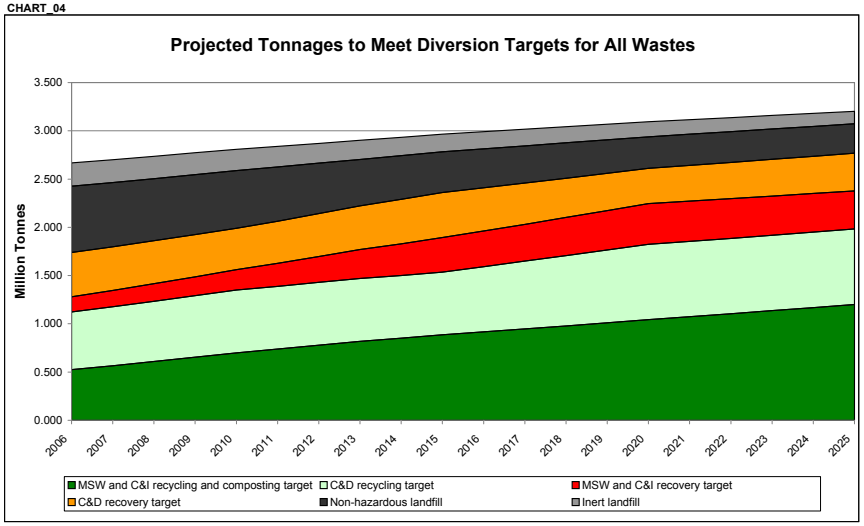
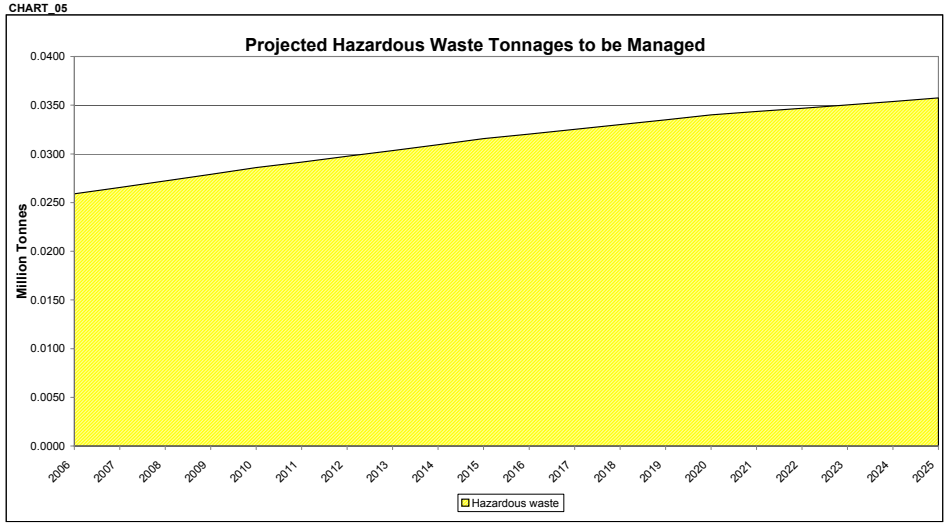


West Sussex

CHART_05



DATA_07: EXISTING/PLANNED CAPACITY FOR RECYCLING, RECOVERY AND LANDFILLING AND TOTAL WASTE TONNAGES TO EACH DISPOSAL ROUTE (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
MSW and C&I recovery																					
MSW and C&I incineration (non-specialist)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
MSW and C&I treatment	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141
Total existing/planned MSW and C&I recovery capacity	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141	0.141
Total MSW waste required to meet target	0.024	0.031	0.039	0.047	0.056	0.065	0.080	0.097	0.115	0.128	0.143	0.150	0.157	0.165	0.172	0.180	0.178	0.175	0.172	0.169	0.166
Total C&I waste required to meet target	0.120	0.124	0.129	0.134	0.140	0.145	0.158	0.171	0.185	0.199	0.213	0.219	0.224	0.230	0.236	0.241	0.239	0.237	0.235	0.232	0.230
Surplus/deficit capacity	-0.002	-0.014	-0.027	-0.040	-0.054	-0.068	-0.097	-0.127	-0.158	-0.186	-0.215	-0.228	-0.240	-0.253	-0.266	-0.280	-0.275	-0.270	-0.265	-0.260	-0.254
MSW and C&I recycling and composting																					
MSW and C&I recycling	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
MSW and C&I transfer	0.903	0.903	0.903	0.903	0.903	0.903	0.903	0.903	0.903	0.903	0.903	0.903	0.903	0.903	0.903	0.903	0.903	0.903	0.903	0.903	0.903
Total existing/planned MSW and C&I composting capacity	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033
(1) Total existing/planned MSW and C&I recycling and composting capacity (Baseline: 20% of transfer capacity delivers recycling)	0.214	0.214	0.214	0.214	0.214	0.214	0.214	0.214	0.214	0.214	0.214	0.214	0.214	0.214	0.214	0.214	0.214	0.214	0.214	0.214	0.214
(2) Total existing/planned MSW and C&I recycling and composting capacity (Sensitivity: 5% of transfer capacity delivers recycling)	0.078	0.078	0.078	0.078	0.078	0.078	0.078	0.078	0.078	0.078	0.078	0.078	0.078	0.078	0.078	0.078	0.078	0.078	0.078	0.078	0.078
Total MSW waste required to meet recycling and composting target	0.143	0.157	0.171	0.185	0.200	0.216	0.235	0.255	0.275	0.285	0.299	0.309	0.320	0.331	0.342	0.354	0.366	0.378	0.390	0.403	0.416
Total C&I waste required to meet recycling and composting target	0.342	0.368	0.395	0.423	0.453	0.483	0.503	0.523	0.544	0.565	0.587	0.607	0.627	0.647	0.668	0.690	0.708	0.727	0.746	0.766	0.785
Surplus/deficit capacity (Baseline: 20% of transfer capacity delivers recycling)	-0.271	-0.311	-0.352	-0.395	-0.439	-0.486	-0.524	-0.564	-0.605	-0.637	-0.672	-0.702	-0.733	-0.764	-0.797	-0.830	-0.860	-0.891	-0.923	-0.955	-0.987
Surplus/deficit capacity (Sensitivity: 5% of transfer capacity delivers recycling)	-0.407	-0.446	-0.487	-0.530	-0.575	-0.621	-0.659	-0.700	-0.741	-0.772	-0.807	-0.837	-0.868	-0.900	-0.932	-0.965	-0.996	-1.027	-1.058	-1.090	-1.123
C&D recycling																					
Total existing/planned C&D recycling capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total waste required to meet C&D recycling target	0.586	0.599	0.612	0.625	0.638	0.651	0.651	0.651	0.651	0.651	0.651	0.677	0.703	0.729	0.755	0.781	0.781	0.781	0.781	0.781	0.781
Surplus/deficit capacity	-0.586	-0.599	-0.612	-0.625	-0.638	-0.651	-0.651	-0.651	-0.651	-0.651	-0.651	-0.677	-0.703	-0.729	-0.755	-0.781	-0.781	-0.781	-0.781	-0.781	-0.781
C&D recovery																					
(3) REGIONAL total existing/planned C&D recovery capacity	1.877	1.794	1.710	1.627	1.544	1.460	1.439	1.418	1.398	1.377	1.356	1.325	1.293	1.262	1.231	1.199	1.220	1.241	1.262	1.283	1.304
Sub-regional total waste required to meet C&D recovery target	0.469	0.461	0.453	0.445	0.437	0.430	0.437	0.445	0.453	0.461	0.469	0.448	0.427	0.406	0.385	0.365	0.370	0.375	0.380	0.385	0.391
Surplus/deficit capacity	1.409	1.333	1.257	1.182	1.106	1.030	1.002	0.973	0.944	0.916	0.887	0.877	0.866	0.856	0.845	0.835	0.850	0.866	0.882	0.897	0.913
Hazardous waste recycling																					
Total existing/planned hazardous waste recycling capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total hazardous waste to be recycled	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Surplus/deficit capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hazardous waste recovery																					
Total existing/planned hazardous waste recovery capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total hazardous waste to be recovered	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Surplus/deficit capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Non-hazardous landfill																					
Available non-hazardous landfill capacity (excluding residues from MSW and C&I recovery)		2.437	1.440	0.459	-0.503	-1.447	-2.370	-3.255	-4.097	-4.895	-5.663	-6.395	-7.111	-7.813	-8.498	-9.166	-9.818	-10.467	-11.115	-11.760	-12.403
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'Incineration (non-specialist)'		2.437	1.416	0.411	-0.579	-1.552	-2.507	-3.427	-4.309	-5.153	-5.969	-6.755	-7.527	-8.286	-9.030	-9.760	-10.474	-11.186	-11.895	-12.602	-13.305
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'MBT'		2.437	1.348	0.268	-0.802	-1.861	-2.908	-3.933	-4.933	-5.908	-6.869	-7.811	-8.746	-9.672	-10.590	-11.500	-12.399	-13.295	-14.185	-15.070	-15.951
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'RDF'		2.437	1.421	0.420	-0.564	-1.531	-2.480	-3.393	-4.267	-5.101	-5.908	-6.683	-7.444	-8.191	-8.924	-9.641	-10.343	-11.042	-11.739	-12.433	-13.125
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'treatment'		2.437	1.370	0.314	-0.731	-1.763	-2.780	-3.772	-4.735	-5.668	-6.582	-7.475	-8.358	-9.231	-10.094	-10.946	-11.787	-12.624	-13.456	-14.285	-15.109
Total MSW and C&I waste sent direct to non-hazardous landfill		0.685	0.666	0.644	0.622	0.598	0.562	0.522	0.481	0.454	0.422	0.404	0.386	0.367	0.348	0.328	0.323	0.319	0.314	0.309	0.304
Inert landfill																					
Available inert landfill capacity	0.000	0.000	-0.242	-0.479	-0.711	-0.937	-1.159	-1.372	-1.578	-1.776	-1.966	-2.148	-2.325	-2.497	-2.664	-2.825	-2.982	-3.133	-3.278	-3.419	-3.554
Available inert landfill capacity assuming all MSW and C&I recovery by 'Incineration (non-specialist)'		0.000	-0.266	-0.528	-0.787	-1.043	-1.295	-1.545	-1.791	-2.033	-2.273	-2.508	-2.741	-2.970	-3.196	-3.418	-3.638	-3.851	-4.059	-4.261	-4.456
Total C&D waste sent direct to inert landfill	0.247	0.242	0.237	0.232	0.227	0.221	0.214	0.206	0.198	0.190	0.182	0.177	0.172	0.167	0.161	0.156	0.151	0.146	0.141	0.135	0.130
Hazardous landfill																					
Available hazardous landfill capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total hazardous waste sent direct to hazardous landfill	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Other																					
Metal/ELV facility	0.459	0.459	0.459	0.459	0.459	0.459	0.459	0.459	0.459	0.459	0.459	0.459	0.459	0.459	0.459	0.459	0.459	0.459	0.459	0.459	0.459
Ignored	0.300	0.300	0.300	0.300	0.300	0.300	0.300	0.300	0.300	0.300	0.300	0.300	0.300	0.300	0.300	0.300	0.300	0.300	0.300	0.300	0.300
Closed	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

(1) ERM has assumed that 20% of the total 'transfer' capacity will deliver recycling capacity
(2) ERM has assumed that 5% of the total 'transfer' capacity will deliver recycling capacity
(3) Data for C&D recovery for landfill cover for the SE Region were sourced from the original MEL model, which sourced the data from Symonds (2001)
Note:

West Sussex

DATA_08: RESIDUE RATES (%)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Recovery residues (% by weight)																					
MSW and C&I incineration (non-specialist) - bottom ash	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
MSW and C&I incineration (non-specialist) - fly ash	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
MSW and C&I to MBT	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59
MSW and C&I to RDF	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
MSW and C&I treatment - non-hazardous	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45
MSW and C&I treatment - hazardous	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Hazardous waste recovery	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Recycling residues (% by weight)																					
MSW and C&I recycling	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
MSW and C&I transfer	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
MSW and C&I composting	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
C&D recycling	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Hazardous waste recycling	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Other																					
Metal/ELV facility	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Ignored	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Closed	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Note: All residues are calculated on the amount of waste arising not on the maount of capacity available. This is complaince with the self-sufficiency requirements of PPS10.

DATA_09: TOTAL RESIDUE (Million Tonnes)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Recovery residues (of waste managed):																					
MSW and C&I incineration (non-specialist) - bottom ash	0.043	0.047	0.051	0.054	0.059	0.063	0.071	0.080	0.090	0.098	0.107	0.111	0.115	0.118	0.122	0.126	0.125	0.124	0.122	0.120	0.119
MSW and C&I incineration (non-specialist) - fly ash	0.004	0.005	0.005	0.005	0.006	0.006	0.007	0.008	0.009	0.010	0.011	0.011	0.011	0.012	0.012	0.013	0.013	0.012	0.012	0.012	0.012
MSW and C&I to MBT	0.085	0.092	0.099	0.107	0.115	0.124	0.141	0.158	0.177	0.193	0.210	0.218	0.225	0.233	0.241	0.249	0.246	0.243	0.240	0.237	0.234
MSW and C&I to RDF	0.017	0.019	0.020	0.022	0.023	0.025	0.029	0.032	0.036	0.039	0.043	0.044	0.046	0.047	0.049	0.051	0.050	0.049	0.049	0.048	0.048
MSW and C&I treatment - non-hazardous	0.065	0.070	0.076	0.082	0.088	0.094	0.107	0.121	0.135	0.147	0.161	0.166	0.172	0.178	0.184	0.190	0.188	0.185	0.183	0.181	0.178
MSW and C&I treatment - hazardous	0.007	0.008	0.008	0.009	0.010	0.010	0.012	0.013	0.015	0.016	0.018	0.018	0.019	0.020	0.020	0.021	0.021	0.021	0.020	0.020	0.020
Hazardous waste recovery	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Recycling residues (of waste managed):																					
MSW and C&I recycling and composting	0.073	0.079	0.085	0.091	0.098	0.105	0.111	0.117	0.123	0.128	0.133	0.137	0.142	0.147	0.152	0.157	0.161	0.166	0.170	0.175	0.180
C&D recycling	0.059	0.060	0.061	0.062	0.064	0.065	0.065	0.065	0.065	0.065	0.065	0.068	0.070	0.073	0.076	0.078	0.078	0.078	0.078	0.078	0.078
Hazardous waste recycling	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Note: All residues are calculated on the amount of waste arising not on the maount of capacity available. This is complaince with the self-sufficiency requirements of PPS10.

DATA_10: TOTAL MSW AND C&I RESIDUE FROM RECYCLING SENT TO NON-HAZARDOUS LANDFILL (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Total MSW and C&I recycling and composting residue sent to non-hazardous landfill	0.131	0.139	0.146	0.154	0.162	0.170	0.176	0.182	0.188	0.193	0.198	0.205	0.212	0.220	0.227	0.235	0.239	0.244	0.249	0.253	0.258

DATA_11: TOTAL MSW AND C&I RESIDUE FROM RECOVERY SENT TO NON-HAZARDOUS LANDFILL AND C&D RECYCLING (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
SCENARIO 1 - Assumes all recovery is by 'Non-specialist incineration' (based on total recovery capacity)																					
(1) Total MSW and C&I residue sent to non-hazardous landfill assuming all MSW and C&I recovery by 'Non-specialist incineration'	0.022	0.023	0.025	0.027	0.029	0.031	0.036	0.040	0.045	0.049	0.054	0.055	0.057	0.059	0.061	0.063	0.063	0.062	0.061	0.060	0.059
(1) Total MSW and C&I residue sent to inert landfill assuming all MSW and C&I recovery by 'Non-specialist incineration'	0.022	0.023	0.025	0.027	0.029	0.031	0.036	0.040	0.045	0.049	0.054	0.055	0.057	0.059	0.061	0.063	0.063	0.062	0.061	0.060	0.059
SCENARIO 2 - Assumes all recovery is by 'MBT' (based on total recovery capacity)																					
Total MSW and C&I residue sent to non-hazardous landfill	0.085	0.092	0.099	0.107	0.115	0.124	0.141	0.158	0.177	0.193	0.210	0.218	0.225	0.233	0.241	0.249	0.246	0.243	0.240	0.237	0.234
SCENARIO 3 - Assumes all recovery is by 'RDF' (based on total recovery capacity)																					
Total MSW and C&I residue sent to non-hazardous landfill	0.017	0.019	0.020	0.022	0.023	0.025	0.029	0.032	0.036	0.039	0.043	0.044	0.046	0.047	0.049	0.051	0.050	0.049	0.049	0.048	0.048
SCENARIO 4 - Assumes all recovery is by 'treatment' (based on total recovery capacity)																					
Total MSW and C&I residue sent to non-hazardous landfill	0.065	0.070	0.076	0.082	0.088	0.094	0.107	0.121	0.135	0.147	0.161	0.166	0.172	0.178	0.184	0.190	0.188	0.185	0.183	0.181	0.178

(1) It was assumed that 50% of residue from 'non-specialist incineration' is sent to non-hazardous landfill and 50% is sent to inert landfill. In the original model assumptions developed MEL 50% was assumed to go to C&D recycling, rather than to inert landfi

DATA_12: TONNAGES OF C&D REUSED ON NON-HAZARDOUS AND INERT LANDFILL (Million Tonnes)

(1) C&D reused on landfill sites	39 %
(1) C&D reused on exempt sites	61 %
(1) C&D reused on landfill sites sent to 'non-haz landfill'	30 %
(1) C&D reused on landfill sites sent to 'inert landfill'	70 %

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
c&d	Total C&D reused on non-hazardous landfill	0.055	0.054	0.053	0.052	0.051	0.050	0.051	0.052	0.053	0.054	0.055	0.052	0.050	0.047	0.045	0.042	0.043	0.044	0.044	0.045	0.045
	Total reused C&D on inert landfill	0.127	0.125	0.123	0.121	0.119	0.117	0.119	0.121	0.123	0.125	0.127	0.122	0.116	0.110	0.105	0.099	0.100	0.102	0.103	0.105	0.106

(1) C&D reuse rates based on original model assumptions developed MEL
NOTE: C&D reuse on inert and non-hazardous landfill is not included within the charts because it has been assumed that data supplied by each sub-region has accounted for C&D reuse as an engineering material.

DATA_13: TOTAL MSW AND C&I RESIDUE FROM RECYCLING SENT TO HAZARDOUS LANDFILL (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Total MSW and C&I recycling and composting residue sent to hazardous landfill	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

DATA_14: TOTAL MSW AND C&I RESIDUE FROM RECOVERY SENT TO HAZARDOUS LANDFILL (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
SCENARIO 1 - Assumes all recovery is by 'Non-specialist incineration' (based on total recovery capacity)																					
Total MSW and C&I residue sent to hazardous landfill assuming all MSW and C&I recovery by 'Non-specialist incineration'	0.004	0.005	0.005	0.005	0.006	0.006	0.007	0.008	0.009	0.010	0.011	0.011	0.011	0.012	0.012	0.013	0.013	0.012	0.012	0.012	0.012
SCENARIO 2 - Assumes all recovery is by 'MBT' (based on total recovery capacity)																					
Total MSW and C&I residue sent to hazardous landfill	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SCENARIO 3 - Assumes all recovery is by 'RDF' (based on total recovery capacity)																					
Total MSW and C&I residue sent to hazardous landfill	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SCENARIO 4 - Assumes all recovery is by 'treatment' (based on total recovery capacity)																					
Total MSW and C&I residue sent to hazardous landfill	0.007	0.008	0.008	0.009	0.010	0.010	0.012	0.013	0.015	0.016	0.018	0.018	0.019	0.020	0.020	0.021	0.021	0.021	0.020	0.020	0.020

NOTE: This element of the model is redundant. There is currently no hazardous waste capacity figures to generate a chart of managed waste versus available capacity.

DATA_15: TOTAL HAZARDOUS WASTE RESIDUE FROM RECOVERY AND RECYCLING SENT TO HAZARDOUS LANDFILL (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Total hazardous waste recycling and recovery residue sent to hazardous landfill	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

West Sussex

CHART_06

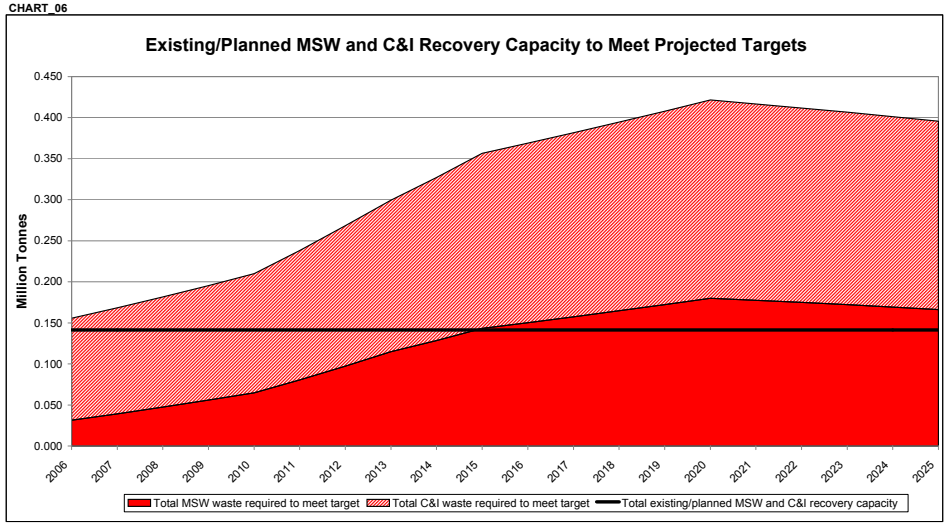


CHART_07

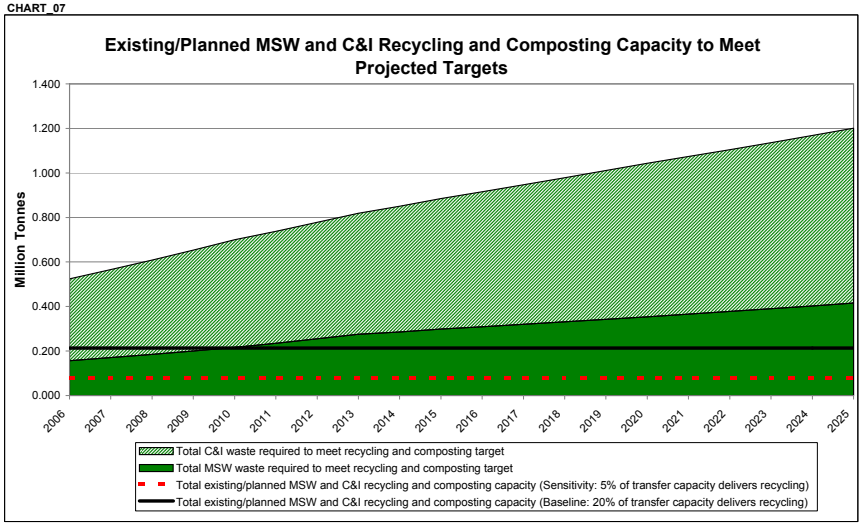
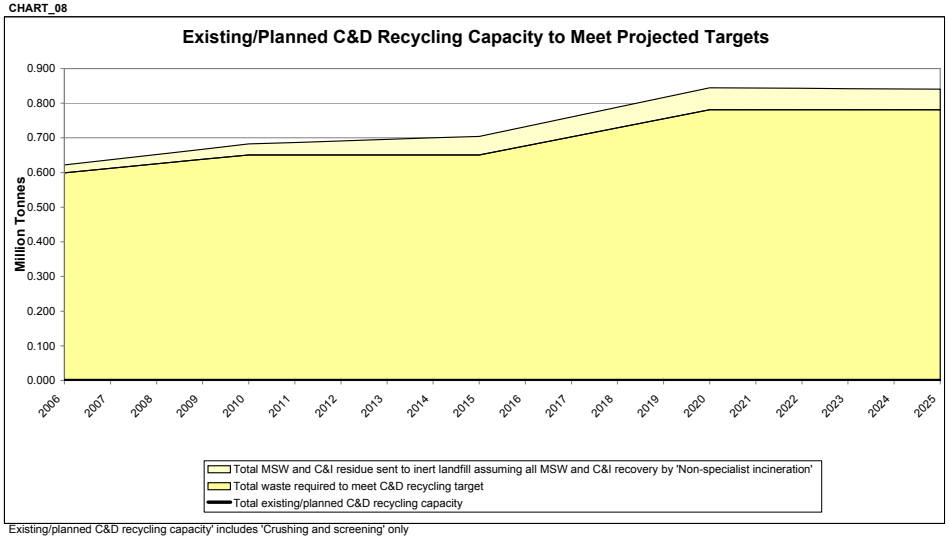


CHART_08



Existing/planned C&D recycling capacity' includes 'Crushing and screening' only
NOTE: This capacity does not represent the quantity of material that is recycled.
NOTE: Residue from MSW and C&I recovery is based on existing/planned capacity (not waste tonnage to meet recovery target)

West Sussex

CHART_09

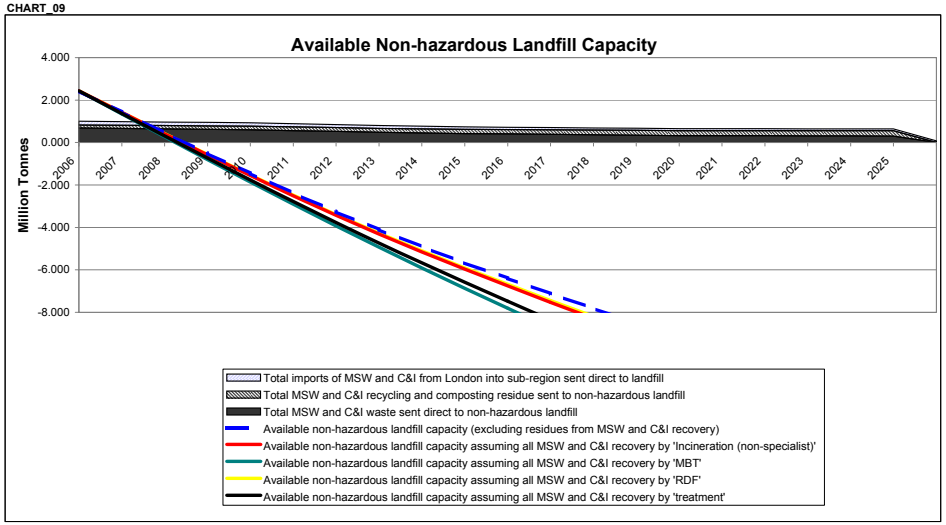
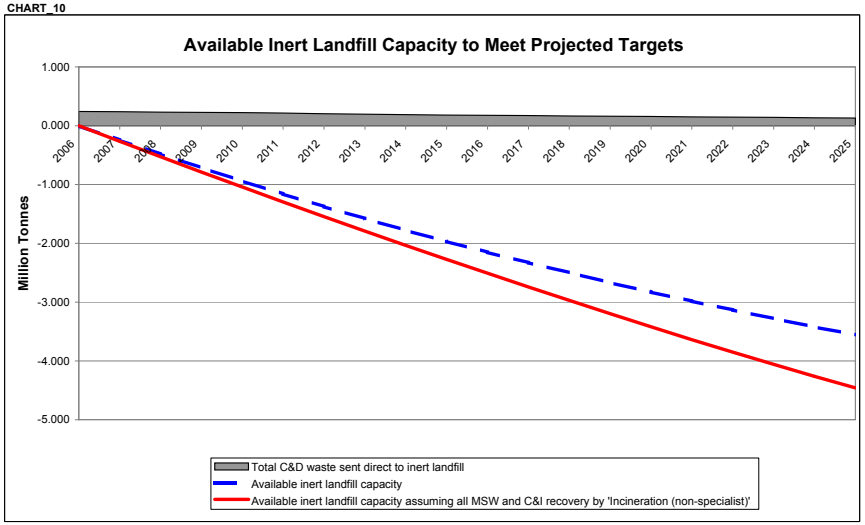


CHART_10



NOTE: The graph assumes that the baseline capacity for non-hazardous landfill has accounted for C&D reuse as a landfill engineering material.

Scenario 3

SE Region

SUMMARY DATA AND RESULTS FOR SE REGION

MANAGED WASTE USED TO GENERATE RESULTS (Million Tonnes)	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	4.886	5.008	5.133	5.261	5.393	5.501	5.611	5.723	5.837	5.954	6.043	6.134	6.226	6.319	6.414	6.510	6.608	6.707	6.808	6.910
msw - imports from london that are sent direct to non-hazardous landfill	0.703	0.685	0.667	0.649	0.631	0.596	0.560	0.525	0.490	0.455	0.436	0.417	0.398	0.379	0.360	0.353	0.346	0.339	0.331	0.324
c&i	8.206	8.411	8.621	8.837	9.058	9.239	9.423	9.612	9.804	10.000	10.150	10.302	10.457	10.614	10.773	10.881	10.990	11.100	11.211	11.323
c&i - imports from london that are sent direct to non-hazardous landfill	1.011	0.985	0.960	0.934	0.908	0.857	0.806	0.756	0.705	0.654	0.627	0.600	0.573	0.546	0.519	0.506	0.493	0.481	0.468	0.456
c&d	12.134	12.134	12.134	12.134	12.134	12.134	12.134	12.134	12.134	12.134	12.134	12.134	12.134	12.134	12.134	12.134	12.134	12.134	12.134	12.134
hazardous	0.485	0.497	0.510	0.522	0.535	0.546	0.557	0.568	0.579	0.591	0.600	0.609	0.618	0.627	0.637	0.643	0.650	0.656	0.663	0.669

WASTE STREAM TONNAGES TO MEET TARGETS (Million Tonnes)		2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	LATS shortfall (how much extra is landfilled above LATS target)	-0.180	-0.142	-0.073	*0.024*	*0.151*	*0.201*	*0.245*	*0.283*	*0.181*	*0.073*	*0.061*	*0.047*	*0.030*	*0.012*	-0.008	-0.006	-0.004	-0.002	*0.000*	*0.002*
	Recycling and composting target	1.563	1.703	1.848	2.018	2.274	2.460	2.646	2.832	2.927	3.026	3.123	3.221	3.320	3.421	3.528	3.646	3.767	3.890	4.017	4.147
	Recovery target	0.313	0.391	0.472	0.563	0.682	0.843	1.010	1.182	1.317	1.453	1.519	1.586	1.654	1.723	1.796	1.771	1.745	1.717	1.688	1.659
	Non-hazardous landfill	3.010	2.914	2.813	2.680	2.437	2.197	1.954	1.709	1.593	1.475	1.402	1.327	1.252	1.176	1.090	1.094	1.097	1.100	1.103	1.104
c&i	Recycling and composting target	3.446	3.701	3.966	4.242	4.529	4.712	4.900	5.094	5.294	5.500	5.684	5.872	6.065	6.262	6.464	6.637	6.814	6.993	7.175	7.360
	Recovery target	1.165	1.211	1.259	1.308	1.359	1.478	1.602	1.730	1.863	2.000	2.050	2.102	2.154	2.208	2.262	2.241	2.220	2.198	2.175	2.151
	Non-hazardous landfill	3.594	3.499	3.397	3.287	3.170	3.049	2.921	2.787	2.647	2.500	2.416	2.328	2.238	2.144	2.047	2.002	1.956	1.909	1.861	1.812
c&d	Recycling target	5.582	5.703	5.824	5.946	6.067	6.067	6.067	6.067	6.067	6.067	6.310	6.552	6.795	7.038	7.280	7.280	7.280	7.280	7.280	7.280
	Recovery target	4.295	4.223	4.150	4.077	4.004	4.077	4.150	4.223	4.295	4.368	4.174	3.980	3.786	3.592	3.397	3.446	3.495	3.543	3.592	3.640
	Inert landfill	2.257	2.208	2.160	2.111	2.063	1.990	1.917	1.844	1.772	1.699	1.650	1.602	1.553	1.505	1.456	1.408	1.359	1.310	1.262	1.213
hazardous	Hazardous waste	0.485	0.497	0.510	0.522	0.535	0.546	0.557	0.568	0.579	0.591	0.600	0.609	0.618	0.627	0.637	0.643	0.650	0.656	0.663	0.669

Note: If there is a LATS shortfall, denoted by a positive number, (ie insufficient allowance to landfill non-diverted waste) then the model assumes that this extra waste is recycled/composted and recovered at the same ratio as the regional targets for recycling/composting and recovery for that year.

EXISTING/PLANNED CAPACITY FOR RECYCLING, RECOVERY AND LANDFILLING AND TOTAL WASTE TONNAGES TO EACH DISPOSAL ROUTE (Million Tonnes)		2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
MSW and C&I recovery																					
	Total existing/planned MSW and C&I recovery capacity	3.534	3.534	3.534	3.534	3.534	3.534	3.534	3.534	3.534	3.534	3.534	3.534	3.534	3.534	3.534	3.534	3.534	3.534	3.534	3.534
	Surplus/deficit capacity	2.057	1.933	1.803	1.664	1.494	1.213	0.922	0.622	0.355	0.082	-0.035	-0.153	-0.274	-0.396	-0.524	-0.478	-0.430	-0.380	-0.329	-0.276
MSW and C&I recycling and composting																					
	Total existing/planned MSW and C&I recycling and composting capacity (Baseline: 20% of transfer capacity delivers recycling)	8.599	8.599	8.599	8.599	8.599	8.599	8.599	8.599	8.599	8.599	8.599	8.599	8.599	8.599	8.599	8.599	8.599	8.599	8.599	8.599
	Total existing/planned MSW and C&I recycling and composting capacity (Sensitivity: 5% of transfer capacity delivers recycling)	6.688	6.688	6.688	6.688	6.688	6.688	6.688	6.688	6.688	6.688	6.688	6.688	6.688	6.688	6.688	6.688	6.688	6.688	6.688	6.688
	Surplus/deficit capacity (Baseline: 20% of transfer capacity delivers recycling)	3.590	3.196	2.786	2.340	1.797	1.428	1.053	0.673	0.378	0.073	-0.208	-0.494	-0.786	-1.083	-1.392	-1.684	-1.981	-2.284	-2.592	-2.908
	Surplus/deficit capacity (Sensitivity: 5% of transfer capacity delivers recycling)	1.678	1.284	0.874	0.428	-0.115	-0.484	-0.858	-1.239	-1.533	-1.839	-2.119	-2.406	-2.697	-2.995	-3.304	-3.595	-3.892	-4.195	-4.504	-4.819
C&D recycling																					
	Total existing/planned C&D recycling capacity	0.387	0.387	0.387	0.387	0.387	0.387	0.387	0.387	0.387	0.387	0.387	0.387	0.387	0.387	0.387	0.387	0.387	0.387	0.387	0.387
	Surplus/deficit capacity	-5.194	-5.315	-5.437	-5.558	-5.679	-5.679	-5.679	-5.679	-5.679	-5.679	-5.922	-6.165	-6.407	-6.650	-6.893	-6.893	-6.893	-6.893	-6.893	-6.893
C&D recovery																					
	REGIONAL total existing/planned C&D recovery capacity	1.794	1.710	1.627	1.544	1.460	1.439	1.418	1.398	1.377	1.356	1.325	1.293	1.262	1.231	1.199	1.220	1.241	1.262	1.283	1.304
	Surplus/deficit capacity	-2.502	-2.512	-2.523	-2.533	-2.544	-2.638	-2.731	-2.825	-2.919	-3.012	-2.849	-2.687	-2.524	-2.361	-2.198	-2.226	-2.253	-2.281	-2.309	-2.336
Hazardous waste recycling																					
	Total existing/planned hazardous waste recycling capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Surplus/deficit capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hazardous waste recovery																					
	Total existing/planned hazardous waste recovery capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Surplus/deficit capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Non-hazardous landfill																					
	Available non-hazardous landfill capacity (excluding residues from MSW and C&I recovery)	65.674	56.047	46.582	37.292	28.209	19.436	11.055	3.074	-4.499	-11.774	-18.743	-25.576	-32.268	-38.816	-45.217	-51.460	-57.686	-63.893	-70.082	-76.251
	Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'Incineration (non-specialist)'	65.618	55.769	46.064	36.514	27.150	18.071	9.342	0.969	-7.040	-14.792	-22.280	-29.648	-36.893	-44.012	-51.003	-57.855	-64.682	-71.484	-78.260	-85.009
	Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'MBT'	65.453	54.953	44.544	34.232	24.045	14.068	4.318	-5.205	-14.495	-23.647	-32.653	-41.592	-50.459	-59.254	-67.974	-76.612	-85.205	-93.751	-102.249	-110.698
	Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'RDF'	65.629	55.824	46.168	36.670	27.362	18.344	9.685	1.390	-6.532	-14.189	-21.573	-28.833	-35.968	-42.973	-49.846	-56.576	-63.283	-69.966	-76.624	-83.258
	Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'treatment'	65.505	55.213	45.027	34.958	25.033	15.342	5.916	-3.240	-12.123	-20.829	-29.353	-37.791	-46.142	-54.404	-62.574	-70.644	-78.675	-86.666	-94.616	-102.524
Inert landfill																					
	Available inert landfill capacity	74.056	71.799	69.591	67.431	65.320	63.257	61.267	59.350	57.506	55.734	54.035	52.385	50.783	49.230	47.726	46.270	44.862	43.503	42.193	40.931
	Available inert landfill capacity assuming all MSW and C&I recovery by 'Incineration (non-specialist)'	74.041	71.563	69.114	66.695	64.303	61.934	59.596	57.287	55.006	52.757	50.541	48.355	46.200	44.076	41.982	39.917	37.908	35.954	34.056	32.215
Hazardous landfill																					
	Available hazardous landfill capacity	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309

Note: The model does not contain data for the management of hazardous waste.

DATA_01: ARISINGS AND GROWTH RATES OF MSW, C&I AND HAZARDOUS WASTE (Million Tonnes)		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	Arisings of MSW in baseline year																					
	(1) Forecast regional level growth rate of MSW - per year (%)	3.0%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%
	(1) Forecast regional level growth rate of MSW - cumulative (%)																					
	Total arisings of MSW using regional growth forecasts	4.766	4.886	5.008	5.133	5.261	5.393	5.501	5.611	5.723	5.837	5.954	6.043	6.134	6.226	6.319	6.414	6.510	6.608	6.707	6.808	6.910
	(1) Forecast sub-regional growth rate of MSW - per year (%)	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%
	(1) Forecast sub-regional level growth rate of MSW - cumulative (%)																					
	Total arisings of MSW using sub-regional growth forecasts	4.747	4.862	4.976	5.088	5.202	5.312	5.409	5.499	5.591	5.685	5.779	5.857	5.935	6.015	6.085	6.162	6.240	6.320	6.400	6.482	6.565
c&i	Arisings of C&I in baseline year																					
	(1) Forecast regional level growth rate of C&I - per year (%)	3.3%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.0%	1.0%	1.0%	1.0%	1.0%
	(1) Forecast regional level growth rate of C&I - cumulative (%)																					
	Total arisings of C&I using regional growth forecasts	8.006	8.206	8.411	8.621	8.837	9.058	9.239	9.423	9.612	9.804	10.000	10.150	10.302	10.457	10.614	10.773	10.881	10.990	11.100	11.211	11.323
	(1) Forecast sub-regional level growth rate of C&I - per year (%)	3.3%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.0%	1.0%	1.0%	1.0%	1.0%
	(1) Forecast sub-regional level growth rate of C&I - cumulative (%)																					
	Total arisings of C&I using sub-regional growth forecasts	7.903	8.080	8.256	8.437	8.622	8.806	8.961	9.118	9.279	9.443	9.598	9.719	9.842	9.967	10.093	10.214	10.297	10.380	10.464	10.550	10.636
hazardous	Arisings of hazardous waste in baseline year																					
	(2) Forecast regional level growth rate of hazardous waste - per year (%)	3.3%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.0%	1.0%	1.0%	1.0%	1.0%
	Forecast regional level growth rate of hazardous waste - cumulative (%)																					
	Total arisings of hazardous waste	0.473	0.485	0.497	0.510	0.522	0.535	0.546	0.557	0.568	0.579	0.591	0.600	0.609	0.618	0.627	0.637	0.643	0.650	0.656	0.663	0.669
	(2) Forecast sub-regional level growth rate of hazardous waste - per year (%)	3.3%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.0%	1.0%	1.0%	1.0%	1.0%
	Forecast sub regional level growth rate of hazardous waste - cumulative (%)																					
	Total arisings of hazardous waste	0.471	0.481	0.493	0.504	0.516	0.527	0.537	0.547	0.557	0.567	0.578	0.586	0.594	0.602	0.610	0.618	0.624	0.629	0.635	0.641	0.647
c&d	Total managed C&D in baseline year																					
	(3) Forecast regional-level growth rate of managed C&D - per year (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Forecast regional-level growth rate of managed C&D - cumulative (%)																					
	(3) Total managed of C&D for the sub-region	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801

(1) Figures from SEERA updated waste capacity model by ERM in 2005.
(2) Baseline year of hazardous waste arisings is 2003 from EA Hazardous Waste Interrogator. www.environment-agency.gov.uk/apps/wastesurvey2/. ERM has assumed that growth in hazardous waste is equal to C&I waste.
(3) These data represent managed C&D waste in the sub-region, including all intra-regional and inter-regional movements. Growth is assumed to be zero from the orginal MEL study and updated modeted by ERM in 2005.
NOTE: C&D waste is not included in arisings because this was taken from survey data by Symonds 2001 which gave values for managed C&D waste.

SE Region

Figure in blue represent data supplied by each sub-region for the new '2006 SEERA Capacity and Need Model'
Figures in orange represent managed waste that are used by the model to calculate results. These can be adjusted for different scenarios.

DATA_02: INTER REGIONAL MOVEMENTS OF MSW and C&I (Million Tonnes)		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw and c&i	Regional level imports of MSW and C&I waste into the SE region from London	1.76	1.716	1.672	1.628	1.584	1.54	1.454	1.368	1.282	1.196	1.11	1.064	1.018	0.972	0.926	0.88	0.86	0.84	0.82	0.8	0.78
	Proportion of regional MSW and C&I imports that go to the sub-region (%)	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%	100.0%
(1)	Total imports of MSW and C&I from London into sub-region sent direct to landfill	1.760	1.716	1.672	1.628	1.584	1.540	1.454	1.368	1.282	1.196	1.110	1.064	1.018	0.972	0.926	0.880	0.860	0.840	0.820	0.800	0.780
msw	Proportion of total MSW and C&I imports that are MSW (%) - REGIONAL GROWTH FORECAST	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	38%	38%	38%	38%
	Total imports of MSW into the sub-region from London - REGIONAL GROWTH FORECAST	0.657	0.640	0.624	0.608	0.591	0.575	0.543	0.511	0.478	0.446	0.414	0.397	0.380	0.363	0.346	0.328	0.322	0.315	0.309	0.302	0.296
	Proportion of total MSW and C&I imports that are MSW (%) - SUB-REGIONAL GROWTH FORECAST	38%	38%	38%	38%	38%	38%	38%	38%	38%	38%	38%	38%	38%	38%	38%	38%	38%	38%	38%	38%	38%
	Total imports of MSW into the sub-region from London - SUB-REGIONAL GROWTH FORECAST	0.660	0.645	0.629	0.612	0.596	0.579	0.547	0.515	0.482	0.449	0.417	0.400	0.383	0.366	0.348	0.331	0.325	0.318	0.311	0.304	0.298
c&i	Proportion of total MSW and C&I imports that are C&I (%) - REGIONAL GROWTH FORECAST	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	62%	62%	62%	62%
	Total imports of C&I into the sub-region from London - REGIONAL GROWTH FORECAST	1.103	1.076	1.048	1.020	0.993	0.965	0.911	0.857	0.804	0.750	0.696	0.667	0.638	0.609	0.580	0.552	0.538	0.525	0.511	0.498	0.484
	Proportion of total MSW and C&I imports that are C&I (%) - SUB-REGIONAL GROWTH FORECAST	62%	62%	62%	62%	62%	62%	62%	62%	62%	62%	62%	62%	62%	62%	62%	62%	62%	62%	62%	62%	62%
	Total imports of C&I into the sub-region from London - SUB-REGIONAL GROWTH FORECAST	1.100	1.071	1.043	1.016	0.988	0.961	0.907	0.853	0.800	0.747	0.693	0.664	0.635	0.606	0.578	0.549	0.535	0.522	0.509	0.496	0.482

(1) Intra-regional and inter-regional movements have been excluded for MSW and C&I waste due to self-sufficiency requirements under PPS10, except for inter-regional movements from London into the sub-region. Apportionment from Policy W3 in the Plan – downloadable from www.southeast-ra.gov.uk/southeastplan/plan/march_2006/core_document/009_seera_sep_d(
Note: Only a figure is available for total combined imports of MSW and C&I waste. ERM has assumed that imports of the seperate waste streams of MSW and C&I was split according to tonnage arisings of MSW and C&I in the sub-region.

DATA_03: MANAGED WASTE USED TO GENERATE RESULTS (Million Tonnes)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	4.766	4.886	5.008	5.133	5.261	5.393	5.501	5.611	5.723	5.837	5.954	6.043	6.134	6.226	6.319	6.414	6.510	6.608	6.707	6.808	6.910
msw - imports from london that are sent direct to non-hazardous landfill	0.721	0.703	0.685	0.667	0.649	0.631	0.596	0.560	0.525	0.490	0.455	0.436	0.417	0.398	0.379	0.360	0.353	0.346	0.339	0.331	0.324
c&i	8.006	8.206	8.411	8.621	8.837	9.058	9.239	9.423	9.612	9.804	10.000	10.150	10.302	10.457	10.614	10.773	10.881	10.990	11.100	11.211	11.323
c&i - imports from london that are sent direct to non-hazardous landfill	1.037	1.011	0.985	0.960	0.934	0.908	0.857	0.806	0.756	0.705	0.654	0.627	0.600	0.573	0.546	0.519	0.506	0.493	0.481	0.468	0.456
c&d	12.134	12.134	12.134	12.134	12.134	12.134	12.134	12.134	12.134	12.134	12.134	12.134	12.134	12.134	12.134	12.134	12.134	12.134	12.134	12.134	12.134
hazardous	0.473	0.485	0.497	0.510	0.522	0.535	0.546	0.557	0.568	0.579	0.591	0.600	0.609	0.618	0.627	0.637	0.643	0.650	0.656	0.663	0.669

DATA_04: TARGETS (% or Million Tonnes)		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	(1) landfill (Mt)	2.295	2.226	2.123	1.986	1.815	1.609	1.430	1.251	1.072	1.026	0.980	0.934	0.888	0.842	0.796	0.750	0.750	0.750	0.750	0.750	0.750
	recovered (%)	5	6.4	7.8	9.2	10.6	12	14.4	16.8	19.2	21.6	24	24.8	25.6	26.4	27.2	28	27.2	26.4	25.6	24.8	24
	recycled and composted (%)	30	32.0	34.0	36.0	38.0	40	42.0	44.0	46.0	48.0	50	51.0	52.0	53.0	54.0	55	56.0	57.0	58.0	59.0	60
c&i	recovered (%)	14	14.2	14.4	14.6	14.8	15	16.0	17.0	18.0	19.0	20	20.2	20.4	20.6	20.8	21	20.6	20.2	19.8	19.4	19
	recycled and composted (%)	40	42.0	44.0	46.0	48.0	50	51.0	52.0	53.0	54.0	55	56.0	57.0	58.0	59.0	60	61.0	62.0	63.0	64.0	65
c&d	recovered (%)	36	35.4	34.8	34.2	33.6	33	33.6	34.2	34.8	35.4	36	34.4	32.8	31.2	29.6	28	28.4	28.8	29.2	29.6	30
	recycled (%)	45	46.0	47.0	48.0	49.0	50	50.0	50.0	50.0	50.0	50	52.0	54.0	56.0	58.0	60	60.0	60.0	60.0	60.0	60
hazardous	landfill (%)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	recovered (%)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	recycled (%)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

(1) ERM has assumed that the LATS target allowance remains constant at the 2020 value for the years beyond 2020

DATA_05: WASTE STREAM TONNAGES TO MEET TARGETS (Million Tonnes)

DATA_02 calculates if there is a LATS shortfall or surplus in each year. If there is a LATS shortfall (ie insufficient allowance to landfill non-diverted waste) then the model assumes that this extra waste is recycled/composted and recovered at the same ratio as the regional targets for recycling/composting and recovery for that year. If there is a LATS surplus (ie more can be landfilled than is needed to meet regional diversion targets) then the model assumes that regional diversion targets are met (ie less waste is landfilled than LATS will allow). *'Red italic' text indicates where there is a shortfall.*

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	Total MSW to be recovered and recycled/composted to meet target	1.668	1.876	2.093	2.320	2.557	2.804	3.102	3.411	3.731	4.063	4.406	4.581	4.760	4.943	5.131	5.324	5.417	5.511	5.607	5.705	5.804
	Total MSW not-diverted by targets	3.098	3.010	2.914	2.813	2.704	2.589	2.398	2.199	1.992	1.775	1.548	1.462	1.374	1.283	1.188	1.090	1.094	1.097	1.100	1.103	1.106
	Percentage of MSW that is biodegradable (% by weight)	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68
	Total BMW not-diverted by targets	2.107	2.046	1.982	1.913	1.839	1.760	1.631	1.496	1.354	1.207	1.053	0.994	0.934	0.872	0.808	0.741	0.744	0.746	0.748	0.750	0.752
	LATS shortfall (how much extra is landfilled above LATS target)	-0.188	-0.180	-0.142	-0.073	0.024	0.151	0.201	0.245	0.283	0.181	0.073	0.061	0.047	0.030	0.012	-0.008	-0.006	-0.004	-0.002	0.000	0.002
	Ratio of 'recovered' to 'recycled/composted' for target (%)	14%	17%	19%	20%	22%	23%	26%	28%	29%	31%	32%	33%	33%	33%	33%	34%	33%	32%	31%	30%	29%
	Extra MSW 'recovery' needed due to LATS shortfall	0.000	0.000	0.000	0.000	*0.005*	*0.035*	*0.051*	*0.068*	*0.083*	*0.056*	*0.024*	*0.020*	*0.015*	*0.010*	*0.004*	0.000	0.000	0.000	0.000	*0.000*	*0.001*
	Extra MSW 'recycling/composting' needed due to LATS shortfall	0.000	0.000	0.000	0.000	*0.019*	*0.116*	*0.150*	*0.177*	*0.199*	*0.125*	*0.049*	*0.041*	*0.031*	*0.020*	*0.008*	0.000	0.000	0.000	0.000	*0.000*	*0.001*

The section below in DATA_03 shows the tonnages by waste to meet targets.

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	Recycling and composting target	1.430	1.563	1.703	1.848	2.018	2.274	2.460	2.646	2.832	2.927	3.026	3.123	3.221	3.320	3.421	3.528	3.646	3.767	3.890	4.017	4.147
	Recovery target	0.238	0.313	0.391	0.472	0.563	0.682	0.843	1.010	1.182	1.317	1.453	1.519	1.586	1.654	1.723	1.796	1.771	1.745	1.717	1.688	1.659
	Non-hazardous landfill	3.098	3.010	2.914	2.813	2.680	2.437	2.197	1.954	1.709	1.593	1.475	1.402	1.327	1.252	1.176	1.090	1.094	1.097	1.100	1.103	1.104
	CHECK COUNTER (should be zero)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
c&i	Recycling and composting target	3.202	3.446	3.701	3.966	4.242	4.529	4.712	4.900	5.094	5.294	5.500	5.684	5.872	6.065	6.262	6.464	6.637	6.814	6.993	7.175	7.360
	Recovery target	1.121	1.165	1.211	1.259	1.308	1.359	1.478	1.602	1.730	1.863	2.000	2.050	2.102	2.154	2.208	2.262	2.241	2.220	2.198	2.175	2.151
	Non-hazardous landfill	3.683	3.594	3.499	3.397	3.287	3.170	3.049	2.921	2.787	2.647	2.500	2.416	2.328	2.238	2.144	2.047	2.002	1.956	1.909	1.861	1.812
	CHECK COUNTER (should be zero)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

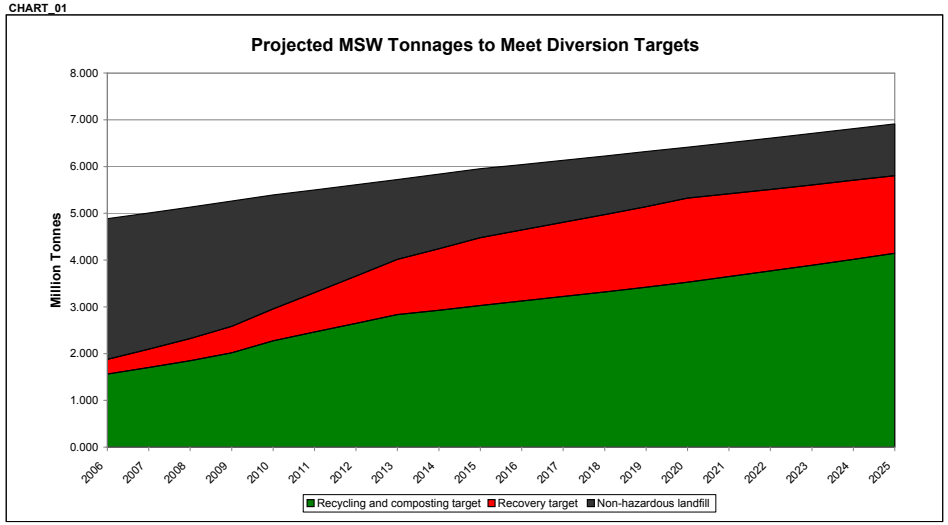
		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
c&d	Recycling target	5.460	5.582	5.703	5.824	5.946	6.067	6.067	6.067	6.067	6.067	6.067	6.310	6.552	6.795	7.038	7.280	7.280	7.280	7.280	7.280	7.280
	Recovery target	4.368	4.295	4.223	4.150	4.077	4.004	4.077	4.150	4.223	4.295	4.368	4.174	3.980	3.786	3.592	3.397	3.446	3.495	3.543	3.592	3.640
	Inert landfill	2.305	2.257	2.208	2.160	2.111	2.063	1.990	1.917	1.844	1.772	1.699	1.650	1.602	1.553	1.505	1.456	1.408	1.359	1.310	1.262	1.213
	CHECK COUNTER (should be zero)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
hazardous	Hazardous waste	0.473	0.485	0.497	0.510	0.522	0.535	0.546	0.557	0.568	0.579	0.591	0.600	0.609	0.618	0.627	0.637	0.643	0.650	0.656	0.663	0.669

DATA_06: TOTAL WASTE TONNAGES TO MEET TARGETS (Million Tonnes)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
MSW and C&I recycling and composting target	4.632	5.010	5.403	5.814	6.260	6.802	7.172	7.546	7.926	8.221	8.526	8.807	9.093	9.385	9.683	9.992	10.283	10.580	10.883	11.191	11.507
C&D recycling target	5.460	5.582	5.703	5.824	5.946	6.067	6.067	6.067	6.067	6.067	6.067	6.310	6.552	6.795	7.038	7.280	7.280	7.280	7.280	7.280	7.280
MSW and C&I recovery target	1.359	1.478	1.602	1.731	1.871	2.041	2.322	2.612	2.912	3.180	3.453	3.569	3.687	3.808	3.931	4.058	4.012	3.964	3.915	3.863	3.810
C&D recovery target	4.368	4.295	4.223	4.150	4.077	4.004	4.077	4.150	4.223	4.295	4.368	4.174	3.980	3.786	3.592	3.397	3.446	3.495	3.543	3.592	3.640
Non-hazardous landfill	6.781	6.604	6.413	6.210	5.967	5.607	5.246	4.876	4.496	4.241	3.975	3.817	3.656	3.490	3.320	3.137	3.096	3.053	3.009	2.964	2.915
Inert landfill	2.305	2.257	2.208	2.160	2.111	2.063	1.990	1.917	1.844	1.772	1.699	1.650	1.602	1.553	1.505	1.456	1.408	1.359	1.310	1.262	1.213
Hazardous waste	0.473	0.485	0.497	0.510	0.522	0.535	0.546	0.557	0.568	0.579	0.591	0.600	0.609	0.618	0.627	0.637	0.643	0.650	0.656	0.663	0.669

SE Region

CHART_01



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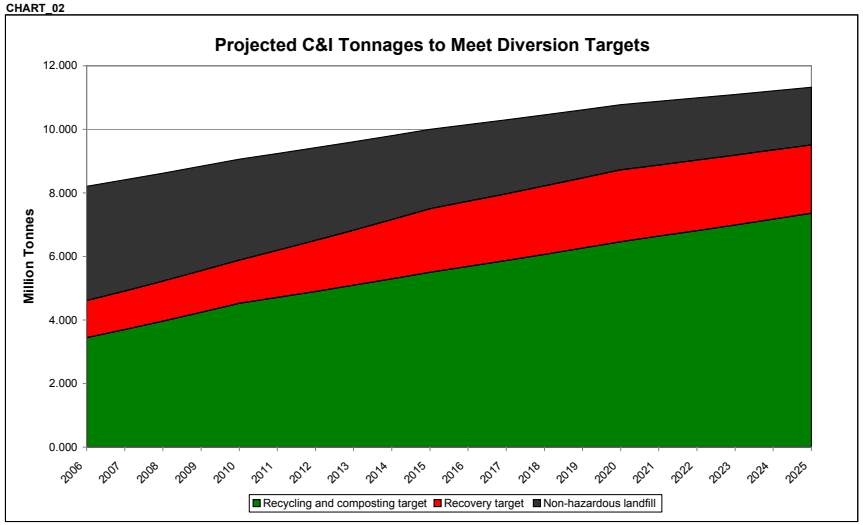

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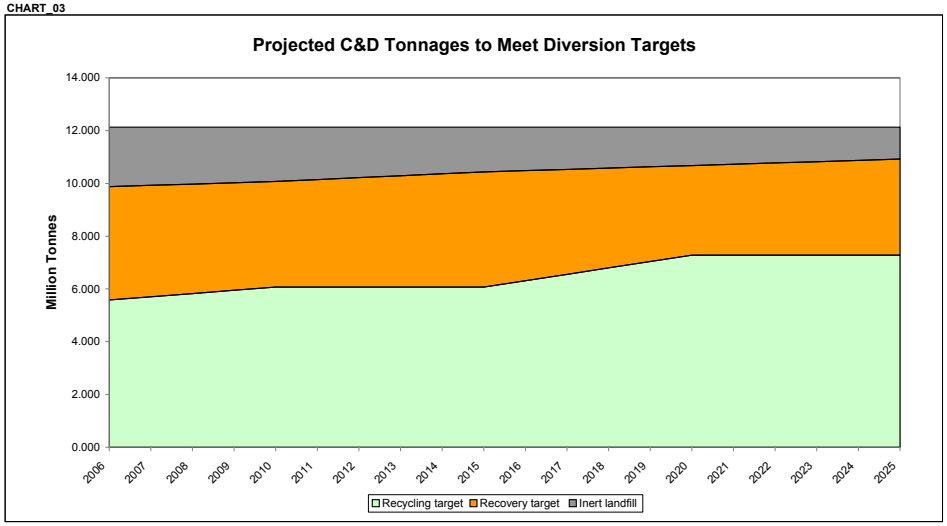

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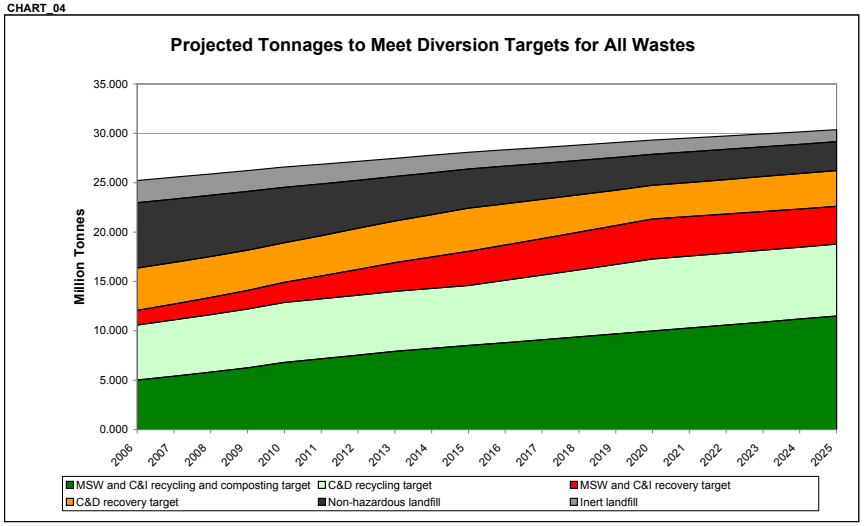
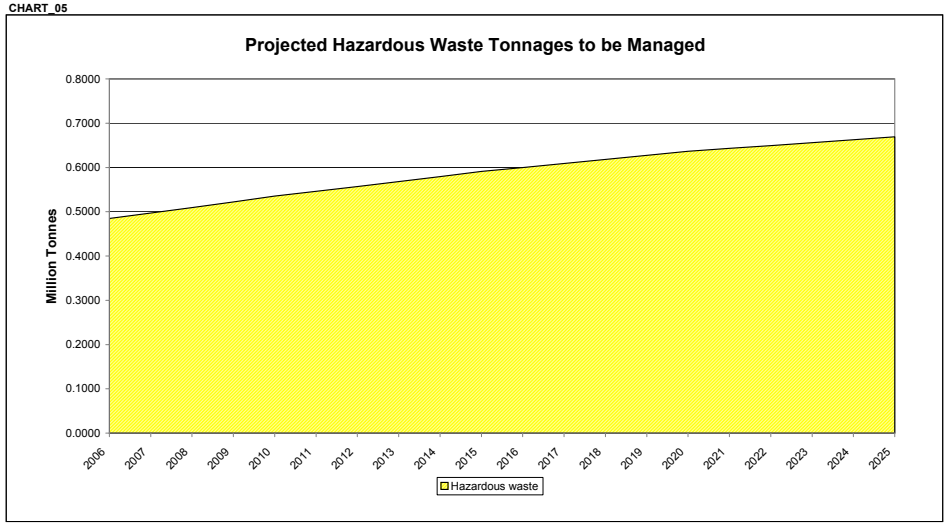


SE Region

CHART_05



DATA_07: EXISTING/PLANNED CAPACITY FOR RECYCLING, RECOVERY AND LANDFILLING AND TOTAL WASTE TONNAGES TO EACH DISPOSAL ROUTE (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
MSW and C&I recovery																					
MSW and C&I incineration (non-specialist)	0.990	0.990	0.990	0.990	0.990	0.990	0.990	0.990	0.990	0.990	0.990	0.990	0.990	0.990	0.990	0.990	0.990	0.990	0.990	0.990	0.990
MSW and C&I treatment	2.544	2.544	2.544	2.544	2.544	2.544	2.544	2.544	2.544	2.544	2.544	2.544	2.544	2.544	2.544	2.544	2.544	2.544	2.544	2.544	2.544
Total existing/planned MSW and C&I recovery capacity	3.534	3.534	3.534	3.534	3.534	3.534	3.534	3.534	3.534	3.534	3.534	3.534	3.534	3.534	3.534	3.534	3.534	3.534	3.534	3.534	3.534
Total MSW waste required to meet target	0.238	0.313	0.391	0.472	0.563	0.682	0.843	1.010	1.182	1.317	1.453	1.519	1.586	1.654	1.723	1.796	1.771	1.745	1.717	1.688	1.659
Total C&I waste required to meet target	1.121	1.165	1.211	1.259	1.308	1.359	1.478	1.602	1.730	1.863	2.000	2.050	2.102	2.154	2.208	2.262	2.241	2.220	2.198	2.175	2.151
Surplus/deficit capacity	2.175	2.057	1.933	1.803	1.664	1.494	1.213	0.922	0.622	0.355	0.082	-0.035	-0.153	-0.274	-0.396	-0.524	-0.478	-0.430	-0.380	-0.329	-0.276
MSW and C&I recycling and composting																					
MSW and C&I recycling	5.427	5.427	5.427	5.427	5.427	5.427	5.427	5.427	5.427	5.427	5.427	5.427	5.427	5.427	5.427	5.427	5.427	5.427	5.427	5.427	5.427
MSW and C&I transfer	12.744	12.744	12.744	12.744	12.744	12.744	12.744	12.744	12.744	12.744	12.744	12.744	12.744	12.744	12.744	12.744	12.744	12.744	12.744	12.744	12.744
Total existing/planned MSW and C&I composting capacity	0.624	0.624	0.624	0.624	0.624	0.624	0.624	0.624	0.624	0.624	0.624	0.624	0.624	0.624	0.624	0.624	0.624	0.624	0.624	0.624	0.624
(1) Total existing/planned MSW and C&I recycling and composting capacity (Baseline: 20% of transfer capacity delivers recycling)	8.599	8.599	8.599	8.599	8.599	8.599	8.599	8.599	8.599	8.599	8.599	8.599	8.599	8.599	8.599	8.599	8.599	8.599	8.599	8.599	8.599
(2) Total existing/planned MSW and C&I recycling and composting capacity (Sensitivity: 5% of transfer capacity delivers recycling)	6.688	6.688	6.688	6.688	6.688	6.688	6.688	6.688	6.688	6.688	6.688	6.688	6.688	6.688	6.688	6.688	6.688	6.688	6.688	6.688	6.688
Total MSW waste required to meet recycling and composting target	1.430	1.563	1.703	1.848	2.018	2.274	2.460	2.646	2.832	2.927	3.026	3.123	3.221	3.320	3.421	3.528	3.646	3.767	3.890	4.017	4.147
Total C&I waste required to meet recycling and composting target	3.202	3.446	3.701	3.966	4.242	4.529	4.712	4.900	5.094	5.294	5.500	5.684	5.872	6.065	6.262	6.464	6.637	6.814	6.993	7.175	7.360
Surplus/deficit capacity (Baseline: 20% of transfer capacity delivers recycling)	3.967	3.590	3.196	2.786	2.340	1.797	1.428	1.053	0.673	0.378	0.073	-0.208	-0.494	-0.786	-1.083	-1.392	-1.684	-1.981	-2.284	-2.592	-2.908
Surplus/deficit capacity (Sensitivity: 5% of transfer capacity delivers recycling)	2.056	1.678	1.284	0.874	0.428	-0.115	-0.484	-0.858	-1.239	-1.533	-1.839	-2.119	-2.406	-2.697	-2.995	-3.304	-3.595	-3.892	-4.195	-4.504	-4.819
C&D recycling																					
(3) Total existing/planned C&D recycling capacity	0.387	0.387	0.387	0.387	0.387	0.387	0.387	0.387	0.387	0.387	0.387	0.387	0.387	0.387	0.387	0.387	0.387	0.387	0.387	0.387	0.387
Total waste required to meet C&D recycling target	5.460	5.582	5.703	5.824	5.946	6.067	6.067	6.067	6.067	6.067	6.067	6.310	6.552	6.795	7.038	7.280	7.280	7.280	7.280	7.280	7.280
Surplus/deficit capacity	-5.073	-5.194	-5.315	-5.437	-5.558	-5.679	-5.679	-5.679	-5.679	-5.679	-5.679	-5.922	-6.165	-6.407	-6.650	-6.893	-6.893	-6.893	-6.893	-6.893	-6.893
C&D recovery																					
REGIONAL total existing/planned C&D recovery capacity	1.877	1.794	1.710	1.627	1.544	1.460	1.439	1.418	1.398	1.377	1.356	1.325	1.293	1.262	1.231	1.199	1.220	1.241	1.262	1.283	1.304
Sub-regional total waste required to meet C&D recovery target	4.368	4.295	4.223	4.150	4.077	4.004	4.077	4.150	4.223	4.295	4.368	4.174	3.980	3.786	3.592	3.397	3.446	3.495	3.543	3.592	3.640
Surplus/deficit capacity	-2.491	-2.502	-2.512	-2.523	-2.533	-2.544	-2.638	-2.731	-2.825	-2.919	-3.012	-2.849	-2.687	-2.524	-2.361	-2.198	-2.226	-2.253	-2.281	-2.309	-2.336
Hazardous waste recycling																					
Total existing/planned hazardous waste recycling capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total hazardous waste to be recycled	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Surplus/deficit capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hazardous waste recovery																					
Total existing/planned hazardous waste recovery capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total hazardous waste to be recovered	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Surplus/deficit capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Non-hazardous landfill																					
Available non-hazardous landfill capacity (excluding residues from MSW and C&I recovery)		65.674	56.047	46.582	37.292	28.209	19.436	11.055	3.074	-4.499	-11.774	-18.743	-25.576	-32.268	-38.816	-45.217	-51.460	-57.686	-63.893	-70.082	-76.251
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'Incineration (non-specialist)'		65.618	55.769	46.064	36.514	27.150	18.071	9.342	0.969	-7.040	-14.792	-22.280	-29.648	-36.893	-44.012	-51.003	-57.855	-64.682	-71.484	-78.260	-85.009
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'MBT'		65.453	54.953	44.544	34.232	24.045	14.068	4.318	-5.205	-14.495	-23.647	-32.653	-41.592	-50.459	-59.254	-67.974	-76.612	-85.205	-93.751	-102.249	-110.698
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'RDF'		65.629	55.824	46.168	36.670	27.362	18.344	9.685	1.390	-6.532	-14.189	-21.573	-28.833	-35.968	-42.973	-49.846	-56.576	-63.283	-69.966	-76.624	-83.258
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'treatment'		65.505	55.213	45.027	34.958	25.033	15.342	5.916	-3.240	-12.123	-20.829	-29.353	-37.791	-46.142	-54.404	-62.574	-70.644	-78.675	-86.666	-94.616	-102.524
Total MSW and C&I waste sent direct to non-hazardous landfill		6.604	6.413	6.210	5.967	5.607	5.246	4.876	4.496	4.241	3.975	3.817	3.656	3.490	3.320	3.137	3.096	3.053	3.009	2.964	2.915
Inert landfill																					
Available inert landfill capacity		74.056	71.799	69.591	67.431	65.320	63.257	61.267	59.350	57.506	55.734	54.035	52.385	50.783	49.230	47.726	46.270	44.862	43.503	42.193	40.931
Available inert landfill capacity assuming all MSW and C&I recovery by 'Incineration (non-specialist)'		74.041	71.563	69.114	66.695	64.303	61.934	59.596	57.287	55.006	52.757	50.541	48.355	46.200	44.076	41.982	39.917	37.908	35.954	34.056	32.215
Total C&D waste sent direct to inert landfill	2.305	2.257	2.208	2.160	2.111	2.063	1.990	1.917	1.844	1.772	1.699	1.650	1.602	1.553	1.505	1.456	1.408	1.359	1.310	1.262	1.213
Hazardous landfill																					
Available hazardous landfill capacity		3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309
Total hazardous waste sent direct to hazardous landfill		N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Other																					
Metal/ELV facility	3.385	3.385	3.385	3.385	3.385	3.385	3.385	3.385	3.385	3.385	3.385	3.385	3.385	3.385	3.385	3.385	3.385	3.385	3.385	3.385	3.385
Ignored	6.005	6.005	6.005	6.005	6.005	6.005	6.005	6.005	6.005	6.005	6.005	6.005	6.005	6.005	6.005	6.005	6.005	6.005	6.005	6.005	6.005
Closed	0.454	0.454	0.454	0.454	0.454	0.454	0.454	0.454	0.454	0.454	0.454	0.454	0.454	0.454	0.454	0.454	0.454	0.454	0.454	0.454	0.454

(1) ERM has assumed that 20% of the total 'transfer' capacity will deliver recycling capacity
(2) ERM has assumed that 5% of the total 'transfer' capacity will deliver recycling capacity
(3) Data for C&D recovery for landfill cover for the SE Region were sourced from the original MEL model, which sourced the data from Symonds (2001)
Note: The capacity model developed by ERM for this study does not include the capacity provided in the 'Others' group in its calculations because these are not relevant to the management of MSW, C&I and C&D. These data are included for the purposes of completeness.

SE Region

DATA_08: RESIDUE RATES (%)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Recovery residues (% by weight)																					
MSW and C&I incineration (non-specialist) - bottom ash	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
MSW and C&I incineration (non-specialist) - fly ash	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
MSW and C&I to MBT	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59
MSW and C&I to RDF	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
MSW and C&I treatment - non-hazardous	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45
MSW and C&I treatment - hazardous	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Hazardous waste recovery	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Recycling residues (% by weight)																					
MSW and C&I recycling	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
(2) MSW and C&I transfer	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
MSW and C&I composting	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
C&D recycling	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Hazardous waste recycling	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Other																					
Metal/ELV facility	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Ignored	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Closed	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Note: The capacity model developed by ERM for this study does not include the capacity provided in the 'Others' group in its calculations because these are not relevant to the management of MSW, C&I and C&D. These data are included for the purposes of completeness.

DATA_09: TOTAL RESIDUE (Million Tonnes)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Recovery residues (of waste managed):																					
MSW and C&I incineration (non-specialist) - bottom ash	0.408	0.443	0.481	0.519	0.561	0.612	0.696	0.784	0.874	0.954	1.036	1.071	1.106	1.142	1.179	1.217	1.204	1.189	1.174	1.159	1.143
MSW and C&I incineration (non-specialist) - fly ash	0.041	0.044	0.048	0.052	0.056	0.061	0.070	0.078	0.087	0.095	0.104	0.107	0.111	0.114	0.118	0.122	0.120	0.119	0.117	0.116	0.114
MSW and C&I to MBT	0.802	0.872	0.945	1.021	1.104	1.204	1.370	1.541	1.718	1.876	2.037	2.106	2.176	2.247	2.319	2.394	2.367	2.339	2.310	2.279	2.248
MSW and C&I to RDF	0.163	0.177	0.192	0.208	0.224	0.245	0.279	0.313	0.349	0.382	0.414	0.428	0.442	0.457	0.472	0.487	0.481	0.476	0.470	0.464	0.457
MSW and C&I treatment - non-hazardous	0.612	0.665	0.721	0.779	0.842	0.918	1.045	1.176	1.310	1.431	1.554	1.606	1.659	1.714	1.769	1.826	1.806	1.784	1.762	1.738	1.715
MSW and C&I treatment - hazardous	0.068	0.074	0.080	0.087	0.094	0.102	0.116	0.131	0.146	0.159	0.173	0.178	0.184	0.190	0.197	0.203	0.201	0.198	0.196	0.193	0.191
Hazardous waste recovery	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Recycling residues (of waste managed):																					
MSW and C&I recycling and composting	0.695	0.751	0.811	0.872	0.939	1.020	1.076	1.132	1.189	1.233	1.279	1.321	1.364	1.408	1.452	1.499	1.542	1.587	1.632	1.679	1.726
C&D recycling	0.546	0.558	0.570	0.582	0.595	0.607	0.607	0.607	0.607	0.607	0.607	0.631	0.655	0.679	0.704	0.728	0.728	0.728	0.728	0.728	0.728
Hazardous waste recycling	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Note: All residues are calculated on the amount of waste arising not on the maount of capacity available. This is complaince with the self-sufficiency requirements of PPS10.

DATA_10: TOTAL MSW AND C&I RESIDUE FROM RECYCLING SENT TO NON-HAZARDOUS LANDFILL (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Total MSW and C&I recycling and composting residue sent to non-hazardous landfill	1.241	1.310	1.381	1.454	1.534	1.627	1.682	1.739	1.796	1.840	1.886	1.952	2.019	2.087	2.156	2.227	2.270	2.315	2.360	2.407	2.454

DATA_11: TOTAL MSW AND C&I RESIDUE FROM RECOVERY SENT TO NON-HAZARDOUS LANDFILL AND C&D RECYCLING (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
SCENARIO 1 - Assumes all recovery is by 'Non-specialist incineration' (based on total recovery capacity)																					
(1) Total MSW and C&I residue sent to non-hazardous landfill assuming all MSW and C&I recovery by 'Non-specialist incineration'	0.204	0.222	0.240	0.260	0.281	0.306	0.348	0.392	0.437	0.477	0.518	0.535	0.553	0.571	0.590	0.609	0.602	0.595	0.587	0.579	0.572
(1) Total MSW and C&I residue sent to inert landfill assuming all MSW and C&I recovery by 'Non-specialist incineration'	0.204	0.222	0.240	0.260	0.281	0.306	0.348	0.392	0.437	0.477	0.518	0.535	0.553	0.571	0.590	0.609	0.602	0.595	0.587	0.579	0.572
SCENARIO 2 - Assumes all recovery is by 'MBT' (based on total recovery capacity)																					
Total MSW and C&I residue sent to non-hazardous landfill	0.802	0.872	0.945	1.021	1.104	1.204	1.370	1.541	1.718	1.876	2.037	2.106	2.176	2.247	2.319	2.394	2.367	2.339	2.310	2.279	2.248
SCENARIO 3 - Assumes all recovery is by 'RDF' (based on total recovery capacity)																					
Total MSW and C&I residue sent to non-hazardous landfill	0.163	0.177	0.192	0.208	0.224	0.245	0.279	0.313	0.349	0.382	0.414	0.428	0.442	0.457	0.472	0.487	0.481	0.476	0.470	0.464	0.457
SCENARIO 4 - Assumes all recovery is by 'treatment' (based on total recovery capacity)																					
Total MSW and C&I residue sent to non-hazardous landfill	0.612	0.665	0.721	0.779	0.842	0.918	1.045	1.176	1.310	1.431	1.554	1.606	1.659	1.714	1.769	1.826	1.806	1.784	1.762	1.738	1.715

(1) It was assumed that 50% of residue from 'non-specialist incineration' is sent to non-hazardous landfill and 50% is sent to inert landfill. In the original model assumptions developed MEL 50% was assumed to go to C&D recycling, rather than to inert landfi

DATA_12: TONNAGES OF C&D REUSED ON NON-HAZARDOUS AND INERT LANDFILL (Million Tonnes)

(1) C&D reused on landfill sites	39 %
(1) C&D reused on exempt sites	61 %
(1) C&D reused on landfill sites sent to 'non-haz landfill'	30 %
(1) C&D reused on landfill sites sent to 'inert landfill'	70 %

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
c&d	Total C&D reused on non-hazardous landfill	0.508	0.500	0.491	0.483	0.474	0.466	0.474	0.483	0.491	0.500	0.508	0.486	0.463	0.441	0.418	0.395	0.401	0.407	0.412	0.418	0.424
	Total reused C&D on inert landfill	1.186	1.166	1.147	1.127	1.107	1.087	1.107	1.127	1.147	1.166	1.186	1.133	1.081	1.028	0.975	0.923	0.936	0.949	0.962	0.975	0.988

(1) C&D reuse rates based on original model assumptions developed MEL
NOTE: C&D reuse on inert and non-hazardous landfill is not included within the charts because it has been assumed that data supplied by each sub-region has accounted for C&D reuse as an engineering material.

DATA_13: TOTAL MSW AND C&I RESIDUE FROM RECYCLING SENT TO HAZARDOUS LANDFILL (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Total MSW and C&I recycling and composting residue sent to hazardous landfill	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

DATA_14: TOTAL MSW AND C&I RESIDUE FROM RECOVERY SENT TO HAZARDOUS LANDFILL (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
SCENARIO 1 - Assumes all recovery is by 'Non-specialist incineration' (based on total recovery capacity)																					
Total MSW and C&I residue sent to hazardous landfill assuming all MSW and C&I recovery by 'Non-specialist incineration'	0.041	0.044	0.048	0.052	0.056	0.061	0.070	0.078	0.087	0.095	0.104	0.107	0.111	0.114	0.118	0.122	0.120	0.119	0.117	0.116	0.114
SCENARIO 2 - Assumes all recovery is by 'MBT' (based on total recovery capacity)																					
Total MSW and C&I residue sent to hazardous landfill	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SCENARIO 3 - Assumes all recovery is by 'RDF' (based on total recovery capacity)																					
Total MSW and C&I residue sent to hazardous landfill	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SCENARIO 4 - Assumes all recovery is by 'treatment' (based on total recovery capacity)																					
Total MSW and C&I residue sent to hazardous landfill	0.068	0.074	0.080	0.087	0.094	0.102	0.116	0.131	0.146	0.159	0.173	0.178	0.184	0.190	0.197	0.203	0.201	0.198	0.196	0.193	0.191

NOTE: This element of the model is redundant. There is currently no hazardous waste capacity figures to generate a chart of managed waste versus available capacity.

DATA_15: TOTAL HAZARDOUS WASTE RESIDUE FROM RECOVERY AND RECYCLING SENT TO HAZARDOUS LANDFILL (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Total hazardous waste recycling and recovery residue sent to hazardous landfill	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

SE Region

CHART_06

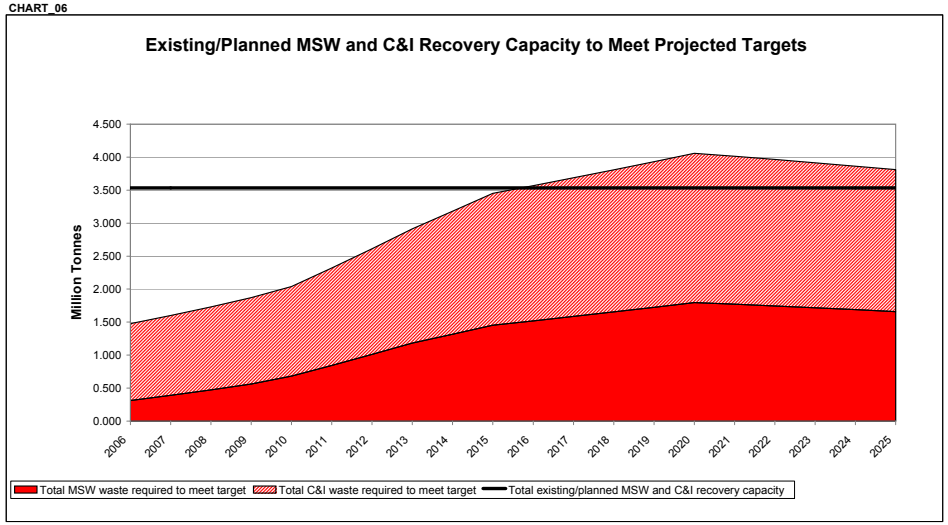


CHART_07

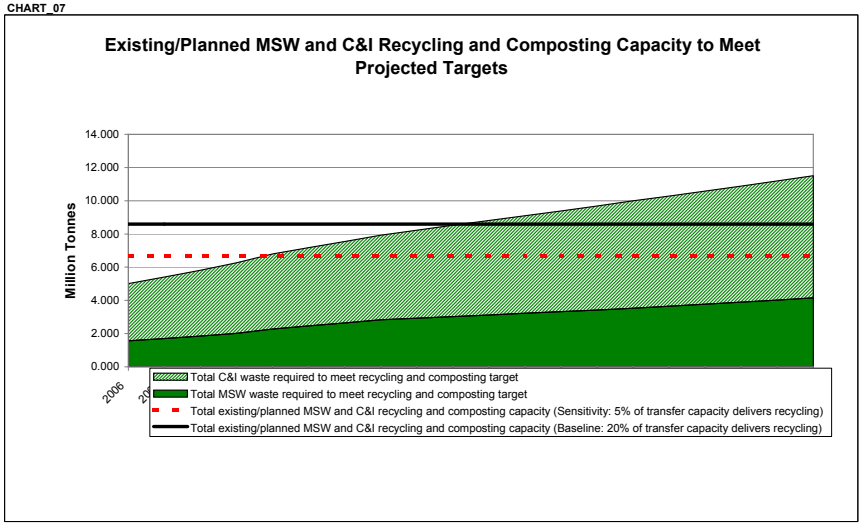
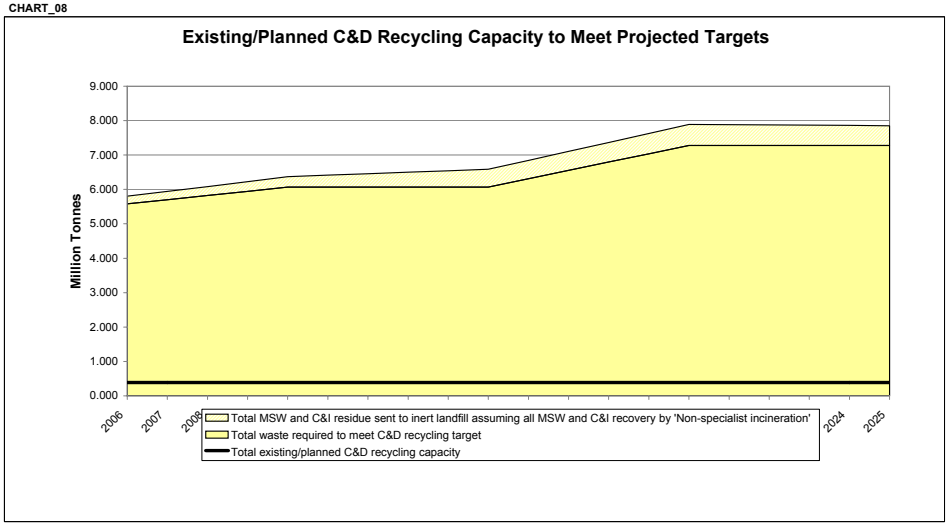


CHART_08



SE Region

CHART_09

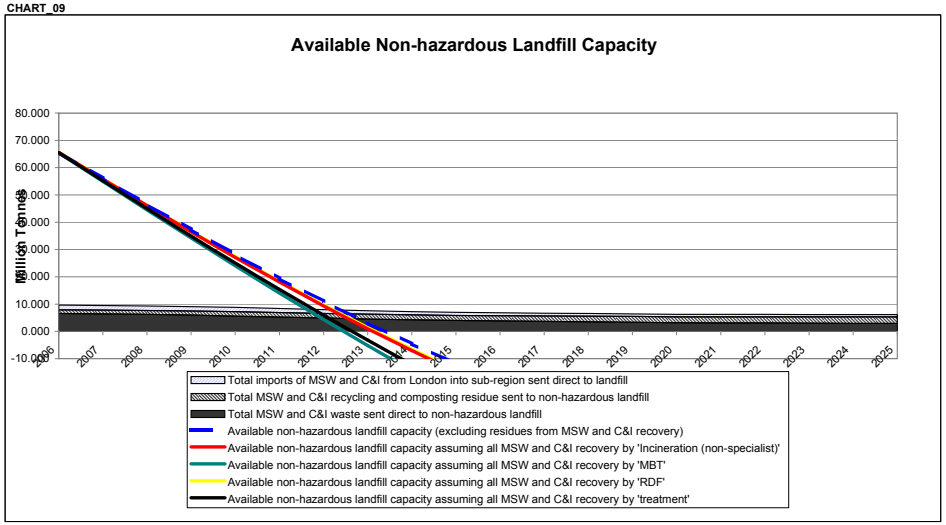
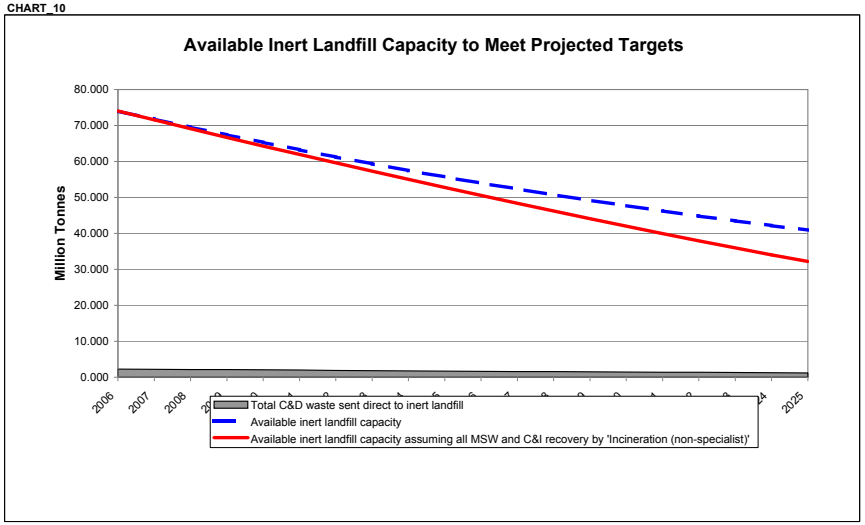
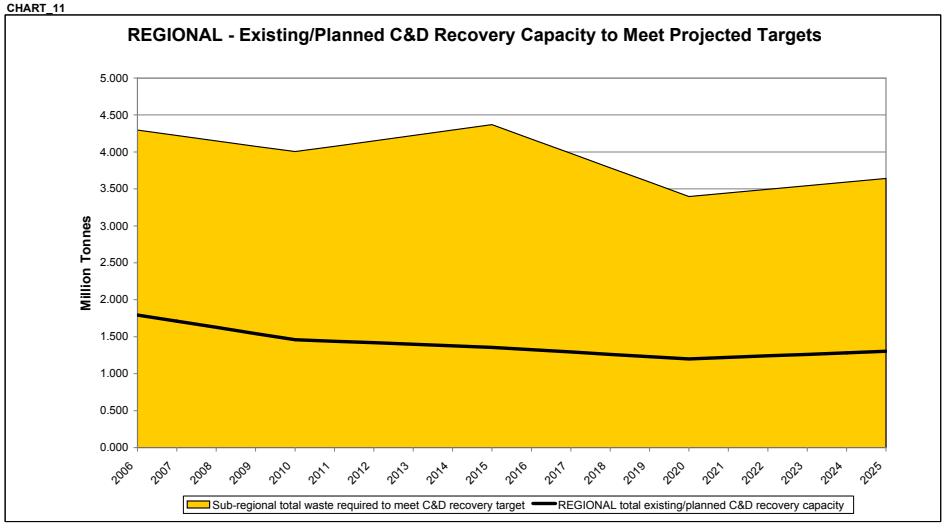


CHART_10



NOTE: The graph assumes that the baseline capacity for non-hazardous landfill has accounted for C&D reuse as a landfill engineering material.

CHART_11



Berkshire

SUMMARY DATA AND RESULTS FOR BERKSHIRE

MANAGED WASTE USED TO GENERATE RESULTS (Million Tonnes)	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	0.475	0.487	0.499	0.512	0.525	0.535	0.546	0.557	0.568	0.579	0.588	0.597	0.606	0.615	0.624	0.633	0.643	0.652	0.662	0.672
msw - imports from london that are sent direct to non-hazardous landfill	0.055	0.054	0.052	0.051	0.049	0.047	0.044	0.041	0.038	0.036	0.034	0.033	0.031	0.030	0.028	0.028	0.027	0.027	0.026	0.025
c&i	0.784	0.804	0.824	0.844	0.865	0.883	0.900	0.918	0.937	0.956	0.970	0.984	0.999	1.014	1.029	1.040	1.050	1.061	1.071	1.082
c&i - imports from london that are sent direct to non-hazardous landfill	0.091	0.088	0.086	0.084	0.082	0.077	0.072	0.068	0.063	0.059	0.056	0.054	0.051	0.049	0.047	0.045	0.044	0.043	0.042	0.041
c&d	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801
hazardous	0.039	0.040	0.041	0.042	0.043	0.044	0.045	0.046	0.047	0.048	0.048	0.049	0.050	0.051	0.051	0.052	0.052	0.053	0.053	0.054

WASTE STREAM TONNAGES TO MEET TARGETS (Million Tonnes)		2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	LATS shortfall (how much extra is landfilled above LATS target)	-0.072	-0.064	-0.052	-0.036	-0.015	-0.007	0.001	0.008	-0.001	-0.011	-0.011	-0.012	-0.013	-0.014	-0.015	-0.014	-0.014	-0.014	-0.014	-0.014
	Recycling and composting target	0.152	0.166	0.180	0.194	0.210	0.225	0.241	0.261	0.273	0.290	0.300	0.310	0.321	0.332	0.343	0.355	0.366	0.378	0.391	0.403
	Recovery target	0.030	0.038	0.046	0.054	0.063	0.077	0.092	0.109	0.123	0.139	0.146	0.153	0.160	0.167	0.175	0.172	0.170	0.167	0.164	0.161
	Non-hazardous landfill	0.293	0.283	0.274	0.263	0.252	0.233	0.213	0.186	0.173	0.151	0.142	0.134	0.125	0.116	0.106	0.106	0.107	0.107	0.107	0.108
c&i	Recycling and composting target	0.329	0.354	0.379	0.405	0.433	0.450	0.468	0.487	0.506	0.526	0.543	0.561	0.580	0.598	0.618	0.634	0.651	0.668	0.686	0.703
	Recovery target	0.111	0.116	0.120	0.125	0.130	0.141	0.153	0.165	0.178	0.191	0.196	0.201	0.206	0.211	0.216	0.214	0.212	0.210	0.208	0.206
	Non-hazardous landfill	0.343	0.334	0.325	0.314	0.303	0.291	0.279	0.266	0.253	0.239	0.231	0.222	0.214	0.205	0.196	0.191	0.187	0.182	0.178	0.173
c&d	Recycling target	0.829	0.847	0.865	0.883	0.901	0.901	0.901	0.901	0.901	0.901	0.937	0.973	1.009	1.045	1.081	1.081	1.081	1.081	1.081	1.081
	Recovery target	0.638	0.627	0.616	0.605	0.594	0.605	0.616	0.627	0.638	0.649	0.620	0.591	0.562	0.533	0.504	0.512	0.519	0.526	0.533	0.540
	Inert landfill	0.335	0.328	0.321	0.313	0.306	0.295	0.285	0.274	0.263	0.252	0.245	0.238	0.231	0.223	0.216	0.209	0.202	0.195	0.187	0.180
hazardous	Hazardous waste	0.039	0.040	0.041	0.042	0.043	0.044	0.045	0.046	0.047	0.048	0.048	0.049	0.050	0.051	0.051	0.052	0.052	0.053	0.053	0.054

Note: If there is a LATS shortfall, denoted by a positive number, (ie insufficient allowance to landfill non-diverted waste) then the model assumes that this extra waste is recycled/composted and recovered at the same ratio as the regional targets for recycling/composting and recovery for that year.

EXISTING/PLANNED CAPACITY FOR RECYCLING, RECOVERY AND LANDFILLING AND TOTAL WASTE TONNAGES TO EACH DISPOSAL ROUTE (Million Tonnes)		2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
MSW and C&I recovery																					
	Total existing/planned MSW and C&I recovery capacity	0.300	0.300	0.300	0.300	0.300	0.300	0.300	0.300	0.300	0.300	0.300	0.300	0.300	0.300	0.300	0.300	0.300	0.300	0.300	0.300
	Surplus/deficit capacity	0.158	0.146	0.134	0.121	0.107	0.082	0.055	0.025	-0.001	-0.030	-0.042	-0.054	-0.066	-0.078	-0.091	-0.087	-0.082	-0.077	-0.072	-0.067
MSW and C&I recycling and composting																					
	Total existing/planned MSW and C&I recycling and composting capacity (Baseline: 20% of transfer capacity delivers recycling)	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820
	Total existing/planned MSW and C&I recycling and composting capacity (Sensitivity: 5% of transfer capacity delivers recycling)	0.682	0.682	0.682	0.682	0.682	0.682	0.682	0.682	0.682	0.682	0.682	0.682	0.682	0.682	0.682	0.682	0.682	0.682	0.682	0.682
	Surplus/deficit capacity (Baseline: 20% of transfer capacity delivers recycling)	0.338	0.300	0.261	0.220	0.177	0.145	0.111	0.071	0.041	0.005	-0.023	-0.052	-0.081	-0.111	-0.141	-0.169	-0.198	-0.227	-0.257	-0.287
	Surplus/deficit capacity (Sensitivity: 5% of transfer capacity delivers recycling)	0.201	0.163	0.123	0.082	0.039	0.007	-0.027	-0.066	-0.097	-0.133	-0.161	-0.189	-0.219	-0.248	-0.279	-0.307	-0.336	-0.365	-0.394	-0.425
C&D recycling																					
	Total existing/planned C&D recycling capacity	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043
	Surplus/deficit capacity	-0.786	-0.804	-0.822	-0.840	-0.858	-0.858	-0.858	-0.858	-0.858	-0.858	-0.894	-0.930	-0.966	-1.002	-1.038	-1.038	-1.038	-1.038	-1.038	-1.038
C&D recovery																					
	REGIONAL total existing/planned C&D recovery capacity	1.794	1.710	1.627	1.544	1.460	1.439	1.418	1.398	1.377	1.356	1.325	1.293	1.262	1.231	1.199	1.220	1.241	1.262	1.283	1.304
	Surplus/deficit capacity	1.156	1.083	1.011	0.938	0.866	0.834	0.802	0.771	0.739	0.707	0.705	0.702	0.700	0.697	0.695	0.709	0.722	0.736	0.750	0.763
Hazardous waste recycling																					
	Total existing/planned hazardous waste recycling capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Surplus/deficit capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hazardous waste recovery																					
	Total existing/planned hazardous waste recovery capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Surplus/deficit capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Non-hazardous landfill																					
	Available non-hazardous landfill capacity (excluding residues from MSW and C&I recovery)	0.055	-0.882	-1.805	-2.711	-3.601	-4.473	-5.313	-6.118	-6.882	-7.616	-8.312	-8.996	-9.666	-10.323	-10.967	-11.595	-12.222	-12.848	-13.472	-14.095
	Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'Incineration (non-specialist)'	0.055	-0.903	-1.849	-2.781	-3.698	-4.599	-5.471	-6.313	-7.117	-7.897	-8.642	-9.377	-10.101	-10.813	-11.513	-12.200	-12.885	-13.568	-14.249	-14.927
	Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'MBT'	0.055	-0.966	-1.979	-2.984	-3.980	-4.965	-5.934	-6.883	-7.809	-8.720	-9.611	-10.496	-11.376	-12.249	-13.115	-13.974	-14.829	-15.680	-16.527	-17.369
	Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'RDF'	0.055	-0.899	-1.840	-2.767	-3.678	-4.574	-5.439	-6.274	-7.070	-7.840	-8.576	-9.301	-10.014	-10.715	-11.403	-12.079	-12.753	-13.424	-14.094	-14.761
	Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'treatment'	0.055	-0.946	-1.938	-2.919	-3.890	-4.849	-5.786	-6.702	-7.589	-8.458	-9.303	-10.140	-10.970	-11.792	-12.605	-13.410	-14.211	-15.008	-15.802	-16.592
Inert landfill																					
	Available inert landfill capacity	0.181	-0.154	-0.481	-0.802	-1.116	-1.422	-1.717	-2.002	-2.276	-2.539	-2.791	-3.036	-3.274	-3.504	-3.728	-3.944	-4.153	-4.355	-4.549	-4.737
	Available inert landfill capacity assuming all MSW and C&I recovery by 'Incineration (non-specialist)'	0.181	-0.175	-0.526	-0.871	-1.212	-1.547	-1.875	-2.196	-2.511	-2.820	-3.121	-3.418	-3.708	-3.994	-4.274	-4.549	-4.816	-5.075	-5.326	-5.569
Hazardous landfill																					
	Available hazardous landfill capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Note: The model does not contain data for the management of hazardous waste.																				

DATA_01: ARISINGS AND GROWTH RATES OF MSW, C&I AND HAZARDOUS WASTE (Million Tonnes)		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	Arisings of MSW in baseline year																					
	(1) Forecast regional level growth rate of MSW - per year (%)	3.0%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%
	(1) Forecast regional level growth rate of MSW - cumulative (%)	106%	109%	111%	114%	117%	120%	122%	125%	127%	130%	133%	135%	137%	139%	141%	143%	145%	147%	149%	152%	154%
	Total arisings of MSW using regional growth forecasts	0.464	0.475	0.487	0.499	0.512	0.525	0.535	0.546	0.557	0.568	0.579	0.588	0.597	0.606	0.615	0.624	0.633	0.643	0.652	0.662	0.672
	(1) Forecast sub-regional growth rate of MSW - per year (%)	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%
	(1) Forecast sub-regional level growth rate of MSW - cumulative (%)	104%	106%	108%	110%	113%	115%	117%	120%	122%	124%	127%	129%	131%	133%	135%	137%	139%	141%	143%	145%	147%
	Total arisings of MSW using sub-regional growth forecasts	0.455	0.464	0.473	0.482	0.492	0.502	0.512	0.522	0.533	0.543	0.554	0.563	0.571	0.580	0.588	0.597	0.606	0.615	0.624	0.634	0.643
c&i	Arisings of C&I in baseline year																					
	(1) Forecast regional level growth rate of C&I - per year (%)	3.3%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.0%	1.0%	1.0%	1.0%	1.0%
	(1) Forecast regional level growth rate of C&I - cumulative (%)	117%	120%	123%	126%	130%	133%	136%	138%	141%	144%	147%	149%	151%	153%	156%	158%	160%	161%	163%	164%	166%
	Total arisings of C&I using regional growth forecasts	0.765	0.784	0.804	0.824	0.844	0.865	0.883	0.900	0.918	0.937	0.956	0.970	0.984	0.999	1.014	1.029	1.040	1.050	1.061	1.071	1.082
	(1) Forecast sub-regional level growth rate of C&I - per year (%)	3.3%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.0%	1.0%	1.0%	1.0%	1.0%
	(1) Forecast sub-regional level growth rate of C&I - cumulative (%)	117%	120%	123%	126%	130%	133%	136%	138%	141%	144%	147%	149%	151%	153%	156%	158%	160%	161%	163%	164%	166%
	Total arisings of C&I using sub-regional growth forecasts	0.765	0.784	0.804	0.824	0.844	0.865	0.883	0.900	0.918	0.937	0.956	0.970	0.984	0.999	1.014	1.029	1.040	1.050	1.061	1.071	1.082
hazardous	Arisings of hazardous waste in baseline year																					
	(2) Forecast regional level growth rate of hazardous waste - per year (%)	3.3%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.0%	1.0%	1.0%	1.0%	1.0%
	Forecast regional level growth rate of hazardous waste - cumulative (%)	107%	109%	112%	115%	118%	121%	123%	126%	128%	131%	133%	135%	137%	139%	141%	144%	145%	146%	148%	149%	151%
	Total arisings of hazardous waste	0.038	0.039	0.040	0.041	0.042	0.043	0.044	0.045	0.046	0.047	0.048	0.048	0.049	0.050	0.051	0.051	0.052	0.052	0.053	0.053	0.054
	(2) Forecast sub-regional level growth rate of hazardous waste - per year (%)	3.3%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.0%	1.0%	1.0%	1.0%	1.0%
	Forecast sub regional level growth rate of hazardous waste - cumulative (%)	107%	109%	112%	115%	118%	121%	123%	126%	128%	131%	133%	135%	137%	139%	141%	144%	145%	146%	148%	149%	151%
	Total arisings of hazardous waste	0.038	0.039	0.040	0.041	0.042	0.043	0.044	0.045	0.046	0.047	0.048	0.048	0.049	0.050	0.051	0.051	0.052	0.052	0.053	0.053	0.054
c&d	Total managed C&D in baseline year																					
	(3) Forecast regional-level growth rate of managed C&D - per year (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Forecast regional-level growth rate of managed C&D - cumulative (%)	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
	(3) Total managed of C&D for the sub-region	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801

(1) Figures from SEERA updated waste capacity model by ERM in 2005.
(2) Baseline year of hazardous waste arisings is 2003 from EA Hazardous Waste Interrogator. www.environment-agency.gov.uk/apps/wastesurvey2/. ERM has assumed that growth in hazardous waste is equal to C&I waste.
(3) These data represent managed C&D waste in the sub-region, including all intra-regional and inter-regional movements. Growth is assumed to be zero from the orginal MEL study and updated modeted by ERM in 2005.
NOTE: C&D waste is not included in arisings because this was taken from survey data by Symonds 2001 which gave values for managed C&D waste.

Berkshire

Figures in blue represent data supplied by each sub-region for the new '2006 SEERA Capacity and Need Model'
Figures in orange represent managed waste that are used by the model to calculate results. These can be adjusted for different scenarios.

DATA_02: INTER REGIONAL MOVEMENTS OF MSW and C&I (Million Tonnes)		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw and c&i	Regional level imports of MSW and C&I waste into the SE region from London	1.76	1.716	1.672	1.628	1.584	1.54	1.454	1.368	1.282	1.196	1.11	1.064	1.018	0.972	0.926	0.88	0.86	0.84	0.82	0.8	0.78
	Proportion of regional MSW and C&I imports that go to the sub-region (%)	8.5%	8.5%	8.5%	8.5%	8.5%	8.5%	8.5%	8.5%	8.5%	8.5%	8.5%	8.5%	8.5%	8.5%	8.5%	8.5%	8.5%	8.5%	8.5%	8.5%	8.5%
	(1) Total imports of MSW and C&I from London into sub-region sent direct to landfill	0.150	0.146	0.142	0.138	0.135	0.131	0.124	0.116	0.109	0.102	0.094	0.090	0.087	0.083	0.079	0.075	0.073	0.071	0.070	0.068	0.066
msw	Proportion of total MSW and C&I imports that are MSW (%) - REGIONAL GROWTH FORECAST	38%	38%	38%	38%	38%	38%	38%	38%	38%	38%	38%	38%	38%	38%	38%	38%	38%	38%	38%	38%	38%
	Total imports of MSW into the sub-region from London - REGIONAL GROWTH FORECAST	0.056	0.055	0.054	0.052	0.051	0.049	0.047	0.044	0.041	0.038	0.036	0.034	0.033	0.031	0.030	0.028	0.028	0.027	0.027	0.026	0.025
	Proportion of total MSW and C&I imports that are MSW (%) - SUB-REGIONAL GROWTH FORECAST	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%
	Total imports of MSW into the sub-region from London - SUB-REGIONAL GROWTH FORECAST	0.056	0.054	0.053	0.051	0.050	0.048	0.045	0.043	0.040	0.037	0.035	0.033	0.032	0.030	0.029	0.027	0.027	0.026	0.026	0.025	0.025
c&i	Proportion of total MSW and C&I imports that are C&I (%) - REGIONAL GROWTH FORECAST	62%	62%	62%	62%	62%	62%	62%	62%	62%	62%	62%	62%	62%	62%	62%	62%	62%	62%	62%	62%	62%
	Total imports of C&I into the sub-region from London - REGIONAL GROWTH FORECAST	0.093	0.091	0.088	0.086	0.084	0.082	0.077	0.072	0.068	0.063	0.059	0.056	0.054	0.051	0.049	0.047	0.045	0.044	0.043	0.042	0.041
	Proportion of total MSW and C&I imports that are C&I (%) - SUB-REGIONAL GROWTH FORECAST	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%
	Total imports of C&I into the sub-region from London - SUB-REGIONAL GROWTH FORECAST	0.094	0.092	0.089	0.087	0.085	0.083	0.078	0.074	0.069	0.064	0.060	0.057	0.055	0.052	0.050	0.047	0.046	0.045	0.044	0.043	0.042

(1) Intra-regional and inter-regional movements have been excluded for MSW and C&I waste due to self-sufficiency requirements under PPS10, except for inter-regional movements from London into the sub-region. Apportionment from Policy W3 in the Plan – downloa
Note: Only a figure is available for total combined imports of MSW and C&I waste. ERM has assumed that imports of the seperate waste streams of MSW and C&I was split according to tonnage arisings of MSW and C&I in the sub-region.

DATA_03: MANAGED WASTE USED TO GENERATE RESULTS (Million Tonnes)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	0.464	0.475	0.487	0.499	0.512	0.525	0.535	0.546	0.557	0.568	0.579	0.588	0.597	0.606	0.615	0.624	0.633	0.643	0.652	0.662	0.672
msw - imports from london that are sent direct to non-hazardous landfill	0.056	0.055	0.054	0.052	0.051	0.049	0.047	0.044	0.041	0.038	0.036	0.034	0.033	0.031	0.030	0.028	0.028	0.027	0.027	0.026	0.025
c&i	0.765	0.784	0.804	0.824	0.844	0.865	0.883	0.900	0.918	0.937	0.956	0.970	0.984	0.999	1.014	1.029	1.040	1.050	1.061	1.071	1.082
c&i - imports from london that are sent direct to non-hazardous landfill	0.093	0.091	0.088	0.086	0.084	0.082	0.077	0.072	0.068	0.063	0.059	0.056	0.054	0.051	0.049	0.047	0.045	0.044	0.043	0.042	0.041
c&d	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801	1.801
hazardous	0.038	0.039	0.040	0.041	0.042	0.043	0.044	0.045	0.046	0.047	0.048	0.048	0.049	0.050	0.051	0.051	0.052	0.052	0.053	0.053	0.054

DATA_04: TARGETS (% or Million Tonnes)		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	(1) landfill (Mt)	0.281	0.271	0.257	0.238	0.215	0.186	0.165	0.145	0.124	0.119	0.113	0.108	0.103	0.097	0.092	0.087	0.087	0.087	0.087	0.087	0.087
	recovered (%)	5	6.4	7.8	9.2	10.6	12	14.4	16.8	19.2	21.6	24	24.8	25.6	26.4	27.2	28	27.2	26.4	25.6	24.8	24
	recycled and composted (%)	30	32.0	34.0	36.0	38.0	40	42.0	44.0	46.0	48.0	50	51.0	52.0	53.0	54.0	55	56.0	57.0	58.0	59.0	60
c&i	recovered (%)	14	14.2	14.4	14.6	14.8	15	16.0	17.0	18.0	19.0	20	20.2	20.4	20.6	20.8	21	20.6	20.2	19.8	19.4	19
	recycled and composted (%)	40	42.0	44.0	46.0	48.0	50	51.0	52.0	53.0	54.0	55	56.0	57.0	58.0	59.0	60	61.0	62.0	63.0	64.0	65
c&d	recovered (%)	36	35.4	34.8	34.2	33.6	33	33.6	34.2	34.8	35.4	36	34.4	32.8	31.2	29.6	28	28.4	28.8	29.2	29.6	30
	recycled (%)	45	46.0	47.0	48.0	49.0	50	50.0	50.0	50.0	50.0	50	52.0	54.0	56.0	58.0	60	60.0	60.0	60.0	60.0	60
hazardous	landfill (%)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	recovered (%)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	recycled (%)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

(1) ERM has assumed that the LATS target allowance remains constant at the 2020 value for the years beyond 2020

DATA_05: WASTE STREAM TONNAGES TO MEET TARGETS (Million Tonnes)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025

This first section of DATA_03 calculates if there is a LATS shortfall or suplus in each year. If there is a LATS shortfall (ie insufficient allowance to landfill non-diverted waste) then the model assumes that this extra waste is recycled/composted and r

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	Total MSW to be recovered and recycled/composted to meet target	0.162	0.182	0.204	0.226	0.249	0.273	0.302	0.332	0.363	0.395	0.429	0.446	0.463	0.481	0.499	0.518	0.527	0.536	0.545	0.555	0.565
	Total MSW not-diverted by targets	0.301	0.293	0.283	0.274	0.263	0.252	0.233	0.214	0.194	0.173	0.151	0.142	0.134	0.125	0.116	0.106	0.106	0.107	0.107	0.107	0.108
	Percentage of MSW that is biodegradable (% by weight)	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68
	Total BMW not-diverted by targets	0.205	0.199	0.193	0.186	0.179	0.171	0.159	0.145	0.132	0.117	0.102	0.097	0.091	0.085	0.079	0.072	0.072	0.073	0.073	0.073	0.073
	LATS shortfall (how much extra is landfilled above LATS target)	-0.076	-0.072	-0.064	-0.052	-0.036	-0.015	-0.007	0.001	0.008	-0.001	-0.011	-0.011	-0.012	-0.013	-0.014	-0.015	-0.014	-0.014	-0.014	-0.014	-0.014
	Ratio of 'recovered' to 'recycled/composted' for target (%)	14%	17%	19%	20%	22%	23%	26%	28%	29%	31%	32%	33%	33%	33%	33%	34%	33%	32%	31%	30%	29%
	Extra MSW 'recovery' needed due to LATS shortfall	0.000	0.000	0.000	0.000	0.000	0.000	0.000	*0.000*	*0.002*	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Extra MSW 'recycling/composting' needed due to LATS shortfall	0.000	0.000	0.000	0.000	0.000	0.000	0.000	*0.001*	*0.005*	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

The section below in DATA_03 shows the tonnages by waste to meet targets.

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	Recycling and composting target	0.139	0.152	0.166	0.180	0.194	0.210	0.225	0.241	0.261	0.273	0.290	0.300	0.310	0.321	0.332	0.343	0.355	0.366	0.378	0.391	0.403
	Recovery target	0.023	0.030	0.038	0.046	0.054	0.063	0.077	0.092	0.109	0.123	0.139	0.146	0.153	0.160	0.167	0.175	0.172	0.170	0.167	0.164	0.161
	Non-hazardous landfill	0.301	0.293	0.283	0.274	0.263	0.252	0.233	0.213	0.186	0.173	0.151	0.142	0.134	0.125	0.116	0.106	0.106	0.107	0.107	0.107	0.108
	CHECK COUNTER (should be zero)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
c&i	Recycling and composting target	0.306	0.329	0.354	0.379	0.405	0.433	0.450	0.468	0.487	0.506	0.526	0.543	0.561	0.580	0.598	0.618	0.634	0.651	0.668	0.686	0.703
	Recovery target	0.107	0.111	0.116	0.120	0.125	0.130	0.141	0.153	0.165	0.178	0.191	0.196	0.201	0.206	0.211	0.216	0.214	0.212	0.210	0.208	0.206
	Non-hazardous landfill	0.352	0.343	0.334	0.325	0.314	0.303	0.291	0.279	0.266	0.253	0.239	0.231	0.222	0.214	0.205	0.196	0.191	0.187	0.182	0.178	0.173
	CHECK COUNTER (should be zero)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

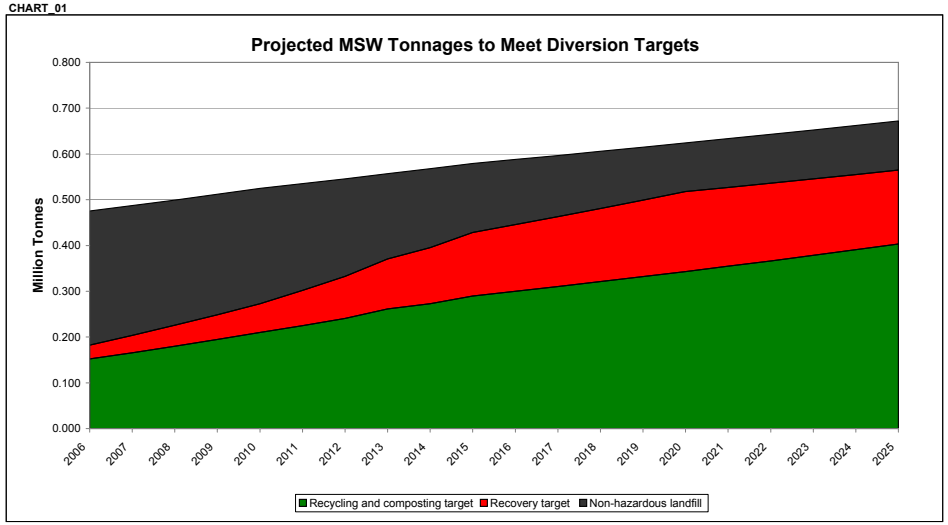
		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
c&d	Recycling target	0.811	0.829	0.847	0.865	0.883	0.901	0.901	0.901	0.901	0.901	0.901	0.937	0.973	1.009	1.045	1.081	1.081	1.081	1.081	1.081	1.081
	Recovery target	0.649	0.638	0.627	0.616	0.605	0.594	0.605	0.616	0.627	0.638	0.649	0.620	0.591	0.562	0.533	0.504	0.512	0.519	0.526	0.533	0.540
	Inert landfill	0.342	0.335	0.328	0.321	0.313	0.306	0.295	0.285	0.274	0.263	0.252	0.245	0.238	0.231	0.223	0.216	0.209	0.202	0.195	0.187	0.180
	CHECK COUNTER (should be zero)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
hazardous	Hazardous waste	0.038	0.039	0.040	0.041	0.042	0.043	0.044	0.045	0.046	0.047	0.048	0.048	0.049	0.050	0.051	0.051	0.052	0.052	0.053	0.053	0.054

DATA_06: TOTAL WASTE TONNAGES TO MEET TARGETS (Million Tonnes)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
MSW and C&I recycling and composting target	0.445	0.481	0.519	0.559	0.600	0.643	0.675	0.709	0.748	0.778	0.815	0.843	0.871	0.901	0.930	0.961	0.989	1.017	1.047	1.076	1.107
C&D recycling target	0.811	0.829	0.847	0.865	0.883	0.901	0.901	0.901	0.901	0.901	0.901	0.937	0.973	1.009	1.045	1.081	1.081	1.081	1.081	1.081	1.081
MSW and C&I recovery target	0.130	0.142	0.154	0.166	0.179	0.193	0.218	0.245	0.274	0.301	0.330	0.342	0.354	0.366	0.378	0.391	0.386	0.382	0.377	0.372	0.367
C&D recovery target	0.649	0.638	0.627	0.616	0.605	0.594	0.605	0.616	0.627	0.638	0.649	0.620	0.591	0.562	0.533	0.504	0.512	0.519	0.526	0.533	0.540
Non-hazardous landfill	0.653	0.636	0.618	0.598	0.577	0.555	0.525	0.492	0.452	0.426	0.389	0.373	0.356	0.339	0.320	0.302	0.298	0.294	0.289	0.285	0.281
Inert landfill	0.342	0.335	0.328	0.321	0.313	0.306	0.295	0.285	0.274	0.263	0.252	0.245	0.238	0.231	0.223	0.216	0.209	0.202	0.195	0.187	0.180
Hazardous waste	0.038	0.039	0.040	0.041	0.042	0.043	0.044	0.045	0.046	0.047	0.048	0.048	0.049	0.050	0.051	0.051	0.052	0.052	0.053	0.053	0.054

Berkshire

CHART_01



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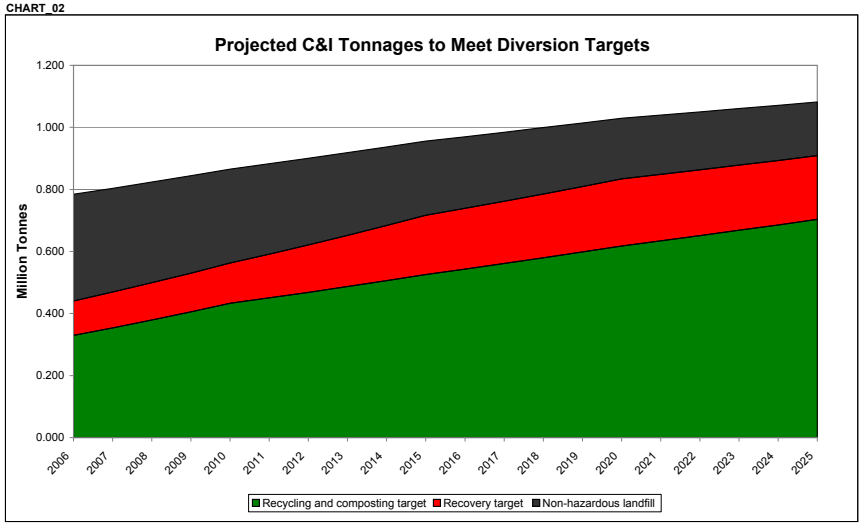

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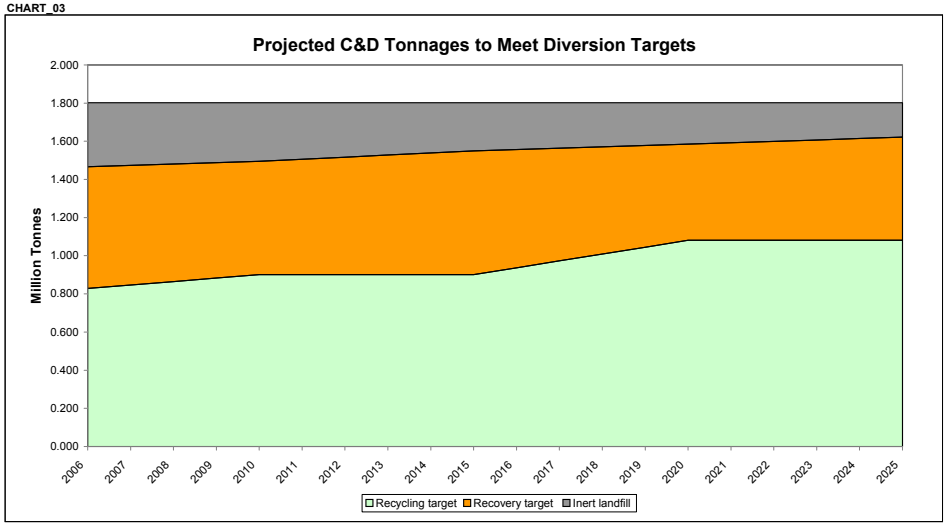

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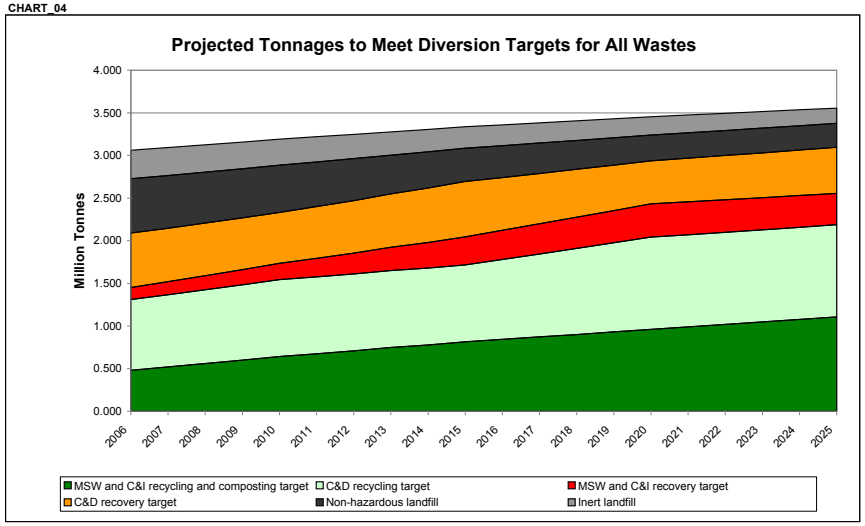
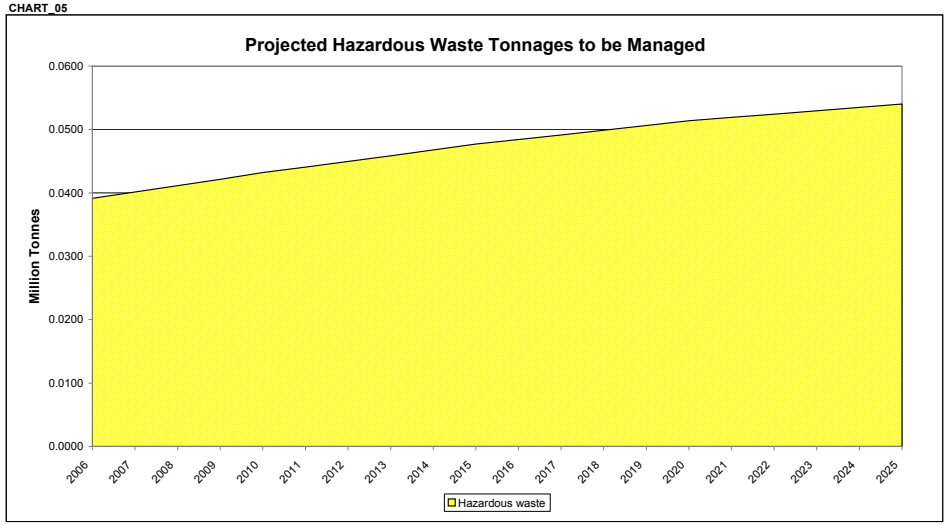


Berkshire

CHART_05



DATA_07: EXISTING/PLANNED CAPACITY FOR RECYCLING, RECOVERY AND LANDFILLING AND TOTAL WASTE TONNAGES TO EACH DISPOSAL ROUTE (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
MSW and C&I recovery																					
MSW and C&I incineration (non-specialist)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
MSW and C&I treatment	0.300	0.300	0.300	0.300	0.300	0.300	0.300	0.300	0.300	0.300	0.300	0.300	0.300	0.300	0.300	0.300	0.300	0.300	0.300	0.300	0.300
Total existing/planned MSW and C&I recovery capacity	0.300	0.300	0.300	0.300	0.300	0.300	0.300	0.300	0.300	0.300	0.300	0.300	0.300	0.300	0.300	0.300	0.300	0.300	0.300	0.300	0.300
Total MSW waste required to meet target	0.023	0.030	0.038	0.046	0.054	0.063	0.077	0.092	0.109	0.123	0.139	0.146	0.153	0.160	0.167	0.175	0.172	0.170	0.167	0.164	0.161
Total C&I waste required to meet target	0.107	0.111	0.116	0.120	0.125	0.130	0.141	0.153	0.165	0.178	0.191	0.196	0.201	0.206	0.211	0.216	0.214	0.212	0.210	0.208	0.206
Surplus/deficit capacity	0.170	0.158	0.146	0.134	0.121	0.107	0.082	0.055	0.025	-0.001	-0.030	-0.042	-0.054	-0.066	-0.078	-0.091	-0.087	-0.082	-0.077	-0.072	-0.067
MSW and C&I recycling and composting																					
MSW and C&I recycling	0.601	0.601	0.601	0.601	0.601	0.601	0.601	0.601	0.601	0.601	0.601	0.601	0.601	0.601	0.601	0.601	0.601	0.601	0.601	0.601	0.601
MSW and C&I transfer	0.918	0.918	0.918	0.918	0.918	0.918	0.918	0.918	0.918	0.918	0.918	0.918	0.918	0.918	0.918	0.918	0.918	0.918	0.918	0.918	0.918
Total existing/planned MSW and C&I composting capacity	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035	0.035
(1) Total existing/planned MSW and C&I recycling and composting capacity (Baseline: 20% of transfer capacity delivers recycling)	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820	0.820
(2) Total existing/planned MSW and C&I recycling and composting capacity (Sensitivity: 5% of transfer capacity delivers recycling)	0.682	0.682	0.682	0.682	0.682	0.682	0.682	0.682	0.682	0.682	0.682	0.682	0.682	0.682	0.682	0.682	0.682	0.682	0.682	0.682	0.682
Total MSW waste required to meet recycling and composting target	0.139	0.152	0.166	0.180	0.194	0.210	0.225	0.241	0.261	0.273	0.290	0.300	0.310	0.321	0.332	0.343	0.355	0.366	0.378	0.391	0.403
Total C&I waste required to meet recycling and composting target	0.306	0.329	0.354	0.379	0.405	0.433	0.450	0.468	0.487	0.506	0.526	0.543	0.561	0.580	0.598	0.618	0.634	0.651	0.668	0.686	0.703
Surplus/deficit capacity (Baseline: 20% of transfer capacity delivers recycling)	0.375	0.338	0.300	0.261	0.220	0.177	0.145	0.111	0.071	0.041	0.005	-0.023	-0.052	-0.081	-0.111	-0.141	-0.169	-0.198	-0.227	-0.257	-0.287
Surplus/deficit capacity (Sensitivity: 5% of transfer capacity delivers recycling)	0.237	0.201	0.163	0.123	0.082	0.039	0.007	-0.027	-0.066	-0.097	-0.133	-0.161	-0.189	-0.219	-0.248	-0.279	-0.307	-0.336	-0.365	-0.394	-0.425
C&D recycling																					
(3) Total existing/planned C&D recycling capacity	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043	0.043
Total waste required to meet C&D recycling target	0.811	0.829	0.847	0.865	0.883	0.901	0.901	0.901	0.901	0.901	0.901	0.937	0.973	1.009	1.045	1.081	1.081	1.081	1.081	1.081	1.081
Surplus/deficit capacity	-0.768	-0.786	-0.804	-0.822	-0.840	-0.858	-0.858	-0.858	-0.858	-0.858	-0.858	-0.894	-0.930	-0.966	-1.002	-1.038	-1.038	-1.038	-1.038	-1.038	-1.038
C&D recovery																					
REGIONAL total existing/planned C&D recovery capacity	1.877	1.794	1.710	1.627	1.544	1.460	1.439	1.418	1.398	1.377	1.356	1.325	1.293	1.262	1.231	1.199	1.220	1.241	1.262	1.283	1.304
Sub-regional total waste required to meet C&D recovery target	0.649	0.638	0.627	0.616	0.605	0.594	0.605	0.616	0.627	0.638	0.649	0.620	0.591	0.562	0.533	0.504	0.512	0.519	0.526	0.533	0.540
Surplus/deficit capacity	1.229	1.156	1.083	1.011	0.938	0.866	0.834	0.802	0.771	0.739	0.707	0.705	0.702	0.700	0.697	0.695	0.709	0.722	0.736	0.750	0.763
Hazardous waste recycling																					
Total existing/planned hazardous waste recycling capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total hazardous waste to be recycled	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Surplus/deficit capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hazardous waste recovery																					
Total existing/planned hazardous waste recovery capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total hazardous waste to be recovered	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Surplus/deficit capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Non-hazardous landfill																					
Available non-hazardous landfill capacity (excluding residues from MSW and C&I recovery)		0.055	-0.882	-1.805	-2.711	-3.601	-4.473	-5.313	-6.118	-6.882	-7.616	-8.312	-8.996	-9.666	-10.323	-10.967	-11.595	-12.222	-12.848	-13.472	-14.095
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'Incineration (non-specialist)'		0.055	-0.903	-1.849	-2.781	-3.698	-4.599	-5.471	-6.313	-7.117	-7.897	-8.642	-9.377	-10.101	-10.813	-11.513	-12.200	-12.885	-13.568	-14.249	-14.927
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'MBT'		0.055	-0.966	-1.979	-2.984	-3.980	-4.965	-5.934	-6.883	-7.809	-8.720	-9.611	-10.496	-11.376	-12.249	-13.115	-13.974	-14.829	-15.680	-16.527	-17.369
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'RDF'		0.055	-0.899	-1.840	-2.767	-3.678	-4.574	-5.439	-6.274	-7.070	-7.840	-8.576	-9.301	-10.014	-10.715	-11.403	-12.079	-12.753	-13.424	-14.094	-14.761
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'treatment'		0.055	-0.946	-1.938	-2.919	-3.890	-4.849	-5.786	-6.702	-7.589	-8.458	-9.303	-10.140	-10.970	-11.792	-12.605	-13.410	-14.211	-15.008	-15.802	-16.592
Total MSW and C&I waste sent direct to non-hazardous landfill		0.636	0.618	0.598	0.577	0.555	0.525	0.492	0.452	0.426	0.389	0.373	0.356	0.339	0.320	0.302	0.298	0.294	0.289	0.285	0.281
Inert landfill																					
Available inert landfill capacity		0.181	-0.154	-0.481	-0.802	-1.116	-1.422	-1.717	-2.002	-2.276	-2.539	-2.791	-3.036	-3.274	-3.504	-3.728	-3.944	-4.153	-4.355	-4.549	-4.737
Available inert landfill capacity assuming all MSW and C&I recovery by 'Incineration (non-specialist)'		0.181	-0.175	-0.526	-0.871	-1.212	-1.547	-1.875	-2.196	-2.511	-2.820	-3.121	-3.418	-3.708	-3.994	-4.274	-4.549	-4.816	-5.075	-5.326	-5.569
Total C&D waste sent direct to inert landfill	0.342	0.335	0.328	0.321	0.313	0.306	0.295	0.285	0.274	0.263	0.252	0.245	0.238	0.231	0.223	0.216	0.209	0.202	0.195	0.187	0.180
Hazardous landfill																					
Available hazardous landfill capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total hazardous waste sent direct to hazardous landfill	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Other																					
Metal/ELV facility	0.182	0.182	0.182	0.182	0.182	0.182	0.182	0.182	0.182	0.182	0.182	0.182	0.182	0.182	0.182	0.182	0.182	0.182	0.182	0.182	0.182
Ignored	1.525	1.525	1.525	1.525	1.525	1.525	1.525	1.525	1.525	1.525	1.525	1.525	1.525	1.525	1.525	1.525	1.525	1.525	1.525	1.525	1.525
Closed	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160	0.160

(1) ERM has assumed that 20% of the total 'transfer' capacity will deliver recycling capacity
(2) ERM has assumed that 5% of the total 'transfer' capacity will deliver recycling capacity
(3) Data for C&D recovery for landfill cover for the SE Region were sourced from the original MEL model, which sourced the data from Symonds (2001)
Note: The capacity model developed by ERM for this study does not include the capacity provided in the 'Others' group in its calculations because these are not relevant to the management of MSW, C&I and C&D. These data are included for the purposes of completeness.

Berkshire

DATA_08: RESIDUE RATES (%)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Recovery residues (% by weight)																					
MSW and C&I incineration (non-specialist) - bottom ash	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
MSW and C&I incineration (non-specialist) - fly ash	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
MSW and C&I to MBT	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59
MSW and C&I to RDF	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
MSW and C&I treatment - non-hazardous	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45
MSW and C&I treatment - hazardous	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Hazardous waste recovery	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Recycling residues (% by weight)																					
MSW and C&I recycling	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
(2) MSW and C&I transfer	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
MSW and C&I composting	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
C&D recycling	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Hazardous waste recycling	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Other																					
Metal/ELV facility	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Ignored	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Closed	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Note: The capacity model developed by ERM for this study does not include the capacity provided in the 'Others' group in its calculations because these are not relevant to the management of MSW, C&I and C&D. These data are included for the purposes of completeness.

DATA_09: TOTAL RESIDUE (Million Tonnes)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Recovery residues (of waste managed):																					
MSW and C&I incineration (non-specialist) - bottom ash	0.039	0.043	0.046	0.050	0.054	0.058	0.065	0.073	0.082	0.090	0.099	0.103	0.106	0.110	0.113	0.117	0.116	0.115	0.113	0.112	0.110
MSW and C&I incineration (non-specialist) - fly ash	0.004	0.004	0.005	0.005	0.005	0.006	0.007	0.007	0.008	0.009	0.010	0.010	0.011	0.011	0.011	0.012	0.012	0.011	0.011	0.011	0.011
MSW and C&I to MBT	0.077	0.084	0.091	0.098	0.106	0.114	0.129	0.145	0.162	0.177	0.195	0.202	0.209	0.216	0.223	0.231	0.228	0.225	0.222	0.220	0.216
MSW and C&I to RDF	0.016	0.017	0.018	0.020	0.022	0.023	0.026	0.029	0.033	0.036	0.040	0.041	0.042	0.044	0.045	0.047	0.046	0.046	0.045	0.045	0.044
MSW and C&I treatment - non-hazardous	0.059	0.064	0.069	0.075	0.081	0.087	0.098	0.110	0.124	0.135	0.149	0.154	0.159	0.165	0.170	0.176	0.174	0.172	0.170	0.167	0.165
MSW and C&I treatment - hazardous	0.007	0.007	0.008	0.008	0.009	0.010	0.011	0.012	0.014	0.015	0.017	0.017	0.018	0.018	0.019	0.020	0.019	0.019	0.019	0.019	0.018
Hazardous waste recovery	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Recycling residues (of waste managed):																					
MSW and C&I recycling and composting	0.067	0.072	0.078	0.084	0.090	0.096	0.101	0.106	0.112	0.117	0.122	0.126	0.131	0.135	0.140	0.144	0.148	0.153	0.157	0.161	0.166
C&D recycling	0.081	0.083	0.085	0.086	0.088	0.090	0.090	0.090	0.090	0.090	0.090	0.094	0.097	0.101	0.104	0.108	0.108	0.108	0.108	0.108	0.108
Hazardous waste recycling	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Note: All residues are calculated on the amount of waste arising not on the maount of capacity available. This is complaince with the self-sufficiency requirements of PPS10.

DATA_10: TOTAL MSW AND C&I RESIDUE FROM RECYCLING SENT TO NON-HAZARDOUS LANDFILL (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Total MSW and C&I recycling and composting residue sent to non-hazardous landfill	0.148	0.155	0.163	0.170	0.178	0.186	0.191	0.196	0.202	0.207	0.212	0.220	0.228	0.236	0.244	0.252	0.256	0.261	0.265	0.270	0.274

DATA_11: TOTAL MSW AND C&I RESIDUE FROM RECOVERY SENT TO NON-HAZARDOUS LANDFILL AND C&D RECYCLING (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
SCENARIO 1 - Assumes all recovery is by 'Non-specialist incineration' (based on total recovery capacity)																					
(1) Total MSW and C&I residue sent to non-hazardous landfill assuming all MSW and C&I recovery by 'Non-specialist incineration'	0.020	0.021	0.023	0.025	0.027	0.029	0.033	0.037	0.041	0.045	0.050	0.051	0.053	0.055	0.057	0.059	0.058	0.057	0.057	0.056	0.055
(1) Total MSW and C&I residue sent to inert landfill assuming all MSW and C&I recovery by 'Non-specialist incineration'	0.020	0.021	0.023	0.025	0.027	0.029	0.033	0.037	0.041	0.045	0.050	0.051	0.053	0.055	0.057	0.059	0.058	0.057	0.057	0.056	0.055
SCENARIO 2 - Assumes all recovery is by 'MBT' (based on total recovery capacity)																					
Total MSW and C&I residue sent to non-hazardous landfill	0.077	0.084	0.091	0.098	0.106	0.114	0.129	0.145	0.162	0.177	0.195	0.202	0.209	0.216	0.223	0.231	0.228	0.225	0.222	0.220	0.216
SCENARIO 3 - Assumes all recovery is by 'RDF' (based on total recovery capacity)																					
Total MSW and C&I residue sent to non-hazardous landfill	0.016	0.017	0.018	0.020	0.022	0.023	0.026	0.029	0.033	0.036	0.040	0.041	0.042	0.044	0.045	0.047	0.046	0.046	0.045	0.045	0.044
SCENARIO 4 - Assumes all recovery is by 'treatment' (based on total recovery capacity)																					
Total MSW and C&I residue sent to non-hazardous landfill	0.059	0.064	0.069	0.075	0.081	0.087	0.098	0.110	0.124	0.135	0.149	0.154	0.159	0.165	0.170	0.176	0.174	0.172	0.170	0.167	0.165

(1) It was assumed that 50% of residue from 'non-specialist incineration' is sent to non-hazardous landfill and 50% is sent to inert landfill. In the original model assumptions developed MEL 50% was assumed to go to C&D recycling, rather than to inert landfi

DATA_12: TONNAGES OF C&D REUSED ON NON-HAZARDOUS AND INERT LANDFILL (Million Tonnes)

(1) C&D reused on landfill sites	39	%
(1) C&D reused on exempt sites	61	%
(1) C&D reused on landfill sites sent to 'non-haz landfill'	30	%
(1) C&D reused on landfill sites sent to 'inert landfill'	70	%

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
c&d	Total C&D reused on non-hazardous landfill	0.075	0.074	0.073	0.072	0.070	0.069	0.070	0.072	0.073	0.074	0.075	0.072	0.069	0.065	0.062	0.059	0.060	0.060	0.061	0.062	0.063
	Total reused C&D on inert landfill	0.176	0.173	0.170	0.167	0.164	0.161	0.164	0.167	0.170	0.173	0.176	0.168	0.160	0.153	0.145	0.137	0.139	0.141	0.143	0.145	0.147

(1) C&D reuse rates based on original model assumptions developed MEL

NOTE: C&D reuse on inert and non-hazardous landfill is not included within the charts because it has been assumed that data supplied by each sub-region has accounted for C&D reuse as an engineering material.

DATA_13: TOTAL MSW AND C&I RESIDUE FROM RECYCLING SENT TO HAZARDOUS LANDFILL (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Total MSW and C&I recycling and composting residue sent to hazardous landfill	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

DATA_14: TOTAL MSW AND C&I RESIDUE FROM RECOVERY SENT TO HAZARDOUS LANDFILL (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
SCENARIO 1 - Assumes all recovery is by 'Non-specialist incineration' (based on total recovery capacity)																					
Total MSW and C&I residue sent to hazardous landfill assuming all MSW and C&I recovery by 'Non-specialist incineration'	0.004	0.004	0.005	0.005	0.005	0.006	0.007	0.007	0.008	0.009	0.010	0.010	0.011	0.011	0.011	0.012	0.012	0.011	0.011	0.011	0.011
SCENARIO 2 - Assumes all recovery is by 'MBT' (based on total recovery capacity)																					
Total MSW and C&I residue sent to hazardous landfill	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SCENARIO 3 - Assumes all recovery is by 'RDF' (based on total recovery capacity)																					
Total MSW and C&I residue sent to hazardous landfill	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SCENARIO 4 - Assumes all recovery is by 'treatment' (based on total recovery capacity)																					
Total MSW and C&I residue sent to hazardous landfill	0.007	0.007	0.008	0.008	0.009	0.010	0.011	0.012	0.014	0.015	0.017	0.017	0.018	0.018	0.019	0.020	0.019	0.019	0.019	0.019	0.018

NOTE: This element of the model is redundant. There is currently no hazardous waste capacity figures to generate a chart of managed waste versus available capacity.

DATA_15: TOTAL HAZARDOUS WASTE RESIDUE FROM RECOVERY AND RECYCLING SENT TO HAZARDOUS LANDFILL (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Total hazardous waste recycling and recovery residue sent to hazardous landfill	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Berkshire

CHART_06

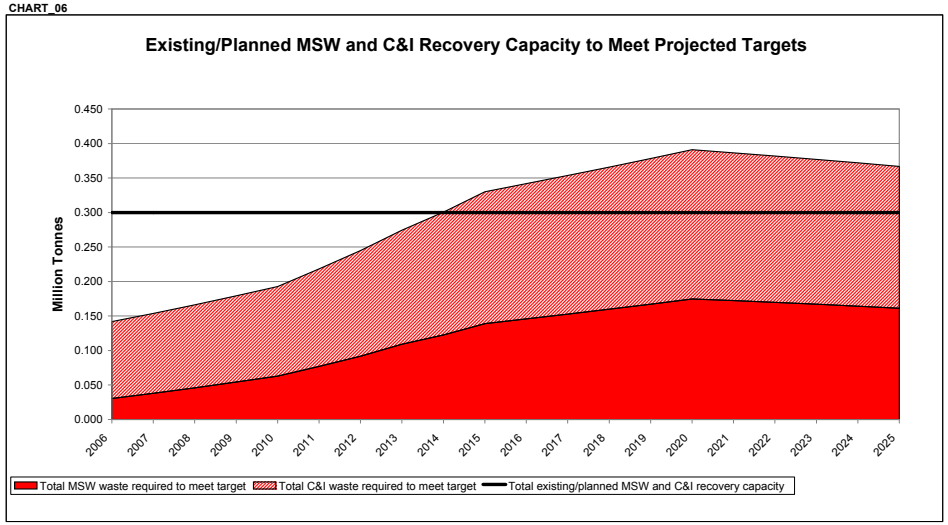


CHART_07

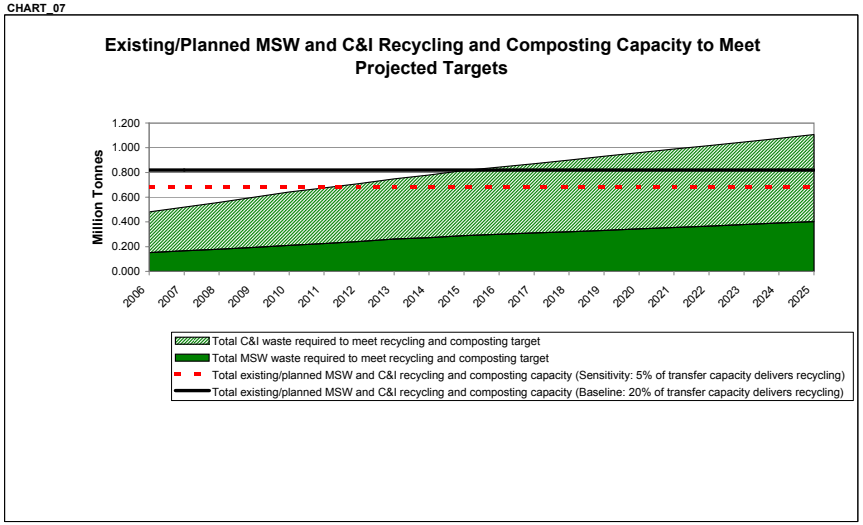
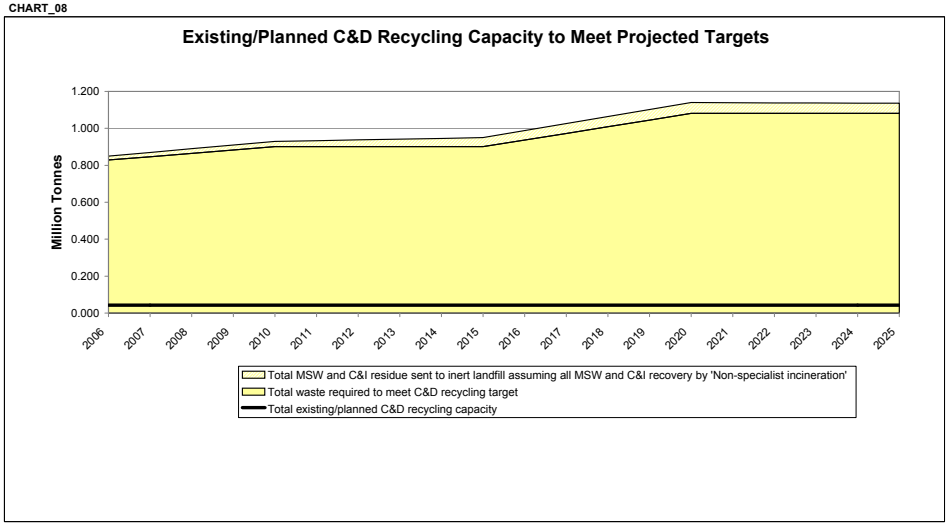


CHART_08



Berkshire

CHART_09

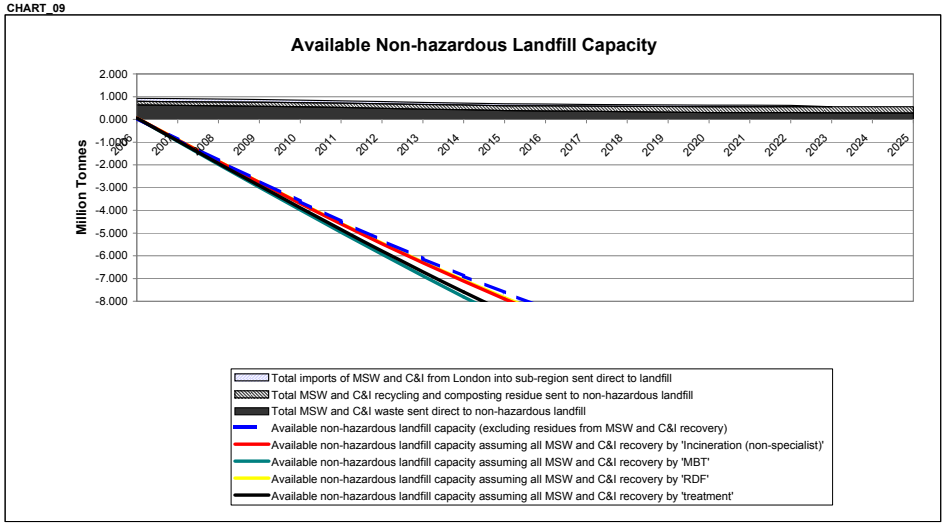
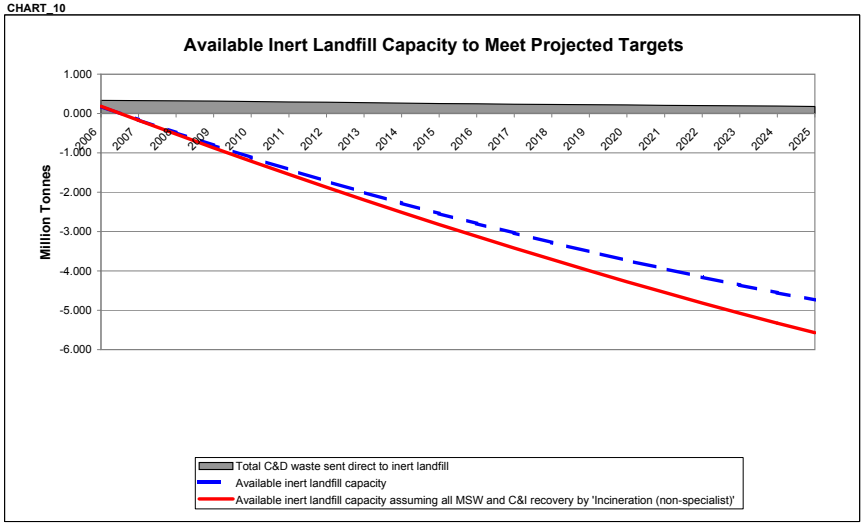


CHART_10



NOTE: The graph assumes that the baseline capacity for non-hazardous landfill has accounted for C&D reuse as a landfill engineering material.

Buckinghamshire

SUMMARY DATA AND RESULTS FOR BUCKINGHAMSHIRE

MANAGED WASTE USED TO GENERATE RESULTS (Million Tonnes)	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	0.304	0.312	0.320	0.328	0.336	0.343	0.350	0.357	0.364	0.371	0.377	0.382	0.388	0.394	0.400	0.406	0.412	0.418	0.424	0.431
msw - imports from london that are sent direct to non-hazardous landfill	0.072	0.070	0.068	0.066	0.064	0.061	0.057	0.053	0.050	0.046	0.044	0.042	0.041	0.039	0.037	0.036	0.035	0.035	0.034	0.033
c&i	0.922	0.945	0.969	0.993	1.018	1.038	1.059	1.080	1.102	1.124	1.141	1.158	1.175	1.193	1.210	1.223	1.235	1.247	1.260	1.272
c&i - imports from london that are sent direct to non-hazardous landfill	0.217	0.211	0.206	0.200	0.194	0.184	0.173	0.162	0.151	0.140	0.134	0.129	0.123	0.117	0.111	0.108	0.106	0.103	0.101	0.098
c&d	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711
hazardous	0.012	0.012	0.012	0.013	0.013	0.013	0.013	0.014	0.014	0.014	0.014	0.015	0.015	0.015	0.015	0.016	0.016	0.016	0.016	0.016

WASTE STREAM TONNAGES TO MEET TARGETS (Million Tonnes)		2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	LATS shortfall (how much extra is landfilled above LATS target)	-0.006	-0.004	-0.002	0.002	0.008	0.011	0.014	0.016	0.010	0.003	0.003	0.002	0.001	0.000	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
	Recycling and composting target	0.097	0.106	0.115	0.126	0.140	0.152	0.164	0.176	0.182	0.188	0.194	0.200	0.206	0.213	0.220	0.227	0.235	0.242	0.250	0.258
	Recovery target	0.019	0.024	0.029	0.035	0.042	0.052	0.063	0.073	0.082	0.090	0.094	0.098	0.103	0.107	0.112	0.110	0.109	0.107	0.105	0.103
	Non-hazardous landfill	0.188	0.182	0.175	0.166	0.154	0.139	0.123	0.108	0.100	0.093	0.088	0.084	0.079	0.074	0.068	0.068	0.068	0.069	0.069	0.069
c&i	Recycling and composting target	0.387	0.416	0.446	0.477	0.509	0.529	0.551	0.572	0.595	0.618	0.639	0.660	0.681	0.704	0.726	0.746	0.766	0.786	0.806	0.827
	Recovery target	0.131	0.136	0.141	0.147	0.153	0.166	0.180	0.194	0.209	0.225	0.230	0.236	0.242	0.248	0.254	0.252	0.249	0.247	0.244	0.242
	Non-hazardous landfill	0.404	0.393	0.382	0.369	0.356	0.343	0.328	0.313	0.297	0.281	0.271	0.262	0.251	0.241	0.230	0.225	0.220	0.215	0.209	0.204
c&d	Recycling target	0.327	0.334	0.341	0.348	0.356	0.356	0.356	0.356	0.356	0.356	0.356	0.370	0.384	0.398	0.412	0.427	0.427	0.427	0.427	0.427
	Recovery target	0.252	0.247	0.243	0.239	0.235	0.239	0.243	0.247	0.252	0.256	0.245	0.233	0.222	0.211	0.199	0.202	0.205	0.208	0.211	0.213
	Inert landfill	0.132	0.129	0.127	0.124	0.121	0.117	0.112	0.108	0.104	0.100	0.097	0.094	0.091	0.088	0.085	0.082	0.080	0.077	0.074	0.071
hazardous	Hazardous waste	0.012	0.012	0.012	0.013	0.013	0.013	0.013	0.014	0.014	0.014	0.014	0.015	0.015	0.015	0.015	0.016	0.016	0.016	0.016	0.016

Note: If there is a LATS shortfall, denoted by a positive number, (ie insufficient allowance to landfill non-diverted waste) then the model assumes that this extra waste is recycled/composted and recovered at the same ratio as the regional targets for recycling/composting and recovery for that year.

EXISTING/PLANNED CAPACITY FOR RECYCLING, RECOVERY AND LANDFILLING AND TOTAL WASTE TONNAGES TO EACH DISPOSAL ROUTE (Million Tonnes)		2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
MSW and C&I recovery																					
	Total existing/planned MSW and C&I recovery capacity	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093
	Surplus/deficit capacity	-0.057	-0.067	-0.078	-0.089	-0.102	-0.125	-0.149	-0.175	-0.198	-0.222	-0.231	-0.241	-0.252	-0.262	-0.273	-0.269	-0.265	-0.261	-0.256	-0.252
MSW and C&I recycling and composting																					
	Total existing/planned MSW and C&I recycling and composting capacity (Baseline: 20% of transfer capacity delivers recycling)	0.297	0.297	0.297	0.297	0.297	0.297	0.297	0.297	0.297	0.297	0.297	0.297	0.297	0.297	0.297	0.297	0.297	0.297	0.297	0.297
	Total existing/planned MSW and C&I recycling and composting capacity (Sensitivity: 5% of transfer capacity delivers recycling)	0.239	0.239	0.239	0.239	0.239	0.239	0.239	0.239	0.239	0.239	0.239	0.239	0.239	0.239	0.239	0.239	0.239	0.239	0.239	0.239
	Surplus/deficit capacity (Baseline: 20% of transfer capacity delivers recycling)	-0.187	-0.224	-0.263	-0.305	-0.352	-0.384	-0.417	-0.451	-0.479	-0.508	-0.535	-0.562	-0.590	-0.619	-0.649	-0.676	-0.703	-0.731	-0.759	-0.788
	Surplus/deficit capacity (Sensitivity: 5% of transfer capacity delivers recycling)	-0.245	-0.282	-0.321	-0.363	-0.410	-0.442	-0.475	-0.509	-0.537	-0.566	-0.593	-0.620	-0.648	-0.677	-0.707	-0.734	-0.761	-0.789	-0.817	-0.846
C&D recycling																					
	Total existing/planned C&D recycling capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Surplus/deficit capacity	-0.327	-0.334	-0.341	-0.348	-0.356	-0.356	-0.356	-0.356	-0.356	-0.356	-0.370	-0.384	-0.398	-0.412	-0.427	-0.427	-0.427	-0.427	-0.427	-0.427
C&D recovery																					
	REGIONAL total existing/planned C&D recovery capacity	1.794	1.710	1.627	1.544	1.460	1.439	1.418	1.398	1.377	1.356	1.325	1.293	1.262	1.231	1.199	1.220	1.241	1.262	1.283	1.304
	Surplus/deficit capacity	1.542	1.463	1.384	1.305	1.225	1.200	1.175	1.150	1.125	1.100	1.080	1.060	1.040	1.020	1.000	1.018	1.036	1.054	1.072	1.090
Hazardous waste recycling																					
	Total existing/planned hazardous waste recycling capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Surplus/deficit capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hazardous waste recovery																					
	Total existing/planned hazardous waste recovery capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Surplus/deficit capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Non-hazardous landfill																					
	Available non-hazardous landfill capacity (excluding residues from MSW and C&I recovery)	10.500	9.515	8.547	7.599	6.672	5.770	4.907	4.083	3.299	2.548	1.831	1.131	0.447	-0.220	-0.869	-1.499	-2.125	-2.747	-3.365	-3.979
	Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'Incineration (non-specialist)'	10.500	9.492	8.501	7.527	6.572	5.641	4.745	3.885	3.061	2.266	1.502	0.753	0.019	-0.699	-1.402	-2.087	-2.768	-3.443	-4.114	-4.780
	Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'MBT'	10.500	9.426	8.364	7.315	6.280	5.264	4.272	3.305	2.363	1.440	0.537	-0.355	-1.236	-2.106	-2.965	-3.811	-4.651	-5.484	-6.311	-7.131
	Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'RDF'	10.500	9.497	8.510	7.541	6.592	5.667	4.778	3.925	3.108	2.323	1.568	0.829	0.105	-0.603	-1.295	-1.969	-2.639	-3.304	-3.964	-4.620
	Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'treatment'	10.500	9.447	8.408	7.382	6.373	5.384	4.422	3.489	2.585	1.703	0.844	-0.002	-0.837	-1.658	-2.467	-3.263	-4.052	-4.835	-5.612	-6.383
Inert landfill																					
	Available inert landfill capacity	26.051	25.919	25.789	25.663	25.539	25.418	25.301	25.189	25.081	24.977	24.878	24.781	24.687	24.596	24.508	24.422	24.340	24.260	24.183	24.109
	Available inert landfill capacity assuming all MSW and C&I recovery by 'Incineration (non-specialist)'	26.051	25.896	25.743	25.590	25.439	25.289	25.140	24.991	24.843	24.695	24.549	24.403	24.259	24.116	23.975	23.835	23.698	23.564	23.435	23.308
Hazardous landfill																					
	Available hazardous landfill capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Note: The model does not contain data for the management of hazardous waste.																				

DATA_01: ARISINGS AND GROWTH RATES OF MSW, C&I AND HAZARDOUS WASTE (Million Tonnes)		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	Arisings of MSW in baseline year																					
	(1) Forecast regional level growth rate of MSW - per year (%)	3.0%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%
	(1) Forecast regional level growth rate of MSW - cumulative (%)	109%	112%	115%	118%	121%	124%	126%	129%	131%	134%	136%	139%	141%	143%	145%	147%	149%	151%	154%	156%	158%
	Total arisings of MSW using regional growth forecasts	0.297	0.304	0.312	0.320	0.328	0.336	0.343	0.350	0.357	0.364	0.371	0.377	0.382	0.388	0.394	0.400	0.406	0.412	0.418	0.424	0.431
	(1) Forecast sub-regional growth rate of MSW - per year (%)	3.0%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%
	(1) Forecast sub-regional level growth rate of MSW - cumulative (%)	109%	112%	115%	118%	121%	124%	126%	129%	131%	134%	136%	139%	141%	143%	145%	147%	149%	151%	154%	156%	158%
	Total arisings of MSW using sub-regional growth forecasts	0.297	0.304	0.312	0.320	0.328	0.336	0.343	0.350	0.357	0.364	0.371	0.377	0.382	0.388	0.394	0.400	0.406	0.412	0.418	0.424	0.431
c&i	Arisings of C&I in baseline year																					
	(1) Forecast regional level growth rate of C&I - per year (%)	3.3%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.0%	1.0%	1.0%	1.0%	1.0%
	(1) Forecast regional level growth rate of C&I - cumulative (%)	117%	120%	123%	126%	130%	133%	136%	138%	141%	144%	147%	149%	151%	153%	156%	158%	160%	161%	163%	164%	166%
	Total arisings of C&I using regional growth forecasts	0.900	0.922	0.945	0.969	0.993	1.018	1.038	1.059	1.080	1.102	1.124	1.141	1.158	1.175	1.193	1.210	1.223	1.235	1.247	1.260	1.272
	(1) Forecast sub-regional level growth rate of C&I - per year (%)	3.3%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.0%	1.0%	1.0%	1.0%	1.0%
	(1) Forecast sub-regional level growth rate of C&I - cumulative (%)	117%	120%	123%	126%	130%	133%	136%	138%	141%	144%	147%	149%	151%	153%	156%	158%	160%	161%	163%	164%	166%
	Total arisings of C&I using sub-regional growth forecasts	0.900	0.922	0.945	0.969	0.993	1.018	1.038	1.059	1.080	1.102	1.124	1.141	1.158	1.175	1.193	1.210	1.223	1.235	1.247	1.260	1.272
hazardous	Arisings of hazardous waste in baseline year																					
	(2) Forecast regional level growth rate of hazardous waste - per year (%)	3.3%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.0%	1.0%	1.0%	1.0%	1.0%
	Forecast regional level growth rate of hazardous waste - cumulative (%)	107%	109%	112%	115%	118%	121%	123%	126%	128%	131%	133%	135%	137%	139%	141%	144%	145%	146%	148%	149%	151%
	Total arisings of hazardous waste	0.011	0.012	0.012	0.012	0.013	0.013	0.013	0.013	0.014	0.014	0.014	0.014	0.015	0.015	0.015	0.015	0.016	0.016	0.016	0.016	0.016
	(2) Forecast sub-regional level growth rate of hazardous waste - per year (%)	3.3%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.0%	1.0%	1.0%	1.0%	1.0%
	Forecast sub regional level growth rate of hazardous waste - cumulative (%)	107%	109%	112%	115%	118%	121%	123%	126%	128%	131%	133%	135%	137%	139%	141%	144%	145%	146%	148%	149%	151%
	Total arisings of hazardous waste	0.011	0.012	0.012	0.012	0.013	0.013	0.013	0.013	0.014	0.014	0.014	0.014	0.015	0.015	0.015	0.015	0.016	0.016	0.016	0.016	0.016
c&d	Total managed C&D in baseline year																					
	(3) Forecast regional-level growth rate of managed C&D - per year (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Forecast regional-level growth rate of managed C&D - cumulative (%)	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
	(3) Total managed of C&D for the sub-region	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711

(1) Figures from SEERA updated waste capacity model by ERM in 2005.
(2) Baseline year of hazardous waste arisings is 2003 from EA Hazardous Waste Interrogator. www.environment-agency.gov.uk/apps/wastesurvey2/. ERM has assumed that growth in hazardous waste is equal to C&I waste.
(3) These data represent managed C&D waste in the sub-region, including all intra-regional and inter-regional movements. Growth is assumed to be zero from the orginal MEL study and updated modeted by ERM in 2005.
NOTE: C&D waste is not included in arisings because this was taken from survey data by Symonds 2001 which gave values for managed C&D waste.

Buckinghamshire

Figure in blue represent data supplied by each sub-region for the new '2006 SEERA Capacity and Need Model'
Figures in orange represent managed waste that are used by the model to calculate results. These can be adjusted for different scenarios.

DATA_02: INTER REGIONAL MOVEMENTS OF MSW and C&I (Million Tonnes)		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw and c&i	Regional level imports of MSW and C&I waste into the SE region from London	1.76	1.716	1.672	1.628	1.584	1.54	1.454	1.368	1.282	1.196	1.11	1.064	1.018	0.972	0.926	0.88	0.86	0.84	0.82	0.8	0.78
	Proportion of regional MSW and C&I imports that go to the sub-region (%)	16.8%	16.8%	16.8%	16.8%	16.8%	16.8%	16.8%	16.8%	16.8%	16.8%	16.8%	16.8%	16.8%	16.8%	16.8%	16.8%	16.8%	16.8%	16.8%	16.8%	16.8%
	(1) Total imports of MSW and C&I from London into sub-region sent direct to landfill	0.296	0.288	0.281	0.274	0.266	0.259	0.244	0.230	0.215	0.201	0.186	0.179	0.171	0.163	0.156	0.148	0.144	0.141	0.138	0.134	0.131
msw	Proportion of total MSW and C&I imports that are MSW (%) - REGIONAL GROWTH FORECAST	25%	25%	25%	25%	25%	25%	25%	25%	25%	25%	25%	25%	25%	25%	25%	25%	25%	25%	25%	25%	25%
	Total imports of MSW into the sub-region from London - REGIONAL GROWTH FORECAST	0.073	0.072	0.070	0.068	0.066	0.064	0.061	0.057	0.053	0.050	0.046	0.044	0.042	0.041	0.039	0.037	0.036	0.035	0.035	0.034	0.033
	Proportion of total MSW and C&I imports that are MSW (%) - SUB-REGIONAL GROWTH FORECAST	25%	25%	25%	25%	25%	25%	25%	25%	25%	25%	25%	25%	25%	25%	25%	25%	25%	25%	25%	25%	25%
	Total imports of MSW into the sub-region from London - SUB-REGIONAL GROWTH FORECAST	0.073	0.072	0.070	0.068	0.066	0.064	0.061	0.057	0.053	0.050	0.046	0.044	0.042	0.041	0.039	0.037	0.036	0.035	0.035	0.034	0.033
c&i	Proportion of total MSW and C&I imports that are C&I (%) - REGIONAL GROWTH FORECAST	75%	75%	75%	75%	75%	75%	75%	75%	75%	75%	75%	75%	75%	75%	75%	75%	75%	75%	75%	75%	75%
	Total imports of C&I into the sub-region from London - REGIONAL GROWTH FORECAST	0.222	0.217	0.211	0.206	0.200	0.194	0.184	0.173	0.162	0.151	0.140	0.134	0.129	0.123	0.117	0.111	0.108	0.106	0.103	0.101	0.098
	Proportion of total MSW and C&I imports that are C&I (%) - SUB-REGIONAL GROWTH FORECAST	75%	75%	75%	75%	75%	75%	75%	75%	75%	75%	75%	75%	75%	75%	75%	75%	75%	75%	75%	75%	75%
	Total imports of C&I into the sub-region from London - SUB-REGIONAL GROWTH FORECAST	0.222	0.217	0.211	0.206	0.200	0.194	0.184	0.173	0.162	0.151	0.140	0.134	0.129	0.123	0.117	0.111	0.108	0.106	0.103	0.101	0.098

(1) Intra-regional and inter-regional movements have been excluded for MSW and C&I waste due to self-sufficiency requirements under PPS10, except for inter-regional movements from London into the sub-region. Apportionment from Policy W3 in the Plan – downloadable from http://www.southeast-ra.gov.uk/southeastplan/plan/march_2006/core_document/009_seera_s
Note: Only a figure is available for total combined imports of MSW and C&I waste. ERM has assumed that imports of the seperate waste streams of MSW and C&I was split according to tonnage arisings of MSW and C&I in the sub-region.

DATA_03: MANAGED WASTE USED TO GENERATE RESULTS (Million Tonnes)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	0.297	0.304	0.312	0.320	0.328	0.336	0.343	0.350	0.357	0.364	0.371	0.377	0.382	0.388	0.394	0.400	0.406	0.412	0.418	0.424	0.431
msw - imports from london that are sent direct to non-hazardous landfill	0.073	0.072	0.070	0.068	0.066	0.064	0.061	0.057	0.053	0.050	0.046	0.044	0.042	0.041	0.039	0.037	0.036	0.035	0.035	0.034	0.033
c&i	0.900	0.922	0.945	0.969	0.993	1.018	1.038	1.059	1.080	1.102	1.124	1.141	1.158	1.175	1.193	1.210	1.223	1.235	1.247	1.260	1.272
c&I - imports from london that are sent direct to non-hazardous landfill	0.222	0.217	0.211	0.206	0.200	0.194	0.184	0.173	0.162	0.151	0.140	0.134	0.129	0.123	0.117	0.111	0.108	0.106	0.103	0.101	0.098
c&d	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711	0.711
hazardous	0.011	0.012	0.012	0.012	0.013	0.013	0.013	0.013	0.014	0.014	0.014	0.014	0.015	0.015	0.015	0.015	0.016	0.016	0.016	0.016	0.016

DATA_04: TARGETS (% or Million Tonnes)		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	(1) landfill (Mt)	0.137	0.133	0.128	0.121	0.112	0.102	0.091	0.079	0.068	0.065	0.062	0.059	0.056	0.053	0.050	0.048	0.048	0.048	0.048	0.048	0.048
	recovered (%)	5	6.4	7.8	9.2	10.6	12	14.4	16.8	19.2	21.6	24	24.8	25.6	26.4	27.2	28	27.2	26.4	25.6	24.8	24
	recycled and composted (%)	30	32.0	34.0	36.0	38.0	40	42.0	44.0	46.0	48.0	50	51.0	52.0	53.0	54.0	55	56.0	57.0	58.0	59.0	60
c&i	recovered (%)	14	14.2	14.4	14.6	14.8	15	16.0	17.0	18.0	19.0	20	20.2	20.4	20.6	20.8	21	20.6	20.2	19.8	19.4	19
	recycled and composted (%)	40	42.0	44.0	46.0	48.0	50	51.0	52.0	53.0	54.0	55	56.0	57.0	58.0	59.0	60	61.0	62.0	63.0	64.0	65
c&d	recovered (%)	36	35.4	34.8	34.2	33.6	33	33.6	34.2	34.8	35.4	36	34.4	32.8	31.2	29.6	28	28.4	28.8	29.2	29.6	30
	recycled (%)	45	46.0	47.0	48.0	49.0	50	50.0	50.0	50.0	50.0	50	52.0	54.0	56.0	58.0	60	60.0	60.0	60.0	60.0	60
hazardous	landfill (%)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	recovered (%)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	recycled (%)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

(1) ERM has assumed that the LATS target allowance remains constant at the 2020 value for the years beyond 2020

DATA_05: WASTE STREAM TONNAGES TO MEET TARGETS (Million Tonnes)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025

This first section of DATA_03 calculates if there is a LATS shortfall or suplus in each year. If there is a LATS shortfall (ie insufficient allowance to landfill non-diverted waste) then the model assumes that this extra waste is recycled/composted and r

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	Total MSW to be recovered and recycled/composted to meet target	0.104	0.117	0.130	0.145	0.159	0.175	0.193	0.213	0.233	0.253	0.275	0.285	0.297	0.308	0.320	0.332	0.338	0.343	0.349	0.356	0.362
	Total MSW not-diverted by targets	0.193	0.188	0.182	0.175	0.169	0.161	0.149	0.137	0.124	0.111	0.096	0.091	0.086	0.080	0.074	0.068	0.068	0.068	0.069	0.069	0.069
	Percentage of MSW that is biodegradable (% by weight)	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68
	Total BMW not-diverted by targets	0.131	0.128	0.124	0.119	0.115	0.110	0.102	0.093	0.084	0.075	0.066	0.062	0.058	0.054	0.050	0.046	0.046	0.046	0.047	0.047	0.047
	LATS shortfall (how much extra is landfilled above LATS target)	-0.005	-0.006	-0.004	-0.002	0.002	0.008	0.011	0.014	0.016	0.010	0.003	0.003	0.002	0.001	0.000	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
	Ratio of 'recovered' to 'recycled/composted' for target (%)	14%	17%	19%	20%	22%	23%	26%	28%	29%	31%	32%	33%	33%	33%	33%	34%	33%	32%	31%	30%	29%
	Extra MSW 'recovery' needed due to LATS shortfall	0.000	0.000	0.000	0.000	*0.000*	*0.002*	*0.003*	*0.004*	*0.005*	*0.003*	*0.001*	*0.001*	*0.001*	*0.000*	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Extra MSW 'recycling/composting' needed due to LATS shortfall	0.000	0.000	0.000	0.000	*0.002*	*0.006*	*0.008*	*0.010*	*0.012*	*0.007*	*0.002*	*0.002*	*0.001*	*0.001*	0.000	0.000	0.000	0.000	0.000	0.000	0.000

The section below in DATA_03 shows the tonnages by waste to meet targets.

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	Recycling and composting target	0.089	0.097	0.106	0.115	0.126	0.140	0.152	0.164	0.176	0.182	0.188	0.194	0.200	0.206	0.213	0.220	0.227	0.235	0.242	0.250	0.258
	Recovery target	0.015	0.019	0.024	0.029	0.035	0.042	0.052	0.063	0.073	0.082	0.090	0.094	0.098	0.103	0.107	0.112	0.110	0.109	0.107	0.105	0.103
	Non-hazardous landfill	0.193	0.188	0.182	0.175	0.166	0.154	0.139	0.123	0.108	0.100	0.093	0.088	0.084	0.079	0.074	0.068	0.068	0.068	0.069	0.069	0.069
	CHECK COUNTER (should be zero)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
c&i	Recycling and composting target	0.360	0.387	0.416	0.446	0.477	0.509	0.529	0.551	0.572	0.595	0.618	0.639	0.660	0.681	0.704	0.726	0.746	0.766	0.786	0.806	0.827
	Recovery target	0.126	0.131	0.136	0.141	0.147	0.153	0.166	0.180	0.194	0.209	0.225	0.230	0.236	0.242	0.248	0.254	0.252	0.249	0.247	0.244	0.242
	Non-hazardous landfill	0.414	0.404	0.393	0.382	0.369	0.356	0.343	0.328	0.313	0.297	0.281	0.271	0.262	0.251	0.241	0.230	0.225	0.220	0.215	0.209	0.204
	CHECK COUNTER (should be zero)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

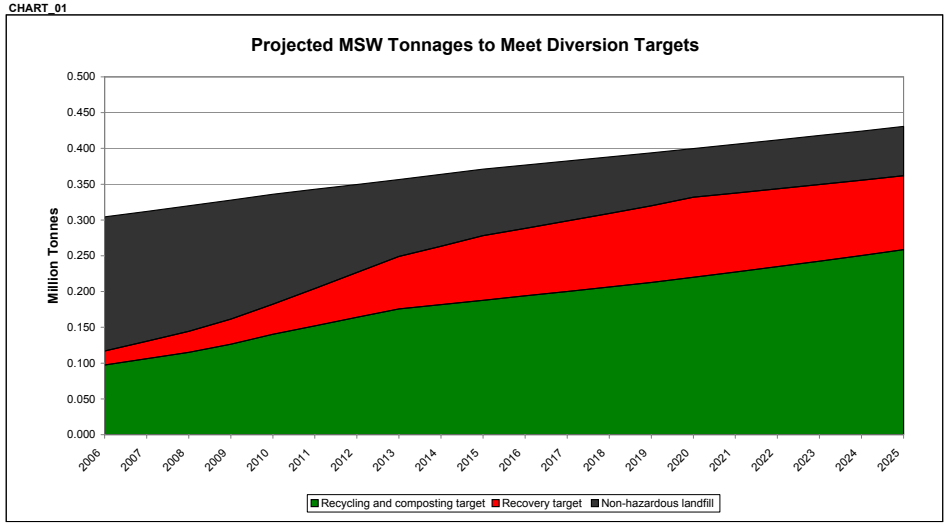
		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
c&d	Recycling target	0.320	0.327	0.334	0.341	0.348	0.356	0.356	0.356	0.356	0.356	0.356	0.370	0.384	0.398	0.412	0.427	0.427	0.427	0.427	0.427	0.427
	Recovery target	0.256	0.252	0.247	0.243	0.239	0.235	0.239	0.243	0.247	0.252	0.256	0.245	0.233	0.222	0.211	0.199	0.202	0.205	0.208	0.211	0.213
	Inert landfill	0.135	0.132	0.129	0.127	0.124	0.121	0.117	0.112	0.108	0.104	0.100	0.097	0.094	0.091	0.088	0.085	0.082	0.080	0.077	0.074	0.071
	CHECK COUNTER (should be zero)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
hazardous	Hazardous waste	0.011	0.012	0.012	0.012	0.013	0.013	0.013	0.013	0.014	0.014	0.014	0.014	0.015	0.015	0.015	0.015	0.016	0.016	0.016	0.016	0.016

DATA_06: TOTAL WASTE TONNAGES TO MEET TARGETS (Million Tonnes)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
MSW and C&I recycling and composting target	0.449	0.485	0.522	0.561	0.603	0.649	0.682	0.714	0.748	0.776	0.806	0.833	0.860	0.888	0.916	0.946	0.973	1.000	1.028	1.056	1.085
C&D recycling target	0.320	0.327	0.334	0.341	0.348	0.356	0.356	0.356	0.356	0.356	0.356	0.370	0.384	0.398	0.412	0.427	0.427	0.427	0.427	0.427	0.427
MSW and C&I recovery target	0.141	0.150	0.160	0.171	0.182	0.195	0.218	0.243	0.268	0.291	0.315	0.325	0.335	0.345	0.355	0.366	0.362	0.358	0.354	0.350	0.345
C&D recovery target	0.256	0.252	0.247	0.243	0.239	0.235	0.239	0.243	0.247	0.252	0.256	0.245	0.233	0.222	0.211	0.199	0.202	0.205	0.208	0.211	0.213
Non-hazardous landfill	0.607	0.591	0.575	0.557	0.536	0.510	0.481	0.451	0.421	0.398	0.374	0.360	0.345	0.330	0.315	0.298	0.293	0.288	0.283	0.278	0.272
Inert landfill	0.135	0.132	0.129	0.127	0.124	0.121	0.117	0.112	0.108	0.104	0.100	0.097	0.094	0.091	0.088	0.085	0.082	0.080	0.077	0.074	0.071
Hazardous waste	0.011	0.012	0.012	0.012	0.013	0.013	0.013	0.013	0.014	0.014	0.014	0.014	0.015	0.015	0.015	0.015	0.016	0.016	0.016	0.016	0.016

Buckinghamshire

CHART_01



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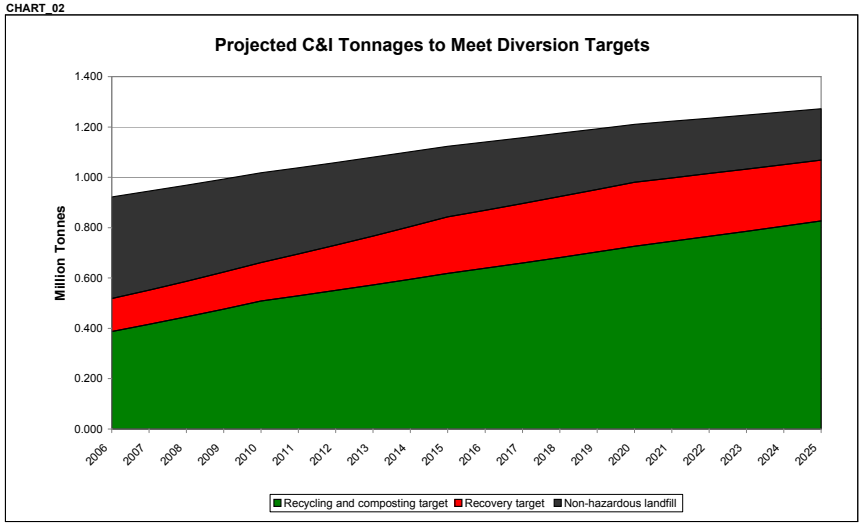

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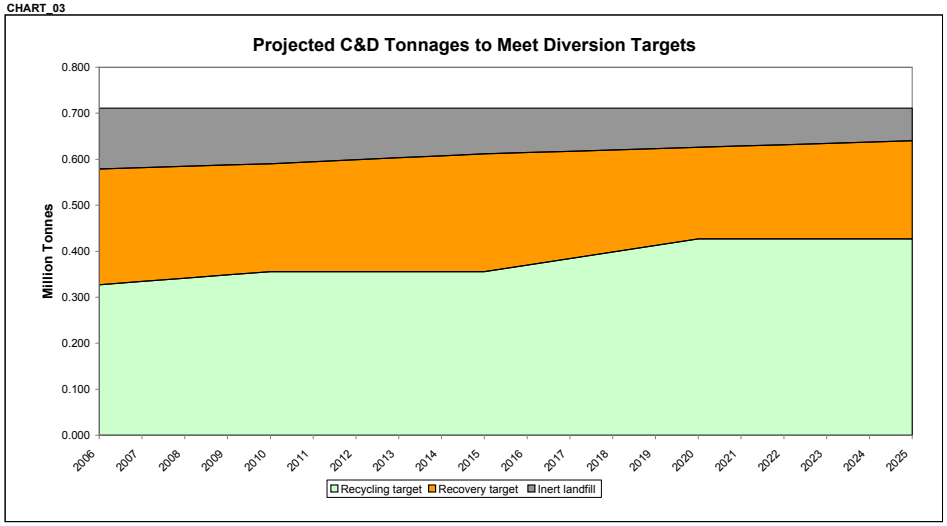

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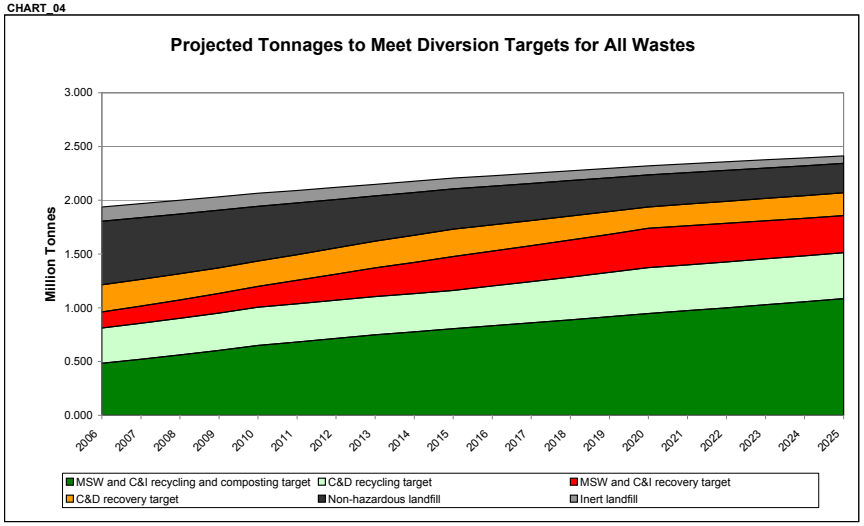
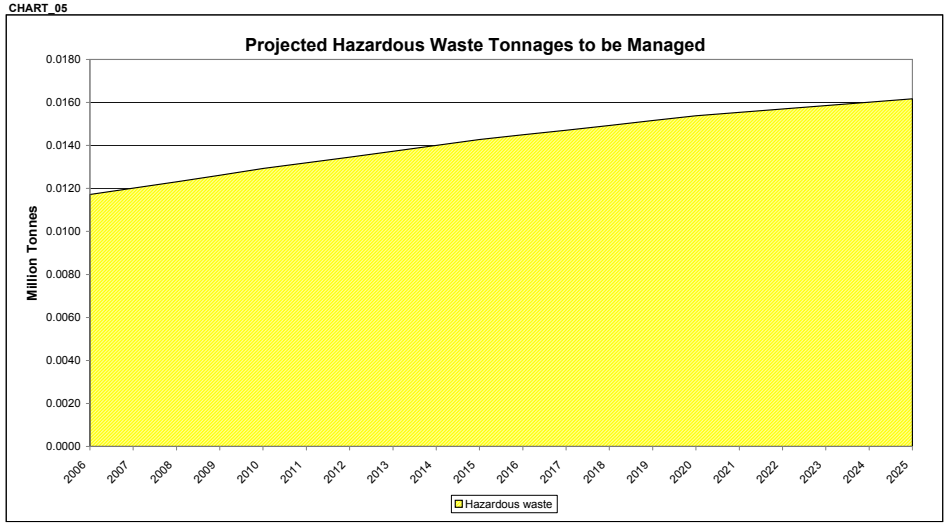


Buckinghamshire

CHART_05



DATA_07: EXISTING/PLANNED CAPACITY FOR RECYCLING, RECOVERY AND LANDFILLING AND TOTAL WASTE TONNAGES TO EACH DISPOSAL ROUTE (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
MSW and C&I recovery																					
MSW and C&I incineration (non-specialist)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
MSW and C&I treatment	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093
Total existing/planned MSW and C&I recovery capacity	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093
Total MSW waste required to meet target	0.015	0.019	0.024	0.029	0.035	0.042	0.052	0.063	0.073	0.082	0.090	0.094	0.098	0.103	0.107	0.112	0.110	0.109	0.107	0.105	0.103
Total C&I waste required to meet target	0.126	0.131	0.136	0.141	0.147	0.153	0.166	0.180	0.194	0.209	0.225	0.230	0.236	0.242	0.248	0.254	0.252	0.249	0.247	0.244	0.242
Surplus/deficit capacity	-0.048	-0.057	-0.067	-0.078	-0.089	-0.102	-0.125	-0.149	-0.175	-0.198	-0.222	-0.231	-0.241	-0.252	-0.262	-0.273	-0.269	-0.265	-0.261	-0.256	-0.252
MSW and C&I recycling and composting																					
MSW and C&I recycling	0.167	0.167	0.167	0.167	0.167	0.167	0.167	0.167	0.167	0.167	0.167	0.167	0.167	0.167	0.167	0.167	0.167	0.167	0.167	0.167	0.167
MSW and C&I transfer	0.387	0.387	0.387	0.387	0.387	0.387	0.387	0.387	0.387	0.387	0.387	0.387	0.387	0.387	0.387	0.387	0.387	0.387	0.387	0.387	0.387
Total existing/planned MSW and C&I composting capacity	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053	0.053
(1) Total existing/planned MSW and C&I recycling and composting capacity (Baseline: 20% of transfer capacity delivers recycling)	0.297	0.297	0.297	0.297	0.297	0.297	0.297	0.297	0.297	0.297	0.297	0.297	0.297	0.297	0.297	0.297	0.297	0.297	0.297	0.297	0.297
(2) Total existing/planned MSW and C&I recycling and composting capacity (Sensitivity: 5% of transfer capacity delivers recycling)	0.239	0.239	0.239	0.239	0.239	0.239	0.239	0.239	0.239	0.239	0.239	0.239	0.239	0.239	0.239	0.239	0.239	0.239	0.239	0.239	0.239
Total MSW waste required to meet recycling and composting target	0.089	0.097	0.106	0.115	0.126	0.140	0.152	0.164	0.176	0.182	0.188	0.194	0.200	0.206	0.213	0.220	0.227	0.235	0.242	0.250	0.258
Total C&I waste required to meet recycling and composting target	0.360	0.387	0.416	0.446	0.477	0.509	0.529	0.551	0.572	0.595	0.618	0.639	0.660	0.681	0.704	0.726	0.746	0.766	0.786	0.806	0.827
Surplus/deficit capacity (Baseline: 20% of transfer capacity delivers recycling)	-0.151	-0.187	-0.224	-0.263	-0.305	-0.352	-0.384	-0.417	-0.451	-0.479	-0.508	-0.535	-0.562	-0.590	-0.619	-0.649	-0.676	-0.703	-0.731	-0.759	-0.788
Surplus/deficit capacity (Sensitivity: 5% of transfer capacity delivers recycling)	-0.209	-0.245	-0.282	-0.321	-0.363	-0.410	-0.442	-0.475	-0.509	-0.537	-0.566	-0.593	-0.620	-0.648	-0.677	-0.707	-0.734	-0.761	-0.789	-0.817	-0.846
C&D recycling																					
(3) Total existing/planned C&D recycling capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total waste required to meet C&D recycling target	0.320	0.327	0.334	0.341	0.348	0.356	0.356	0.356	0.356	0.356	0.356	0.370	0.384	0.398	0.412	0.427	0.427	0.427	0.427	0.427	0.427
Surplus/deficit capacity	-0.320	-0.327	-0.334	-0.341	-0.348	-0.356	-0.356	-0.356	-0.356	-0.356	-0.356	-0.370	-0.384	-0.398	-0.412	-0.427	-0.427	-0.427	-0.427	-0.427	-0.427
C&D recovery																					
REGIONAL total existing/planned C&D recovery capacity	1.877	1.794	1.710	1.627	1.544	1.460	1.439	1.418	1.398	1.377	1.356	1.325	1.293	1.262	1.231	1.199	1.220	1.241	1.262	1.283	1.304
Sub-regional total waste required to meet C&D recovery target	0.256	0.252	0.247	0.243	0.239	0.235	0.239	0.243	0.247	0.252	0.256	0.245	0.233	0.222	0.211	0.199	0.202	0.205	0.208	0.211	0.213
Surplus/deficit capacity	1.621	1.542	1.463	1.384	1.305	1.225	1.200	1.175	1.150	1.125	1.100	1.080	1.060	1.040	1.020	1.000	1.018	1.036	1.054	1.072	1.090
Hazardous waste recycling																					
Total existing/planned hazardous waste recycling capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total hazardous waste to be recycled	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Surplus/deficit capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hazardous waste recovery																					
Total existing/planned hazardous waste recovery capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total hazardous waste to be recovered	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Surplus/deficit capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Non-hazardous landfill																					
Available non-hazardous landfill capacity (excluding residues from MSW and C&I recovery)		10.500	9.515	8.547	7.599	6.672	5.770	4.907	4.083	3.299	2.548	1.831	1.131	0.447	-0.220	-0.869	-1.499	-2.125	-2.747	-3.365	-3.979
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'Incineration (non-specialist)'		10.500	9.492	8.501	7.527	6.572	5.641	4.745	3.885	3.061	2.266	1.502	0.753	0.019	-0.699	-1.402	-2.087	-2.768	-3.443	-4.114	-4.780
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'MBT'		10.500	9.426	8.364	7.315	6.280	5.264	4.272	3.305	2.363	1.440	0.537	-0.355	-1.236	-2.106	-2.965	-3.811	-4.651	-5.484	-6.311	-7.131
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'RDF'		10.500	9.497	8.510	7.541	6.592	5.667	4.778	3.925	3.108	2.323	1.568	0.829	0.105	-0.603	-1.295	-1.969	-2.639	-3.304	-3.964	-4.620
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'treatment'		10.500	9.447	8.408	7.382	6.373	5.384	4.422	3.489	2.585	1.703	0.844	-0.002	-0.837	-1.658	-2.467	-3.263	-4.052	-4.835	-5.612	-6.383
Total MSW and C&I waste sent direct to non-hazardous landfill		0.591	0.575	0.557	0.536	0.510	0.481	0.451	0.421	0.398	0.374	0.360	0.345	0.330	0.315	0.298	0.293	0.288	0.283	0.278	0.272
Inert landfill																					
Available inert landfill capacity		26.051	25.919	25.789	25.663	25.539	25.418	25.301	25.189	25.081	24.977	24.878	24.781	24.687	24.596	24.508	24.422	24.340	24.260	24.183	24.109
Available inert landfill capacity assuming all MSW and C&I recovery by 'Incineration (non-specialist)'		26.051	25.896	25.743	25.590	25.439	25.289	25.140	24.991	24.843	24.695	24.549	24.403	24.259	24.116	23.975	23.835	23.698	23.564	23.435	23.308
Total C&D waste sent direct to inert landfill	0.135	0.132	0.129	0.127	0.124	0.121	0.117	0.112	0.108	0.104	0.100	0.097	0.094	0.091	0.088	0.085	0.082	0.080	0.077	0.074	0.071
Hazardous landfill																					
Available hazardous landfill capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total hazardous waste sent direct to hazardous landfill	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Other																					
Metal/ELV facility	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042	0.042
Ignored	0.102	0.102	0.102	0.102	0.102	0.102	0.102	0.102	0.102	0.102	0.102	0.102	0.102	0.102	0.102	0.102	0.102	0.102	0.102	0.102	0.102
Closed	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

(1) ERM has assumed that 20% of the total 'transfer' capacity will deliver recycling capacity
(2) ERM has assumed that 5% of the total 'transfer' capacity will deliver recycling capacity
(3) Data for C&D recovery for landfill cover for the SE Region were sourced from the original MEL model, which sourced the data from Symonds (2001)
Note: The capacity model developed by ERM for this study does not include the capacity provided in the 'Others' group in its calculations because these are not relevant to the management of MSW, C&I and C&D. These data are included for the purposes of completeness.

Buckinghamshire

DATA_08: RESIDUE RATES (%)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Recovery residues (% by weight)																					
MSW and C&I incineration (non-specialist) - bottom ash	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
MSW and C&I incineration (non-specialist) - fly ash	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
MSW and C&I to MBT	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59
MSW and C&I to RDF	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
MSW and C&I treatment - non-hazardous	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45
MSW and C&I treatment - hazardous	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Hazardous waste recovery	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Recycling residues (% by weight)																					
MSW and C&I recycling	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
(2) MSW and C&I transfer	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
MSW and C&I composting	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
C&D recycling	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Hazardous waste recycling	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Other																					
Metal/ELV facility	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Ignored	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Closed	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Note: The capacity model developed by ERM for this study does not include the capacity provided in the 'Others' group in its calculations because these are not relevant to the management of MSW, C&I and C&D. These data are included for the purposes of completeness.

DATA_09: TOTAL RESIDUE (Million Tonnes)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Recovery residues (of waste managed):																					
MSW and C&I incineration (non-specialist) - bottom ash	0.042	0.045	0.048	0.051	0.055	0.058	0.065	0.073	0.080	0.087	0.094	0.097	0.100	0.103	0.107	0.110	0.109	0.107	0.106	0.105	0.104
MSW and C&I incineration (non-specialist) - fly ash	0.004	0.005	0.005	0.005	0.005	0.006	0.007	0.007	0.008	0.009	0.009	0.010	0.010	0.010	0.011	0.011	0.011	0.011	0.011	0.010	0.010
MSW and C&I to MBT	0.083	0.089	0.095	0.101	0.107	0.115	0.129	0.143	0.158	0.172	0.186	0.192	0.197	0.203	0.210	0.216	0.214	0.211	0.209	0.206	0.204
MSW and C&I to RDF	0.017	0.018	0.019	0.021	0.022	0.023	0.026	0.029	0.032	0.035	0.038	0.039	0.040	0.041	0.043	0.044	0.043	0.043	0.042	0.042	0.041
MSW and C&I treatment - non-hazardous	0.063	0.068	0.072	0.077	0.082	0.088	0.098	0.109	0.120	0.131	0.142	0.146	0.151	0.155	0.160	0.165	0.163	0.161	0.159	0.157	0.155
MSW and C&I treatment - hazardous	0.007	0.008	0.008	0.009	0.009	0.010	0.011	0.012	0.013	0.015	0.016	0.016	0.017	0.017	0.018	0.018	0.018	0.018	0.018	0.017	0.017
Hazardous waste recovery	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Recycling residues (of waste managed):																					
MSW and C&I recycling and composting	0.067	0.073	0.078	0.084	0.090	0.097	0.102	0.107	0.112	0.116	0.121	0.125	0.129	0.133	0.137	0.142	0.146	0.150	0.154	0.158	0.163
C&D recycling	0.032	0.033	0.033	0.034	0.035	0.036	0.036	0.036	0.036	0.036	0.036	0.037	0.038	0.040	0.041	0.043	0.043	0.043	0.043	0.043	0.043
Hazardous waste recycling	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Note: All residues are calculated on the amount of waste arising not on the maount of capacity available. This is complaince with the self-sufficiency requirements of PPS10.

DATA_10: TOTAL MSW AND C&I RESIDUE FROM RECYCLING SENT TO NON-HAZARDOUS LANDFILL (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Total MSW and C&I recycling and composting residue sent to non-hazardous landfill	0.099	0.105	0.112	0.118	0.125	0.133	0.138	0.143	0.148	0.152	0.156	0.162	0.167	0.173	0.179	0.185	0.189	0.193	0.197	0.201	0.205

DATA_11: TOTAL MSW AND C&I RESIDUE FROM RECOVERY SENT TO NON-HAZARDOUS LANDFILL AND C&D RECYCLING (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
SCENARIO 1 - Assumes all recovery is by 'Non-specialist incineration' (based on total recovery capacity)																					
(1) Total MSW and C&I residue sent to non-hazardous landfill assuming all MSW and C&I recovery by 'Non-specialist incineration'	0.021	0.023	0.024	0.026	0.027	0.029	0.033	0.036	0.040	0.044	0.047	0.049	0.050	0.052	0.053	0.055	0.054	0.054	0.053	0.052	0.052
(1) Total MSW and C&I residue sent to inert landfill assuming all MSW and C&I recovery by 'Non-specialist incineration'	0.021	0.023	0.024	0.026	0.027	0.029	0.033	0.036	0.040	0.044	0.047	0.049	0.050	0.052	0.053	0.055	0.054	0.054	0.053	0.052	0.052
SCENARIO 2 - Assumes all recovery is by 'MBT' (based on total recovery capacity)																					
Total MSW and C&I residue sent to non-hazardous landfill	0.083	0.089	0.095	0.101	0.107	0.115	0.129	0.143	0.158	0.172	0.186	0.192	0.197	0.203	0.210	0.216	0.214	0.211	0.209	0.206	0.204
SCENARIO 3 - Assumes all recovery is by 'RDF' (based on total recovery capacity)																					
Total MSW and C&I residue sent to non-hazardous landfill	0.017	0.018	0.019	0.021	0.022	0.023	0.026	0.029	0.032	0.035	0.038	0.039	0.040	0.041	0.043	0.044	0.043	0.043	0.042	0.042	0.041
SCENARIO 4 - Assumes all recovery is by 'treatment' (based on total recovery capacity)																					
Total MSW and C&I residue sent to non-hazardous landfill	0.063	0.068	0.072	0.077	0.082	0.088	0.098	0.109	0.120	0.131	0.142	0.146	0.151	0.155	0.160	0.165	0.163	0.161	0.159	0.157	0.155

(1) It was assumed that 50% of residue from 'non-specialist incineration' is sent to non-hazardous landfill and 50% is sent to inert landfill. In the original model assumptions developed MEL 50% was assumed to go to C&D recycling, rather than to inert landfi

DATA_12: TONNAGES OF C&D REUSED ON NON-HAZARDOUS AND INERT LANDFILL (Million Tonnes)

(1) C&D reused on landfill sites	39 %
(1) C&D reused on exempt sites	61 %
(1) C&D reused on landfill sites sent to 'non-haz landfill'	30 %
(1) C&D reused on landfill sites sent to 'inert landfill'	70 %

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
c&d	Total C&D reused on non-hazardous landfill	0.030	0.029	0.029	0.028	0.028	0.027	0.028	0.028	0.029	0.029	0.030	0.028	0.027	0.026	0.024	0.023	0.024	0.024	0.024	0.024	0.025
	Total reused C&D on inert landfill	0.070	0.068	0.067	0.066	0.065	0.064	0.065	0.066	0.067	0.068	0.070	0.066	0.063	0.060	0.057	0.054	0.055	0.056	0.056	0.057	0.058

(1) C&D reuse rates based on original model assumptions developed MEL
NOTE: C&D reuse on inert and non-hazardous landfill is not included within the charts because it has been assumed that data supplied by each sub-region has accounted for C&D reuse as an engineering material.

DATA_13: TOTAL MSW AND C&I RESIDUE FROM RECYCLING SENT TO HAZARDOUS LANDFILL (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Total MSW and C&I recycling and composting residue sent to hazardous landfill	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

DATA_14: TOTAL MSW AND C&I RESIDUE FROM RECOVERY SENT TO HAZARDOUS LANDFILL (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
SCENARIO 1 - Assumes all recovery is by 'Non-specialist incineration' (based on total recovery capacity)																					
Total MSW and C&I residue sent to hazardous landfill assuming all MSW and C&I recovery by 'Non-specialist incineration'	0.004	0.005	0.005	0.005	0.005	0.006	0.007	0.007	0.008	0.009	0.009	0.010	0.010	0.010	0.011	0.011	0.011	0.011	0.011	0.010	0.010
SCENARIO 2 - Assumes all recovery is by 'MBT' (based on total recovery capacity)																					
Total MSW and C&I residue sent to hazardous landfill	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SCENARIO 3 - Assumes all recovery is by 'RDF' (based on total recovery capacity)																					
Total MSW and C&I residue sent to hazardous landfill	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SCENARIO 4 - Assumes all recovery is by 'treatment' (based on total recovery capacity)																					
Total MSW and C&I residue sent to hazardous landfill	0.007	0.008	0.008	0.009	0.009	0.010	0.011	0.012	0.013	0.015	0.016	0.016	0.017	0.017	0.018	0.018	0.018	0.018	0.018	0.017	0.017

NOTE: This element of the model is redundant. There is currently no hazardous waste capacity figures to generate a chart of managed waste versus available capacity.

DATA_15: TOTAL HAZARDOUS WASTE RESIDUE FROM RECOVERY AND RECYCLING SENT TO HAZARDOUS LANDFILL (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Total hazardous waste recycling and recovery residue sent to hazardous landfill	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Buckinghamshire

CHART_06

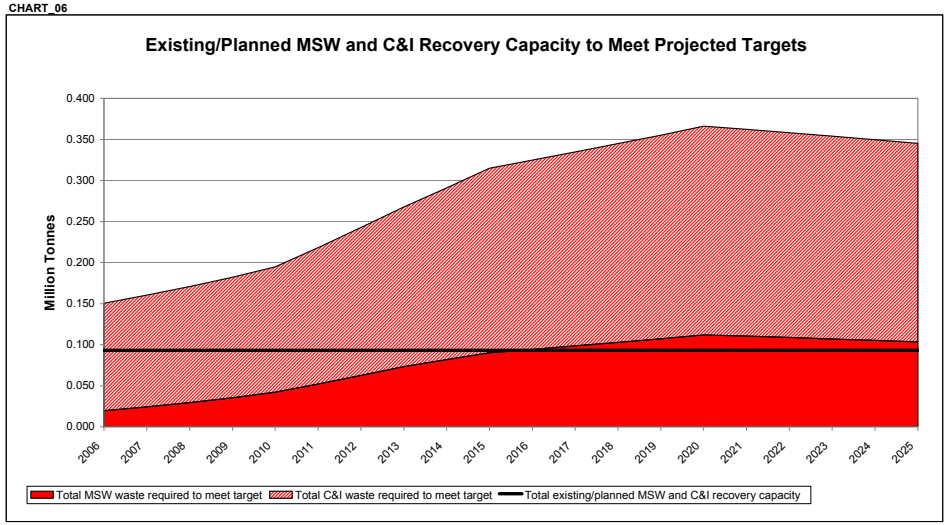


CHART_07

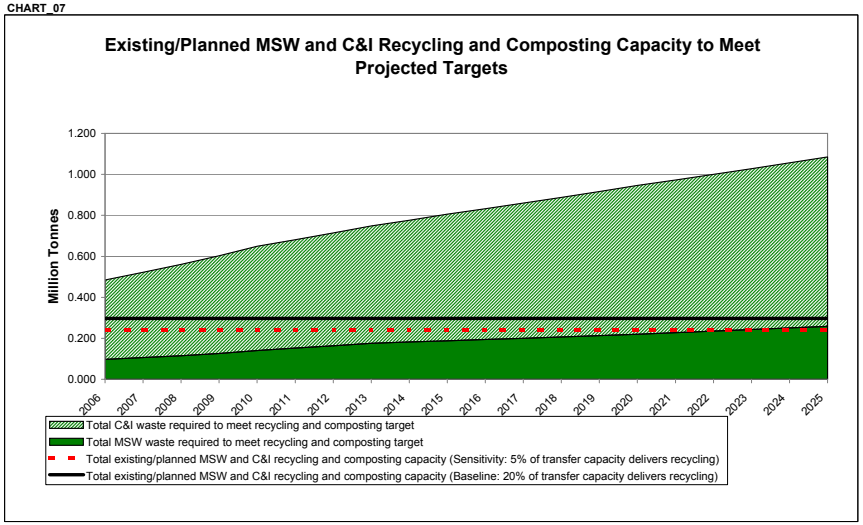
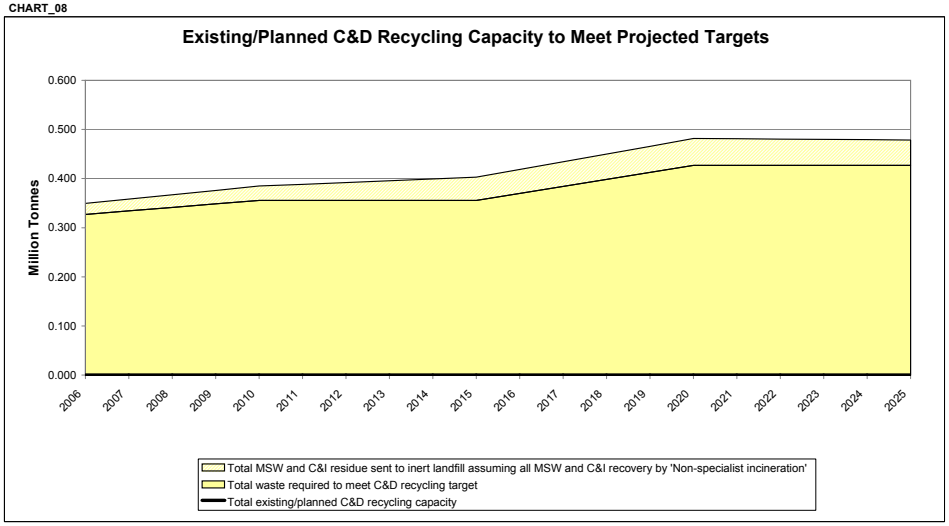


CHART_08



Buckinghamshire

CHART_09

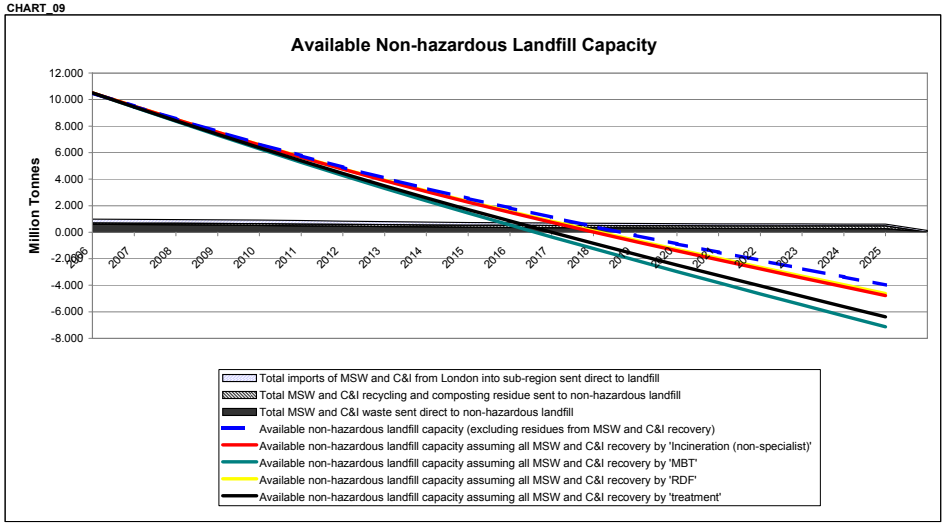
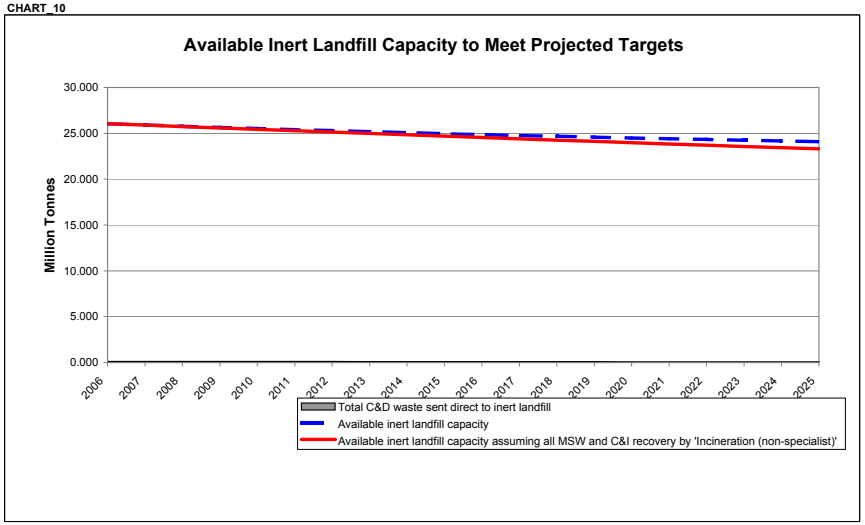


CHART_10



NOTE: The graph assumes that the baseline capacity for non-hazardous landfill has accounted for C&D reuse as a landfill engineering material.

East Sussex

SUMMARY DATA AND RESULTS FOR EAST SUSSEX

MANAGED WASTE USED TO GENERATE RESULTS (Million Tonnes)	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	0.419	0.429	0.440	0.451	0.462	0.472	0.481	0.491	0.500	0.510	0.518	0.526	0.534	0.542	0.550	0.558	0.567	0.575	0.584	0.592
msw - imports from london that are sent direct to non-hazardous landfill	0.073	0.071	0.069	0.067	0.065	0.061	0.058	0.054	0.051	0.047	0.045	0.043	0.041	0.039	0.037	0.036	0.036	0.035	0.034	0.033
c&i	0.414	0.424	0.435	0.445	0.457	0.466	0.475	0.485	0.494	0.504	0.512	0.519	0.527	0.535	0.543	0.548	0.554	0.559	0.565	0.571
c&i - imports from london that are sent direct to non-hazardous landfill	0.072	0.070	0.068	0.066	0.064	0.061	0.057	0.054	0.050	0.046	0.044	0.042	0.041	0.039	0.037	0.036	0.035	0.034	0.033	0.032
c&d	0.370	0.370	0.370	0.370	0.370	0.370	0.370	0.370	0.370	0.370	0.370	0.370	0.370	0.370	0.370	0.370	0.370	0.370	0.370	0.370
hazardous	0.024	0.025	0.025	0.026	0.026	0.027	0.027	0.028	0.029	0.029	0.030	0.030	0.030	0.031	0.031	0.032	0.032	0.032	0.033	0.033

WASTE STREAM TONNAGES TO MEET TARGETS (Million Tonnes)		2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	LATS shortfall (how much extra is landfilled above LATS target)	*0.054*	*0.052*	*0.050*	*0.049*	*0.049*	*0.049*	*0.049*	*0.048*	*0.038*	*0.028*	*0.026*	*0.024*	*0.021*	*0.019*	*0.016*	*0.016*	*0.016*	*0.017*	*0.017*	*0.017*
	Recycling and composting target	0.179	0.188	0.198	0.210	0.223	0.235	0.247	0.260	0.267	0.274	0.282	0.289	0.297	0.305	0.313	0.323	0.334	0.345	0.356	0.368
	Recovery target	0.036	0.043	0.051	0.059	0.067	0.080	0.094	0.108	0.120	0.132	0.137	0.142	0.148	0.154	0.159	0.157	0.155	0.152	0.150	0.147
	Non-hazardous landfill	0.204	0.198	0.191	0.183	0.173	0.156	0.140	0.123	0.114	0.105	0.099	0.094	0.089	0.083	0.077	0.078	0.078	0.078	0.078	0.078
c&i	Recycling and composting target	0.174	0.187	0.200	0.214	0.228	0.238	0.247	0.257	0.267	0.277	0.287	0.296	0.306	0.316	0.326	0.335	0.343	0.352	0.362	0.371
	Recovery target	0.059	0.061	0.063	0.066	0.068	0.075	0.081	0.087	0.094	0.101	0.103	0.106	0.109	0.111	0.114	0.113	0.112	0.111	0.110	0.108
	Non-hazardous landfill	0.181	0.176	0.171	0.166	0.160	0.154	0.147	0.141	0.133	0.126	0.122	0.117	0.113	0.108	0.103	0.101	0.099	0.096	0.094	0.091
c&d	Recycling target	0.170	0.174	0.178	0.181	0.185	0.185	0.185	0.185	0.185	0.185	0.192	0.200	0.207	0.215	0.222	0.222	0.222	0.222	0.222	0.222
	Recovery target	0.131	0.129	0.127	0.124	0.122	0.124	0.127	0.129	0.131	0.133	0.127	0.121	0.115	0.110	0.104	0.105	0.107	0.108	0.110	0.111
	Inert landfill	0.069	0.067	0.066	0.064	0.063	0.061	0.058	0.056	0.054	0.052	0.050	0.049	0.047	0.046	0.044	0.043	0.041	0.040	0.038	0.037
hazardous	Hazardous waste	0.024	0.025	0.025	0.026	0.026	0.027	0.027	0.028	0.029	0.029	0.030	0.030	0.030	0.031	0.031	0.032	0.032	0.032	0.033	0.033

Note: If there is a LATS shortfall, denoted by a positive number, (ie insufficient allowance to landfill non-diverted waste) then the model assumes that this extra waste is recycled/composted and recovered at the same ratio as the regional targets for recycling/composting and recovery for that year.

EXISTING/PLANNED CAPACITY FOR RECYCLING, RECOVERY AND LANDFILLING AND TOTAL WASTE TONNAGES TO EACH DISPOSAL ROUTE (Million Tonnes)		2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
MSW and C&I recovery																					
	Total existing/planned MSW and C&I recovery capacity	0.256	0.256	0.256	0.256	0.256	0.256	0.256	0.256	0.256	0.256	0.256	0.256	0.256	0.256	0.256	0.256	0.256	0.256	0.256	0.256
	Surplus/deficit capacity	0.161	0.152	0.142	0.131	0.120	0.101	0.081	0.060	0.042	0.023	0.015	0.007	-0.001	-0.009	-0.018	-0.014	-0.011	-0.007	-0.004	0.000
MSW and C&I recycling and composting																					
	Total existing/planned MSW and C&I recycling and composting capacity (Baseline: 20% of transfer capacity delivers recycling)	0.311	0.311	0.311	0.311	0.311	0.311	0.311	0.311	0.311	0.311	0.311	0.311	0.311	0.311	0.311	0.311	0.311	0.311	0.311	0.311
	Total existing/planned MSW and C&I recycling and composting capacity (Sensitivity: 5% of transfer capacity delivers recycling)	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100
	Surplus/deficit capacity (Baseline: 20% of transfer capacity delivers recycling)	-0.042	-0.064	-0.087	-0.113	-0.140	-0.161	-0.183	-0.206	-0.223	-0.241	-0.258	-0.275	-0.292	-0.310	-0.328	-0.347	-0.367	-0.387	-0.407	-0.428
	Surplus/deficit capacity (Sensitivity: 5% of transfer capacity delivers recycling)	-0.252	-0.274	-0.298	-0.323	-0.351	-0.372	-0.394	-0.416	-0.433	-0.451	-0.468	-0.485	-0.503	-0.521	-0.539	-0.558	-0.577	-0.597	-0.618	-0.638
C&D recycling																					
	Total existing/planned C&D recycling capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Surplus/deficit capacity	-0.170	-0.174	-0.178	-0.181	-0.185	-0.185	-0.185	-0.185	-0.185	-0.185	-0.192	-0.200	-0.207	-0.215	-0.222	-0.222	-0.222	-0.222	-0.222	-0.222
C&D recovery																					
	REGIONAL total existing/planned C&D recovery capacity	1.794	1.710	1.627	1.544	1.460	1.439	1.418	1.398	1.377	1.356	1.325	1.293	1.262	1.231	1.199	1.220	1.241	1.262	1.283	1.304
	Surplus/deficit capacity	1.663	1.582	1.500	1.419	1.338	1.315	1.292	1.269	1.246	1.223	1.197	1.172	1.147	1.121	1.096	1.115	1.135	1.154	1.173	1.193
Hazardous waste recycling																					
	Total existing/planned hazardous waste recycling capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Surplus/deficit capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hazardous waste recovery																					
	Total existing/planned hazardous waste recovery capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Surplus/deficit capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Non-hazardous landfill																					
	Available non-hazardous landfill capacity (excluding residues from MSW and C&I recovery)	0.825	0.226	-0.363	-0.940	-1.503	-2.051	-2.573	-3.067	-3.534	-3.980	-4.405	-4.820	-5.225	-5.619	-6.002	-6.375	-6.747	-7.117	-7.487	-7.856
	Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'Incineration (non-specialist)'	0.825	0.211	-0.393	-0.987	-1.568	-2.137	-2.682	-3.203	-3.699	-4.177	-4.637	-5.088	-5.530	-5.962	-6.386	-6.799	-7.211	-7.622	-8.031	-8.439
	Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'MBT'	0.825	0.170	-0.480	-1.124	-1.761	-2.389	-3.002	-3.600	-4.182	-4.754	-5.316	-5.873	-6.424	-6.970	-7.510	-8.044	-8.575	-9.103	-9.628	-10.149
	Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'RDF'	0.825	0.214	-0.387	-0.977	-1.555	-2.120	-2.660	-3.176	-3.666	-4.138	-4.591	-5.034	-5.469	-5.894	-6.309	-6.714	-7.119	-7.521	-7.922	-8.322
	Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'treatment'	0.825	0.183	-0.452	-1.080	-1.700	-2.309	-2.900	-3.473	-4.028	-4.571	-5.100	-5.623	-6.140	-6.649	-7.152	-7.648	-8.141	-8.632	-9.120	-9.605
Inert landfill																					
	Available inert landfill capacity	0.000	-0.069	-0.136	-0.202	-0.266	-0.329	-0.390	-0.448	-0.505	-0.559	-0.611	-0.661	-0.710	-0.757	-0.803	-0.847	-0.890	-0.932	-0.972	-1.010
	Available inert landfill capacity assuming all MSW and C&I recovery by 'Incineration (non-specialist)'	0.000	-0.083	-0.166	-0.249	-0.332	-0.415	-0.499	-0.584	-0.669	-0.756	-0.842	-0.929	-1.015	-1.100	-1.186	-1.272	-1.355	-1.436	-1.516	-1.593
Hazardous landfill																					
	Available hazardous landfill capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Note: The model does not contain data for the management of hazardous waste.

DATA_01: ARISINGS AND GROWTH RATES OF MSW, C&I AND HAZARDOUS WASTE (Million Tonnes)		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	Arisings of MSW in baseline year																					
	(1) Forecast regional level growth rate of MSW - per year (%)	3.0%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%
	(1) Forecast regional level growth rate of MSW - cumulative (%)	106%	109%	111%	114%	117%	120%	122%	125%	127%	130%	133%	135%	137%	139%	141%	143%	145%	147%	149%	152%	154%
	Total arisings of MSW using regional growth forecasts	0.409	0.419	0.429	0.440	0.451	0.462	0.472	0.481	0.491	0.500	0.510	0.518	0.526	0.534	0.542	0.550	0.558	0.567	0.575	0.584	0.592
	(1) Forecast sub-regional growth rate of MSW - per year (%)	2.0%	2.0%	1.0%	1.0%	1.0%	1.0%	1.0%	0.5%	0.5%	0.5%	0.5%	0.5%	0.5%	0.5%	0.5%	0.5%	0.5%	0.5%	0.5%	0.5%	0.5%
	(1) Forecast sub-regional level growth rate of MSW - cumulative (%)	104%	106%	107%	108%	109%	110%	112%	112%	113%	113%	114%	114%	115%	115%	116%	117%	117%	118%	118%	119%	120%
	Total arisings of MSW using sub-regional growth forecasts	0.401	0.409	0.413	0.417	0.421	0.425	0.430	0.432	0.434	0.436	0.438	0.440	0.443	0.445	0.447	0.449	0.452	0.454	0.456	0.458	0.461
c&i	Arisings of C&I in baseline year																					
	(1) Forecast regional level growth rate of C&I - per year (%)	3.3%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.0%	1.0%	1.0%	1.0%	1.0%
	(1) Forecast regional level growth rate of C&I - cumulative (%)	114%	117%	119%	122%	126%	129%	131%	134%	137%	139%	142%	144%	146%	149%	151%	153%	155%	156%	158%	159%	161%
	Total arisings of C&I using regional growth forecasts	0.404	0.414	0.424	0.435	0.445	0.457	0.466	0.475	0.485	0.494	0.504	0.512	0.519	0.527	0.535	0.543	0.548	0.554	0.559	0.565	0.571
	(1) Forecast sub-regional level growth rate of C&I - per year (%)	0.7%	0.7%	0.7%	0.7%	0.7%	0.7%	0.7%	0.7%	0.7%	0.7%	0.7%	0.7%	0.7%	0.7%	0.7%	0.7%	0.7%	0.7%	0.7%	0.7%	0.7%
	(1) Forecast sub-regional level growth rate of C&I - cumulative (%)	103%	104%	104%	105%	106%	106%	107%	108%	109%	109%	110%	111%	112%	113%	113%	114%	115%	116%	117%	117%	118%
	Total arisings of C&I using sub-regional growth forecasts	0.365	0.367	0.370	0.373	0.375	0.378	0.380	0.383	0.386	0.388	0.391	0.394	0.397	0.399	0.402	0.405	0.408	0.411	0.414	0.417	0.419
hazardous	Arisings of hazardous waste in baseline year																					
	(2) Forecast regional level growth rate of hazardous waste - per year (%)	3.3%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.0%	1.0%	1.0%	1.0%	1.0%
	Forecast regional level growth rate of hazardous waste - cumulative (%)	107%	109%	112%	115%	118%	121%	123%	126%	128%	131%	133%	135%	137%	139%	141%	144%	145%	146%	148%	149%	151%
	Total arisings of hazardous waste	0.023	0.024	0.025	0.025	0.026	0.026	0.027	0.027	0.028	0.029	0.029	0.030	0.030	0.030	0.031	0.031	0.032	0.032	0.032	0.033	0.033
	(2) Forecast sub-regional level growth rate of hazardous waste - per year (%)	0.7%	0.7%	0.7%	0.7%	0.7%	0.7%	0.7%	0.7%	0.7%	0.7%	0.7%	0.7%	0.7%	0.7%	0.7%	0.7%	0.7%	0.7%	0.7%	0.7%	0.7%
	Forecast sub regional level growth rate of hazardous waste - cumulative (%)	101%	102%	103%	104%	104%	105%	106%	106%	107%	108%	109%	109%	110%	111%	112%	113%	113%	114%	115%	116%	117%
	Total arisings of hazardous waste	0.022	0.022	0.023	0.023	0.023	0.023	0.023	0.023	0.023	0.024	0.024	0.024	0.024	0.024	0.024	0.025	0.025	0.025	0.025	0.025	0.026
c&d	Total managed C&D in baseline year																					
	(3) Forecast regional-level growth rate of managed C&D - per year (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Forecast regional-level growth rate of managed C&D - cumulative (%)	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
	(3) Total managed of C&D for the sub-region	0.370	0.370	0.370	0.370	0.370	0.370	0.370	0.370	0.370	0.370	0.370	0.370	0.370	0.370	0.370	0.370	0.370	0.370	0.370	0.370	0.370

(1) Figures from SEERA updated waste capacity model by ERM in 2005.
(2) Baseline year of hazardous waste arisings is 2003 from EA Hazardous Waste Interrogator. www.environment-agency.gov.uk/apps/wastesurvey2/. ERM has assumed that growth in hazardous waste is equal to C&I waste.
(3) These data represent managed C&D waste in the sub-region, including all intra-regional and inter-regional movements. Growth is assumed to be zero from the orginal MEL study and updated modeted by ERM in 2005.
NOTE: C&D waste is not included in arisings because this was taken from survey data by Symonds 2001 which gave values for managed C&D waste.

East Sussex

Figure in blue represent data supplied by each sub-region for the new '2006 SEERA Capacity and Need Model'
Figures in orange represent managed waste that are used by the model to calculate results. These can be adjusted for different scenarios.

DATA_02: INTER REGIONAL MOVEMENTS OF MSW and C&I (Million Tonnes)		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw and c&i	Regional level imports of MSW and C&I waste into the SE region from London	1.76	1.716	1.672	1.628	1.584	1.54	1.454	1.368	1.282	1.196	1.11	1.064	1.018	0.972	0.926	0.88	0.86	0.84	0.82	0.8	0.78
	Proportion of regional MSW and C&I imports that go to the sub-region (%)	8.4%	8.4%	8.4%	8.4%	8.4%	8.4%	8.4%	8.4%	8.4%	8.4%	8.4%	8.4%	8.4%	8.4%	8.4%	8.4%	8.4%	8.4%	8.4%	8.4%	8.4%
	(1) Total imports of MSW and C&I from London into sub-region sent direct to landfill	0.148	0.144	0.140	0.137	0.133	0.129	0.122	0.115	0.108	0.100	0.093	0.089	0.086	0.082	0.078	0.074	0.072	0.071	0.069	0.067	0.066
msw	Proportion of total MSW and C&I imports that are MSW (%) - REGIONAL GROWTH FORECAST	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	51%	51%	51%	51%
	Total imports of MSW into the sub-region from London - REGIONAL GROWTH FORECAST	0.074	0.073	0.071	0.069	0.067	0.065	0.061	0.058	0.054	0.051	0.047	0.045	0.043	0.041	0.039	0.037	0.036	0.036	0.035	0.034	0.033
	Proportion of total MSW and C&I imports that are MSW (%) - SUB-REGIONAL GROWTH FORECAST	52%	53%	53%	53%	53%	53%	53%	53%	53%	53%	53%	53%	53%	53%	53%	53%	53%	52%	52%	52%	52%
	Total imports of MSW into the sub-region from London - SUB-REGIONAL GROWTH FORECAST	0.077	0.076	0.074	0.072	0.070	0.069	0.065	0.061	0.057	0.053	0.049	0.047	0.045	0.043	0.041	0.039	0.038	0.037	0.036	0.035	0.034
c&i	Proportion of total MSW and C&I imports that are C&I (%) - REGIONAL GROWTH FORECAST	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	50%	49%	49%	49%	49%
	Total imports of C&I into the sub-region from London - REGIONAL GROWTH FORECAST	0.073	0.072	0.070	0.068	0.066	0.064	0.061	0.057	0.054	0.050	0.046	0.044	0.042	0.041	0.039	0.037	0.036	0.035	0.034	0.033	0.032
	Proportion of total MSW and C&I imports that are C&I (%) - SUB-REGIONAL GROWTH FORECAST	48%	47%	47%	47%	47%	47%	47%	47%	47%	47%	47%	47%	47%	47%	47%	47%	47%	48%	48%	48%	48%
	Total imports of C&I into the sub-region from London - SUB-REGIONAL GROWTH FORECAST	0.070	0.068	0.066	0.065	0.063	0.061	0.057	0.054	0.051	0.047	0.044	0.042	0.040	0.039	0.037	0.035	0.034	0.034	0.033	0.032	0.031

(1) Intra-regional and inter-regional movements have been excluded for MSW and C&I waste due to self-sufficiency requirements under PPS10, except for inter-regional movements from London into the sub-region. Apportionment from Policy W3 in the SEERA Plan. http://www.southeast-ra.gov.uk/southeastplan/plan/march_2006/core_document/009_seera_sep_d06.pdf
Note: Only a figure is available for total combined imports of MSW and C&I waste. ERM has assumed that imports of the seperate waste streams of MSW and C&I was split according to tonnage arisings of MSW and C&I in the sub-region.

DATA_03: MANAGED WASTE USED TO GENERATE RESULTS (Million Tonnes)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	0.409	0.419	0.429	0.440	0.451	0.462	0.472	0.481	0.491	0.500	0.510	0.518	0.526	0.534	0.542	0.550	0.558	0.567	0.575	0.584	0.592
msw - imports from london that are sent direct to non-hazardous landfill	0.074	0.073	0.071	0.069	0.067	0.065	0.061	0.058	0.054	0.051	0.047	0.045	0.043	0.041	0.039	0.037	0.036	0.036	0.035	0.034	0.033
c&i	0.404	0.414	0.424	0.435	0.445	0.457	0.466	0.475	0.485	0.494	0.504	0.512	0.519	0.527	0.535	0.543	0.548	0.554	0.559	0.565	0.571
c&i - imports from london that are sent direct to non-hazardous landfill	0.073	0.072	0.070	0.068	0.066	0.064	0.061	0.057	0.054	0.050	0.046	0.044	0.042	0.041	0.039	0.037	0.036	0.035	0.034	0.033	0.032
c&d	0.370	0.370	0.370	0.370	0.370	0.370	0.370	0.370	0.370	0.370	0.370	0.370	0.370	0.370	0.370	0.370	0.370	0.370	0.370	0.370	0.370
hazardous	0.023	0.024	0.025	0.025	0.026	0.026	0.027	0.027	0.028	0.029	0.029	0.030	0.030	0.030	0.031	0.031	0.032	0.032	0.032	0.033	0.033

DATA_04: TARGETS (% or Million Tonnes)		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	(1) landfill (Mt)	0.124	0.122	0.118	0.114	0.109	0.102	0.091	0.079	0.068	0.065	0.062	0.059	0.056	0.053	0.050	0.048	0.048	0.048	0.048	0.048	0.048
	recovered (%)	5	6.4	7.8	9.2	10.6	12	14.4	16.8	19.2	21.6	24	24.8	25.6	26.4	27.2	28	27.2	26.4	25.6	24.8	24
	recycled and composted (%)	30	32.0	34.0	36.0	38.0	40	42.0	44.0	46.0	48.0	50	51.0	52.0	53.0	54.0	55	56.0	57.0	58.0	59.0	60
c&i	recovered (%)	14	14.2	14.4	14.6	14.8	15	16.0	17.0	18.0	19.0	20	20.2	20.4	20.6	20.8	21	20.6	20.2	19.8	19.4	19
	recycled and composted (%)	40	42.0	44.0	46.0	48.0	50	51.0	52.0	53.0	54.0	55	56.0	57.0	58.0	59.0	60	61.0	62.0	63.0	64.0	65
c&d	recovered (%)	36	35.4	34.8	34.2	33.6	33	33.6	34.2	34.8	35.4	36	34.4	32.8	31.2	29.6	28	28.4	28.8	29.2	29.6	30
	recycled (%)	45	46.0	47.0	48.0	49.0	50	50.0	50.0	50.0	50.0	50	52.0	54.0	56.0	58.0	60	60.0	60.0	60.0	60.0	60
hazardous	landfill (%)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	recovered (%)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	recycled (%)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

(1) ERM has assumed that the LATS target allowance remains constant at the 2020 value for the years beyond 2020

DATA_05: WASTE STREAM TONNAGES TO MEET TARGETS (Million Tonnes)

This first section of DATA_03 calculates if there is a LATS shortfall or suplus in each year. If there is a LATS shortfall (ie insufficient allowance to landfill non-diverted waste) then the model assumes that this extra waste is recycled/composted and r

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	Total MSW to be recovered and recycled/composted to meet target	0.143	0.161	0.179	0.199	0.219	0.240	0.266	0.292	0.320	0.348	0.378	0.393	0.408	0.424	0.440	0.456	0.464	0.472	0.481	0.489	0.498
	Total MSW not-diverted by targets	0.266	0.258	0.250	0.241	0.232	0.222	0.206	0.189	0.171	0.152	0.133	0.125	0.118	0.110	0.102	0.093	0.094	0.094	0.094	0.095	0.095
	Percentage of MSW that is biodegradable (% by weight)	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68
	Total BMW not-diverted by targets	0.181	0.175	0.170	0.164	0.158	0.151	0.140	0.128	0.116	0.103	0.090	0.085	0.080	0.075	0.069	0.064	0.064	0.064	0.064	0.064	0.064
	LATS shortfall (how much extra is landfilled above LATS target)	0.057	0.054	0.052	0.050	0.049	0.049	0.049	0.049	0.048	0.038	0.028	0.026	0.024	0.021	0.019	0.016	0.016	0.016	0.017	0.017	0.017
	Ratio of 'recovered' to 'recycled/composted' for target (%)	14%	17%	19%	20%	22%	23%	26%	28%	29%	31%	32%	33%	33%	33%	33%	34%	33%	32%	31%	30%	29%
	Extra MSW 'recovery' needed due to LATS shortfall	*0.008*	*0.009*	*0.010*	*0.010*	*0.011*	*0.011*	*0.013*	*0.014*	*0.014*	*0.012*	*0.009*	*0.009*	*0.008*	*0.007*	*0.006*	*0.005*	*0.005*	*0.005*	*0.005*	*0.005*	*0.005*
	Extra MSW 'recycling/composting' needed due to LATS shortfall	*0.049*	*0.045*	*0.042*	*0.040*	*0.038*	*0.038*	*0.037*	*0.035*	*0.034*	*0.026*	*0.019*	*0.018*	*0.016*	*0.014*	*0.012*	*0.011*	*0.011*	*0.011*	*0.011*	*0.012*	*0.012*

The section below in DATA_03 shows the tonnages by waste to meet targets.

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	Recycling and composting target	0.171	0.179	0.188	0.198	0.210	0.223	0.235	0.247	0.260	0.267	0.274	0.282	0.289	0.297	0.305	0.313	0.323	0.334	0.345	0.356	0.368
	Recovery target	0.029	0.036	0.043	0.051	0.059	0.067	0.080	0.094	0.108	0.120	0.132	0.137	0.142	0.148	0.154	0.159	0.157	0.155	0.152	0.150	0.147
	Non-hazardous landfill	0.209	0.204	0.198	0.191	0.183	0.173	0.156	0.140	0.123	0.114	0.105	0.099	0.094	0.089	0.083	0.077	0.078	0.078	0.078	0.078	0.078
	CHECK COUNTER (should be zero)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
c&i	Recycling and composting target	0.161	0.174	0.187	0.200	0.214	0.228	0.238	0.247	0.257	0.267	0.277	0.287	0.296	0.306	0.316	0.326	0.335	0.343	0.352	0.362	0.371
	Recovery target	0.056	0.059	0.061	0.063	0.066	0.068	0.075	0.081	0.087	0.094	0.101	0.103	0.106	0.109	0.111	0.114	0.113	0.112	0.111	0.110	0.108
	Non-hazardous landfill	0.186	0.181	0.176	0.171	0.166	0.160	0.154	0.147	0.141	0.133	0.126	0.122	0.117	0.113	0.108	0.103	0.101	0.099	0.096	0.094	0.091
	CHECK COUNTER (should be zero)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

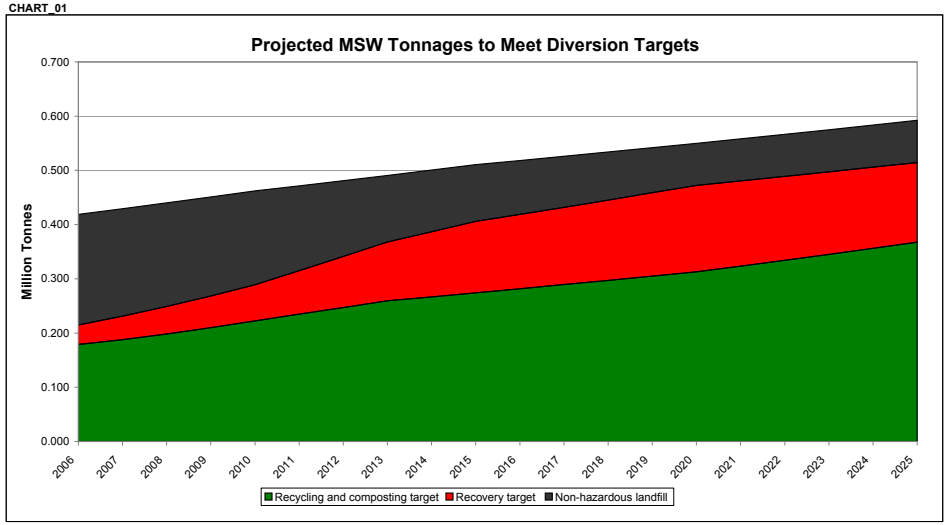
		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
c&d	Recycling target	0.167	0.170	0.174	0.178	0.181	0.185	0.185	0.185	0.185	0.185	0.185	0.192	0.200	0.207	0.215	0.222	0.222	0.222	0.222	0.222	0.222
	Recovery target	0.133	0.131	0.129	0.127	0.124	0.122	0.124	0.127	0.129	0.131	0.133	0.127	0.121	0.115	0.110	0.104	0.105	0.107	0.108	0.110	0.111
	Inert landfill	0.070	0.069	0.067	0.066	0.064	0.063	0.061	0.058	0.056	0.054	0.052	0.050	0.049	0.047	0.046	0.044	0.043	0.041	0.040	0.038	0.037
	CHECK COUNTER (should be zero)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
hazardous	Hazardous waste	0.023	0.024	0.025	0.025	0.026	0.026	0.027	0.027	0.028	0.029	0.029	0.030	0.030	0.030	0.031	0.031	0.032	0.032	0.032	0.033	0.033

DATA_06: TOTAL WASTE TONNAGES TO MEET TARGETS (Million Tonnes)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
MSW and C&I recycling and composting target	0.333	0.353	0.374	0.398	0.424	0.451	0.472	0.494	0.516	0.534	0.551	0.568	0.585	0.603	0.621	0.639	0.658	0.678	0.697	0.718	0.738
C&D recycling target	0.167	0.170	0.174	0.178	0.181	0.185	0.185	0.185	0.185	0.185	0.185	0.192	0.200	0.207	0.215	0.222	0.222	0.222	0.222	0.222	0.222
MSW and C&I recovery target	0.085	0.095	0.104	0.114	0.124	0.135	0.155	0.175	0.196	0.214	0.232	0.240	0.248	0.257	0.265	0.273	0.270	0.267	0.263	0.259	0.255
C&D recovery target	0.133	0.131	0.129	0.127	0.124	0.122	0.124	0.127	0.129	0.131	0.133	0.127	0.121	0.115	0.110	0.104	0.105	0.107	0.108	0.110	0.111
Non-hazardous landfill	0.394	0.385	0.375	0.362	0.348	0.333	0.310	0.287	0.263	0.247	0.231	0.221	0.211	0.201	0.191	0.181	0.178	0.176	0.174	0.172	0.169
Inert landfill	0.070	0.069	0.067	0.066	0.064	0.063	0.061	0.058	0.056	0.054	0.052	0.050	0.049	0.047	0.046	0.044	0.043	0.041	0.040	0.038	0.037
Hazardous waste	0.023	0.024	0.025	0.025	0.026	0.026	0.027	0.027	0.028	0.029	0.029	0.030	0.030	0.030	0.031	0.031	0.032	0.032	0.032	0.033	0.033

East Sussex

CHART_01



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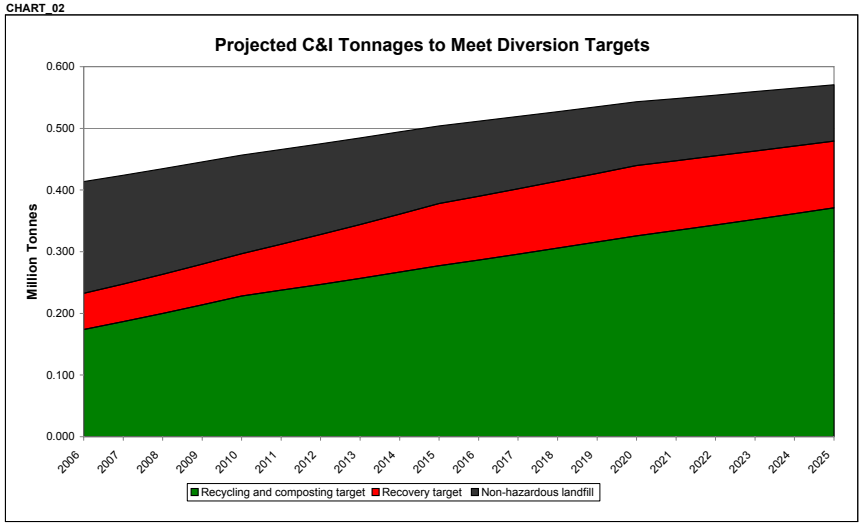

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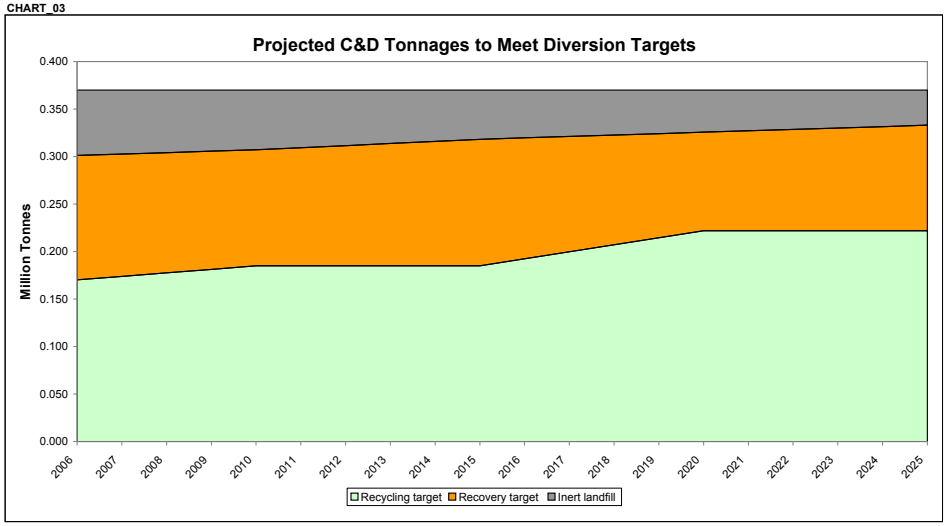

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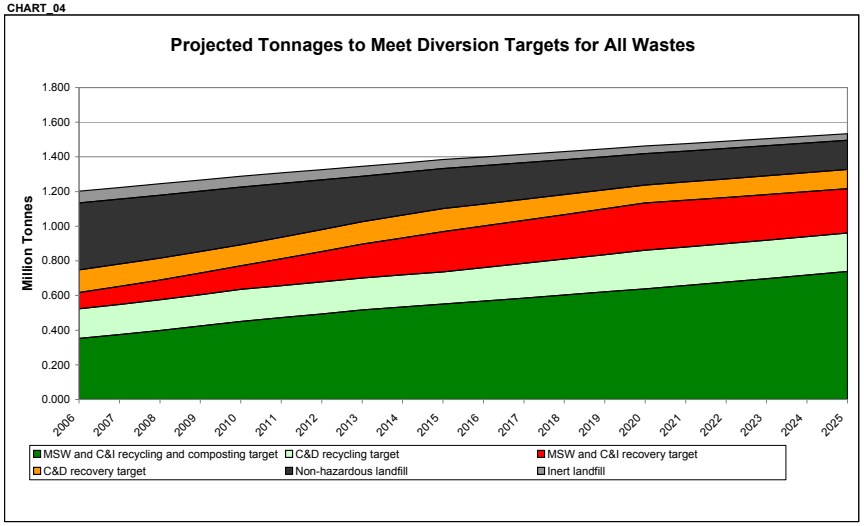
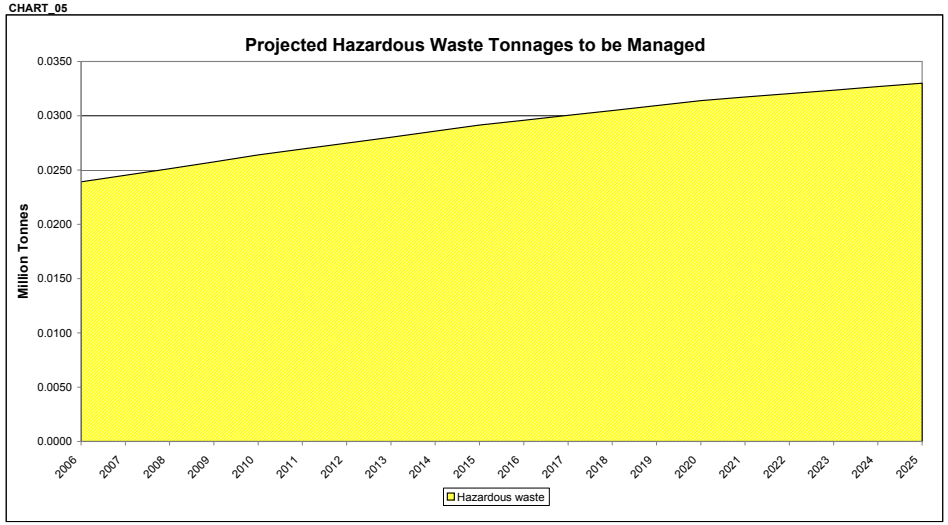


East Sussex

CHART_05



DATA_07: EXISTING/PLANNED CAPACITY FOR RECYCLING, RECOVERY AND LANDFILLING AND TOTAL WASTE TONNAGES TO EACH DISPOSAL ROUTE (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
MSW and C&I recovery																					
MSW and C&I incineration (non-specialist)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
MSW and C&I treatment	0.255	0.255	0.255	0.255	0.255	0.255	0.255	0.255	0.255	0.255	0.255	0.255	0.255	0.255	0.255	0.255	0.255	0.255	0.255	0.255	0.255
Total existing/planned MSW and C&I recovery capacity	0.256	0.256	0.256	0.256	0.256	0.256	0.256	0.256	0.256	0.256	0.256	0.256	0.256	0.256	0.256	0.256	0.256	0.256	0.256	0.256	0.256
Total MSW waste required to meet target	0.029	0.036	0.043	0.051	0.059	0.067	0.080	0.094	0.108	0.120	0.132	0.137	0.142	0.148	0.154	0.159	0.157	0.155	0.152	0.150	0.147
Total C&I waste required to meet target	0.056	0.059	0.061	0.063	0.066	0.068	0.075	0.081	0.087	0.094	0.101	0.103	0.106	0.109	0.111	0.114	0.113	0.112	0.111	0.110	0.108
Surplus/deficit capacity	0.171	0.161	0.152	0.142	0.131	0.120	0.101	0.081	0.060	0.042	0.023	0.015	0.007	-0.001	-0.009	-0.018	-0.014	-0.011	-0.007	-0.004	0.000
MSW and C&I recycling and composting																					
MSW and C&I recycling	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
MSW and C&I transfer	1.404	1.404	1.404	1.404	1.404	1.404	1.404	1.404	1.404	1.404	1.404	1.404	1.404	1.404	1.404	1.404	1.404	1.404	1.404	1.404	1.404
Total existing/planned MSW and C&I composting capacity	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030	0.030
(1) Total existing/planned MSW and C&I recycling and composting capacity (Baseline: 20% of transfer capacity delivers recycling)	0.311	0.311	0.311	0.311	0.311	0.311	0.311	0.311	0.311	0.311	0.311	0.311	0.311	0.311	0.311	0.311	0.311	0.311	0.311	0.311	0.311
(2) Total existing/planned MSW and C&I recycling and composting capacity (Sensitivity: 5% of transfer capacity delivers recycling)	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100	0.100
Total MSW waste required to meet recycling and composting target	0.171	0.179	0.188	0.198	0.210	0.223	0.235	0.247	0.260	0.267	0.274	0.282	0.289	0.297	0.305	0.313	0.323	0.334	0.345	0.356	0.368
Total C&I waste required to meet recycling and composting target	0.161	0.174	0.187	0.200	0.214	0.228	0.238	0.247	0.257	0.267	0.277	0.287	0.296	0.306	0.316	0.326	0.335	0.343	0.352	0.362	0.371
Surplus/deficit capacity (Baseline: 20% of transfer capacity delivers recycling)	-0.022	-0.042	-0.064	-0.087	-0.113	-0.140	-0.161	-0.183	-0.206	-0.223	-0.241	-0.258	-0.275	-0.292	-0.310	-0.328	-0.347	-0.367	-0.387	-0.407	-0.428
Surplus/deficit capacity (Sensitivity: 5% of transfer capacity delivers recycling)	-0.233	-0.252	-0.274	-0.298	-0.323	-0.351	-0.372	-0.394	-0.416	-0.433	-0.451	-0.468	-0.485	-0.503	-0.521	-0.539	-0.558	-0.577	-0.597	-0.618	-0.638
C&D recycling																					
(3) Total existing/planned C&D recycling capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total waste required to meet C&D recycling target	0.167	0.170	0.174	0.178	0.181	0.185	0.185	0.185	0.185	0.185	0.185	0.192	0.200	0.207	0.215	0.222	0.222	0.222	0.222	0.222	0.222
Surplus/deficit capacity	-0.167	-0.170	-0.174	-0.178	-0.181	-0.185	-0.185	-0.185	-0.185	-0.185	-0.185	-0.192	-0.200	-0.207	-0.215	-0.222	-0.222	-0.222	-0.222	-0.222	-0.222
C&D recovery																					
REGIONAL total existing/planned C&D recovery capacity	1.877	1.794	1.710	1.627	1.544	1.460	1.439	1.418	1.398	1.377	1.356	1.325	1.293	1.262	1.231	1.199	1.220	1.241	1.262	1.283	1.304
Sub-regional total waste required to meet C&D recovery target	0.133	0.131	0.129	0.127	0.124	0.122	0.124	0.127	0.129	0.131	0.133	0.127	0.121	0.115	0.110	0.104	0.105	0.107	0.108	0.110	0.111
Surplus/deficit capacity	1.744	1.663	1.582	1.500	1.419	1.338	1.315	1.292	1.269	1.246	1.223	1.197	1.172	1.147	1.121	1.096	1.115	1.135	1.154	1.173	1.193
Hazardous waste recycling																					
Total existing/planned hazardous waste recycling capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total hazardous waste to be recycled	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Surplus/deficit capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hazardous waste recovery																					
Total existing/planned hazardous waste recovery capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total hazardous waste to be recovered	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Surplus/deficit capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Non-hazardous landfill																					
Available non-hazardous landfill capacity (excluding residues from MSW and C&I recovery)		0.825	0.226	-0.363	-0.940	-1.503	-2.051	-2.573	-3.067	-3.534	-3.980	-4.405	-4.820	-5.225	-5.619	-6.002	-6.375	-6.747	-7.117	-7.487	-7.856
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'Incineration (non-specialist)'		0.825	0.211	-0.393	-0.987	-1.568	-2.137	-2.682	-3.203	-3.699	-4.177	-4.637	-5.088	-5.530	-5.962	-6.386	-6.799	-7.211	-7.622	-8.031	-8.439
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'MBT'		0.825	0.170	-0.480	-1.124	-1.761	-2.389	-3.002	-3.600	-4.182	-4.754	-5.316	-5.873	-6.424	-6.970	-7.510	-8.044	-8.575	-9.103	-9.628	-10.149
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'RDF'		0.825	0.214	-0.387	-0.977	-1.555	-2.120	-2.660	-3.176	-3.666	-4.138	-4.591	-5.034	-5.469	-5.894	-6.309	-6.714	-7.119	-7.521	-7.922	-8.322
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'treatment'		0.825	0.183	-0.452	-1.080	-1.700	-2.309	-2.900	-3.473	-4.028	-4.571	-5.100	-5.623	-6.140	-6.649	-7.152	-7.648	-8.141	-8.632	-9.120	-9.605
Total MSW and C&I waste sent direct to non-hazardous landfill		0.385	0.375	0.362	0.348	0.333	0.310	0.287	0.263	0.247	0.231	0.221	0.211	0.201	0.191	0.181	0.178	0.176	0.174	0.172	0.169
Inert landfill																					
Available inert landfill capacity		0.000	-0.069	-0.136	-0.202	-0.266	-0.329	-0.390	-0.448	-0.505	-0.559	-0.611	-0.661	-0.710	-0.757	-0.803	-0.847	-0.890	-0.932	-0.972	-1.010
Available inert landfill capacity assuming all MSW and C&I recovery by 'Incineration (non-specialist)'		0.000	-0.083	-0.166	-0.249	-0.332	-0.415	-0.499	-0.584	-0.669	-0.756	-0.842	-0.929	-1.015	-1.100	-1.186	-1.272	-1.355	-1.436	-1.516	-1.593
Total C&D waste sent direct to inert landfill	0.070	0.069	0.067	0.066	0.064	0.063	0.061	0.058	0.056	0.054	0.052	0.050	0.049	0.047	0.046	0.044	0.043	0.041	0.040	0.038	0.037
Hazardous landfill																					
Available hazardous landfill capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total hazardous waste sent direct to hazardous landfill	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Other																					
Metal/ELV facility	0.432	0.432	0.432	0.432	0.432	0.432	0.432	0.432	0.432	0.432	0.432	0.432	0.432	0.432	0.432	0.432	0.432	0.432	0.432	0.432	0.432
Ignored	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021	0.021
Closed	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

(1) ERM has assumed that 20% of the total 'transfer' capacity will deliver recycling capacity
(2) ERM has assumed that 5% of the total 'transfer' capacity will deliver recycling capacity
(3) Data for C&D recovery for landfill cover for the SE Region were sourced from the original MEL model, which sourced the data from Symonds (2001)
Note: The capacity model developed by ERM for this study does not include the capacity provided in the 'Others' group in its calculations because these are not relevant to the management of MSW, C&I and C&D. These data are included for the purposes of completeness.

East Sussex

DATA_08: RESIDUE RATES (%)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Recovery residues (% by weight)																					
MSW and C&I incineration (non-specialist) - bottom ash	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
MSW and C&I incineration (non-specialist) - fly ash	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
MSW and C&I to MBT	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59
MSW and C&I to RDF	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
MSW and C&I treatment - non-hazardous	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45
MSW and C&I treatment - hazardous	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Hazardous waste recovery	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Recycling residues (% by weight)																					
MSW and C&I recycling	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
(2) MSW and C&I transfer	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
MSW and C&I composting	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
C&D recycling	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Hazardous waste recycling	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Other																					
Metal/ELV facility	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Ignored	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Closed	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Note: The capacity model developed by ERM for this study does not include the capacity provided in the 'Others' group in its calculations because these are not relevant to the management of MSW, C&I and C&D. These data are included for the purposes of completeness.

DATA_09: TOTAL RESIDUE (Million Tonnes)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Recovery residues (of waste managed):																					
MSW and C&I incineration (non-specialist) - bottom ash	0.026	0.028	0.031	0.034	0.037	0.041	0.046	0.053	0.059	0.064	0.070	0.072	0.075	0.077	0.079	0.082	0.081	0.080	0.079	0.078	0.077
MSW and C&I incineration (non-specialist) - fly ash	0.003	0.003	0.003	0.003	0.004	0.004	0.005	0.005	0.006	0.006	0.007	0.007	0.007	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
MSW and C&I to MBT	0.050	0.056	0.061	0.067	0.073	0.080	0.091	0.103	0.115	0.126	0.137	0.142	0.147	0.151	0.156	0.161	0.159	0.157	0.155	0.153	0.151
MSW and C&I to RDF	0.010	0.011	0.012	0.014	0.015	0.016	0.019	0.021	0.023	0.026	0.028	0.029	0.030	0.031	0.032	0.033	0.032	0.032	0.032	0.031	0.031
MSW and C&I treatment - non-hazardous	0.038	0.043	0.047	0.051	0.056	0.061	0.070	0.079	0.088	0.096	0.105	0.108	0.112	0.115	0.119	0.123	0.122	0.120	0.118	0.117	0.115
MSW and C&I treatment - hazardous	0.004	0.005	0.005	0.006	0.006	0.007	0.008	0.009	0.010	0.011	0.012	0.012	0.012	0.013	0.013	0.014	0.014	0.013	0.013	0.013	0.013
Hazardous waste recovery	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Recycling residues (of waste managed):																					
MSW and C&I recycling and composting	0.050	0.053	0.056	0.060	0.064	0.068	0.071	0.074	0.077	0.080	0.083	0.085	0.088	0.090	0.093	0.096	0.099	0.102	0.105	0.108	0.111
C&D recycling	0.017	0.017	0.017	0.018	0.018	0.019	0.019	0.019	0.019	0.019	0.019	0.019	0.020	0.021	0.021	0.022	0.022	0.022	0.022	0.022	0.022
Hazardous waste recycling	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Note: All residues are calculated on the amount of waste arising not on the maount of capacity available. This is complaince with the self-sufficiency requirements of PPS10.

DATA_10: TOTAL MSW AND C&I RESIDUE FROM RECYCLING SENT TO NON-HAZARDOUS LANDFILL (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Total MSW and C&I recycling and composting residue sent to non-hazardous landfill	0.067	0.070	0.074	0.077	0.082	0.086	0.089	0.093	0.096	0.099	0.101	0.104	0.108	0.111	0.115	0.118	0.121	0.124	0.127	0.130	0.133

DATA_11: TOTAL MSW AND C&I RESIDUE FROM RECOVERY SENT TO NON-HAZARDOUS LANDFILL AND C&D RECYCLING (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
SCENARIO 1 - Assumes all recovery is by 'Non-specialist incineration' (based on total recovery capacity)																					
(1) Total MSW and C&I residue sent to non-hazardous landfill assuming all MSW and C&I recovery by 'Non-specialist incineration'	0.013	0.014	0.016	0.017	0.019	0.020	0.023	0.026	0.029	0.032	0.035	0.036	0.037	0.038	0.040	0.041	0.041	0.040	0.039	0.039	0.038
(1) Total MSW and C&I residue sent to inert landfill assuming all MSW and C&I recovery by 'Non-specialist incineration'	0.013	0.014	0.016	0.017	0.019	0.020	0.023	0.026	0.029	0.032	0.035	0.036	0.037	0.038	0.040	0.041	0.041	0.040	0.039	0.039	0.038
SCENARIO 2 - Assumes all recovery is by 'MBT' (based on total recovery capacity)																					
Total MSW and C&I residue sent to non-hazardous landfill	0.050	0.056	0.061	0.067	0.073	0.080	0.091	0.103	0.115	0.126	0.137	0.142	0.147	0.151	0.156	0.161	0.159	0.157	0.155	0.153	0.151
SCENARIO 3 - Assumes all recovery is by 'RDF' (based on total recovery capacity)																					
Total MSW and C&I residue sent to non-hazardous landfill	0.010	0.011	0.012	0.014	0.015	0.016	0.019	0.021	0.023	0.026	0.028	0.029	0.030	0.031	0.032	0.033	0.032	0.032	0.032	0.031	0.031
SCENARIO 4 - Assumes all recovery is by 'treatment' (based on total recovery capacity)																					
Total MSW and C&I residue sent to non-hazardous landfill	0.038	0.043	0.047	0.051	0.056	0.061	0.070	0.079	0.088	0.096	0.105	0.108	0.112	0.115	0.119	0.123	0.122	0.120	0.118	0.117	0.115

(1) It was assumed that 50% of residue from 'non-specialist incineration' is sent to non-hazardous landfill and 50% is sent to inert landfill. In the original model assumptions developed MEL 50% was assumed to go to C&D recycling, rather than to inert landfi

DATA_12: TONNAGES OF C&D REUSED ON NON-HAZARDOUS AND INERT LANDFILL (Million Tonnes)

(1) C&D reused on landfill sites	39	%
(1) C&D reused on exempt sites	61	%
(1) C&D reused on landfill sites sent to 'non-haz landfill'	30	%
(1) C&D reused on landfill sites sent to 'inert landfill'	70	%

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
c&d	Total C&D reused on non-hazardous landfill	0.016	0.015	0.015	0.015	0.014	0.014	0.014	0.015	0.015	0.015	0.016	0.015	0.014	0.013	0.013	0.012	0.012	0.012	0.013	0.013	0.013
	Total reused C&D on inert landfill	0.036	0.036	0.035	0.034	0.034	0.033	0.034	0.034	0.035	0.036	0.036	0.035	0.033	0.031	0.030	0.028	0.029	0.029	0.029	0.030	0.030

(1) C&D reuse rates based on original model assumptions developed MEL
NOTE: C&D reuse on inert and non-hazardous landfill is not included within the charts because it has been assumed that data supplied by each sub-region has accounted for C&D reuse as an engineering material.

DATA_13: TOTAL MSW AND C&I RESIDUE FROM RECYCLING SENT TO HAZARDOUS LANDFILL (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Total MSW and C&I recycling and composting residue sent to hazardous landfill	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

DATA_14: TOTAL MSW AND C&I RESIDUE FROM RECOVERY SENT TO HAZARDOUS LANDFILL (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
SCENARIO 1 - Assumes all recovery is by 'Non-specialist incineration' (based on total recovery capacity)																					
Total MSW and C&I residue sent to hazardous landfill assuming all MSW and C&I recovery by 'Non-specialist incineration'	0.003	0.003	0.003	0.003	0.004	0.004	0.005	0.005	0.006	0.006	0.007	0.007	0.007	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
SCENARIO 2 - Assumes all recovery is by 'MBT' (based on total recovery capacity)																					
Total MSW and C&I residue sent to hazardous landfill	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SCENARIO 3 - Assumes all recovery is by 'RDF' (based on total recovery capacity)																					
Total MSW and C&I residue sent to hazardous landfill	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SCENARIO 4 - Assumes all recovery is by 'treatment' (based on total recovery capacity)																					
Total MSW and C&I residue sent to hazardous landfill	0.004	0.005	0.005	0.006	0.006	0.007	0.008	0.009	0.010	0.011	0.012	0.012	0.012	0.013	0.013	0.014	0.014	0.013	0.013	0.013	0.013

NOTE: This element of the model is redundant. There is currently no hazardous waste capacity figures to generate a chart of managed waste versus available capacity.

DATA_15: TOTAL HAZARDOUS WASTE RESIDUE FROM RECOVERY AND RECYCLING SENT TO HAZARDOUS LANDFILL (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Total hazardous waste recycling and recovery residue sent to hazardous landfill	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

East Sussex

CHART_06

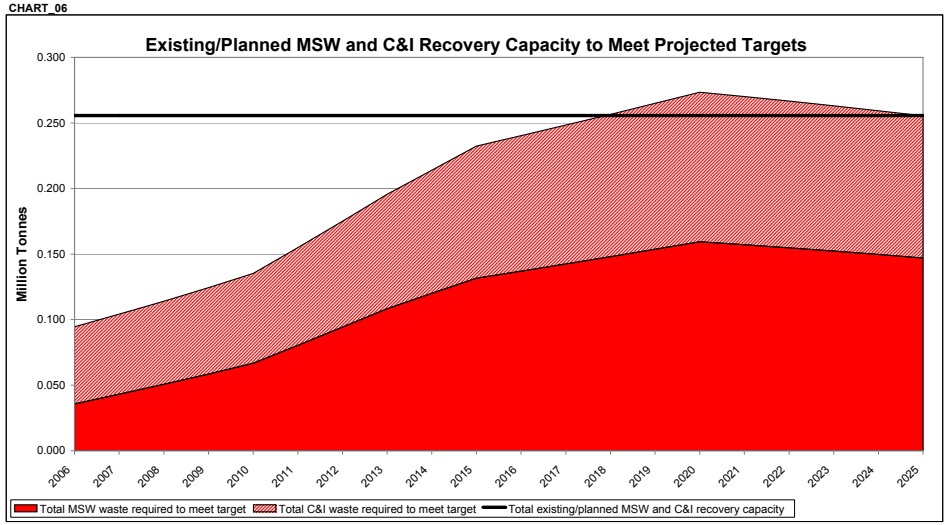


CHART_07

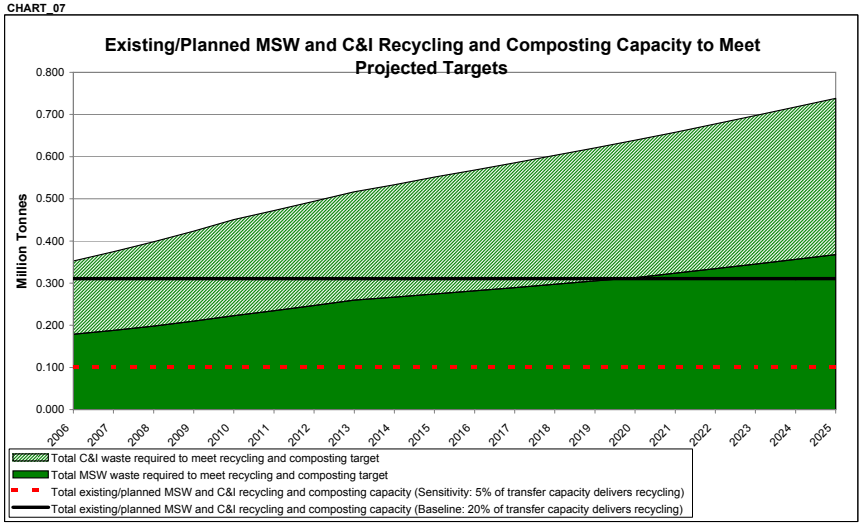
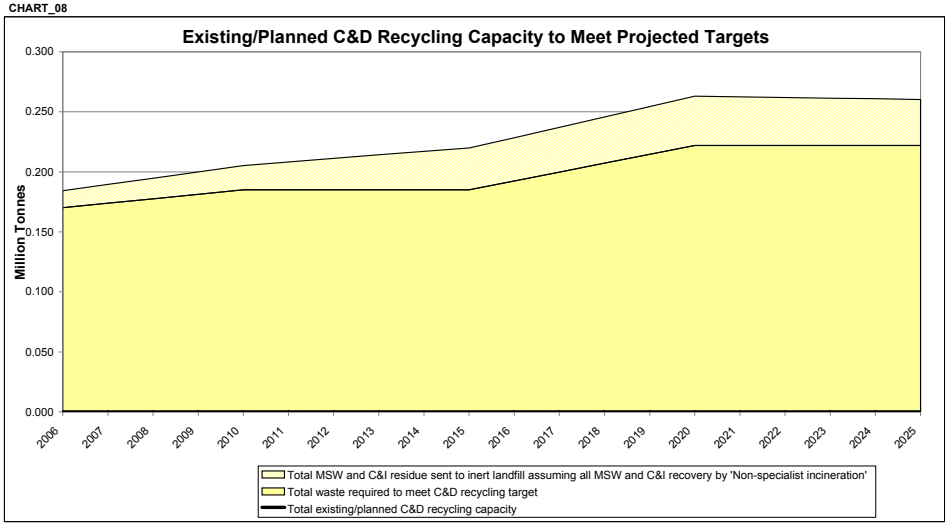


CHART_08



East Sussex

CHART_09

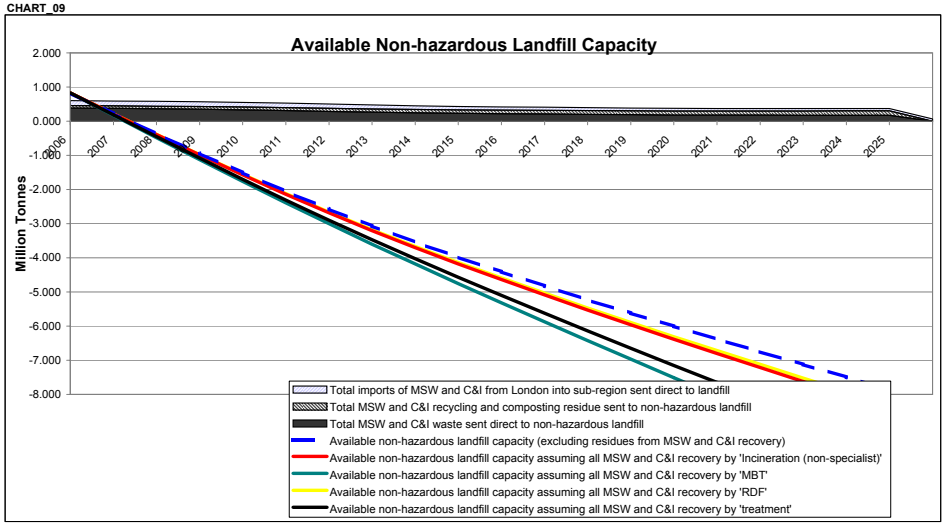
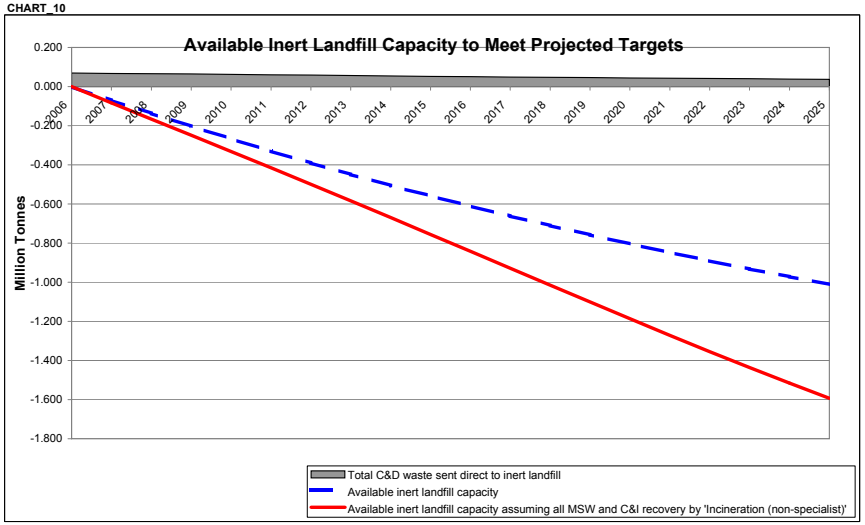


CHART_10



NOTE: The graph assumes that the baseline capacity for non-hazardous landfill has accounted for C&D reuse as a landfill engineering material.

Hampshire

SUMMARY DATA AND RESULTS FOR HAMPSHIRE

MANAGED WASTE USED TO GENERATE RESULTS (Million Tonnes)	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	0.958	0.982	1.007	1.032	1.058	1.079	1.101	1.123	1.145	1.168	1.185	1.203	1.221	1.240	1.258	1.277	1.296	1.316	1.335	1.355
msw - imports from london that are sent direct to non-hazardous landfill	0.053	0.051	0.050	0.049	0.047	0.045	0.042	0.039	0.037	0.034	0.033	0.031	0.030	0.028	0.027	0.027	0.026	0.025	0.025	0.024
c&i	1.658	1.699	1.742	1.785	1.830	1.866	1.904	1.942	1.981	2.020	2.050	2.081	2.112	2.144	2.176	2.198	2.220	2.242	2.265	2.287
c&i - imports from london that are sent direct to non-hazardous landfill	0.091	0.089	0.087	0.084	0.082	0.077	0.073	0.068	0.064	0.059	0.057	0.054	0.052	0.049	0.047	0.046	0.045	0.043	0.042	0.041
c&d	2.148	2.148	2.148	2.148	2.148	2.148	2.148	2.148	2.148	2.148	2.148	2.148	2.148	2.148	2.148	2.148	2.148	2.148	2.148	2.148
hazardous	0.173	0.177	0.181	0.186	0.191	0.194	0.198	0.202	0.206	0.210	0.214	0.217	0.220	0.223	0.227	0.229	0.231	0.234	0.236	0.238

WASTE STREAM TONNAGES TO MEET TARGETS (Million Tonnes)		2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	LATS shortfall (how much extra is landfilled above LATS target)	*0.039*	*0.042*	*0.049*	*0.060*	*0.075*	*0.080*	*0.083*	*0.086*	*0.064*	*0.042*	*0.038*	*0.034*	*0.030*	*0.025*	*0.020*	*0.020*	*0.020*	*0.021*	*0.021*	*0.022*
	Recycling and composting target	0.340	0.368	0.401	0.439	0.481	0.513	0.545	0.577	0.594	0.612	0.630	0.649	0.667	0.686	0.705	0.729	0.753	0.778	0.803	0.829
	Recovery target	0.068	0.084	0.103	0.122	0.144	0.176	0.208	0.241	0.267	0.294	0.307	0.319	0.332	0.345	0.359	0.354	0.349	0.343	0.337	0.331
	Non-hazardous landfill	0.551	0.530	0.503	0.471	0.433	0.391	0.348	0.305	0.284	0.262	0.249	0.235	0.222	0.208	0.194	0.195	0.195	0.195	0.195	0.195
c&i	Recycling and composting target	0.696	0.748	0.801	0.857	0.915	0.952	0.990	1.029	1.069	1.111	1.148	1.186	1.225	1.265	1.306	1.341	1.376	1.413	1.449	1.487
	Recovery target	0.235	0.245	0.254	0.264	0.274	0.299	0.324	0.350	0.376	0.404	0.414	0.425	0.435	0.446	0.457	0.453	0.448	0.444	0.439	0.435
	Non-hazardous landfill	0.726	0.707	0.686	0.664	0.640	0.616	0.590	0.563	0.535	0.505	0.488	0.470	0.452	0.433	0.413	0.404	0.395	0.386	0.376	0.366
c&d	Recycling target	0.988	1.010	1.031	1.053	1.074	1.074	1.074	1.074	1.074	1.074	1.117	1.160	1.203	1.246	1.289	1.289	1.289	1.289	1.289	1.289
	Recovery target	0.760	0.748	0.735	0.722	0.709	0.722	0.735	0.748	0.760	0.773	0.739	0.705	0.670	0.636	0.601	0.610	0.619	0.627	0.636	0.644
	Inert landfill	0.400	0.391	0.382	0.374	0.365	0.352	0.339	0.327	0.314	0.301	0.292	0.284	0.275	0.266	0.258	0.249	0.241	0.232	0.223	0.215
hazardous	Hazardous waste	0.173	0.177	0.181	0.186	0.191	0.194	0.198	0.202	0.206	0.210	0.214	0.217	0.220	0.223	0.227	0.229	0.231	0.234	0.236	0.238

Note: If there is a LATS shortfall, denoted by a positive number, (ie insufficient allowance to landfill non-diverted waste) then the model assumes that this extra waste is recycled/composted and recovered at the same ratio as the regional targets for recycling/composting and recovery for that year.

EXISTING/PLANNED CAPACITY FOR RECYCLING, RECOVERY AND LANDFILLING AND TOTAL WASTE TONNAGES TO EACH DISPOSAL ROUTE (Million Tonnes)	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
MSW and C&I recovery																				
Total existing/planned MSW and C&I recovery capacity	1.390	1.390	1.390	1.390	1.390	1.390	1.390	1.390	1.390	1.390	1.390	1.390	1.390	1.390	1.390	1.390	1.390	1.390	1.390	1.390
Surplus/deficit capacity	1.087	1.061	1.033	1.003	0.971	0.915	0.858	0.800	0.746	0.692	0.669	0.646	0.622	0.598	0.574	0.583	0.593	0.603	0.613	0.624
MSW and C&I recycling and composting																				
Total existing/planned MSW and C&I recycling and composting capacity (Baseline: 20% of transfer capacity delivers recycling)	3.107	3.107	3.107	3.107	3.107	3.107	3.107	3.107	3.107	3.107	3.107	3.107	3.107	3.107	3.107	3.107	3.107	3.107	3.107	3.107
Total existing/planned MSW and C&I recycling and composting capacity (Sensitivity: 5% of transfer capacity delivers recycling)	2.768	2.768	2.768	2.768	2.768	2.768	2.768	2.768	2.768	2.768	2.768	2.768	2.768	2.768	2.768	2.768	2.768	2.768	2.768	2.768
Surplus/deficit capacity (Baseline: 20% of transfer capacity delivers recycling)	2.072	1.992	1.905	1.812	1.712	1.643	1.573	1.501	1.444	1.384	1.329	1.273	1.215	1.156	1.097	1.038	0.978	0.917	0.855	0.792
Surplus/deficit capacity (Sensitivity: 5% of transfer capacity delivers recycling)	1.733	1.653	1.566	1.473	1.373	1.304	1.234	1.163	1.105	1.045	0.990	0.934	0.876	0.818	0.758	0.699	0.639	0.578	0.516	0.453
C&D recycling																				
Total existing/planned C&D recycling capacity	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072
Surplus/deficit capacity	-0.916	-0.938	-0.959	-0.981	-1.002	-1.002	-1.002	-1.002	-1.002	-1.002	-1.045	-1.088	-1.131	-1.174	-1.217	-1.217	-1.217	-1.217	-1.217	-1.217
C&D recovery																				
REGIONAL total existing/planned C&D recovery capacity	1.794	1.710	1.627	1.544	1.460	1.439	1.418	1.398	1.377	1.356	1.325	1.293	1.262	1.231	1.199	1.220	1.241	1.262	1.283	1.304
Surplus/deficit capacity	1.033	0.963	0.892	0.822	0.751	0.717	0.684	0.650	0.616	0.583	0.586	0.589	0.592	0.595	0.598	0.610	0.622	0.635	0.647	0.659
Hazardous waste recycling																				
Total existing/planned hazardous waste recycling capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Surplus/deficit capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hazardous waste recovery																				
Total existing/planned hazardous waste recovery capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Surplus/deficit capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Non-hazardous landfill																				
Available non-hazardous landfill capacity (excluding residues from MSW and C&I recovery)	1.532	-0.143	-1.788	-3.398	-4.965	-6.484	-7.940	-9.331	-10.655	-11.930	-13.156	-14.361	-15.543	-16.703	-17.839	-18.951	-20.062	-21.171	-22.278	-23.383
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'Incineration (non-specialist)'	1.490	-0.231	-1.925	-3.588	-5.213	-6.795	-8.322	-9.792	-11.205	-12.577	-13.908	-15.220	-16.514	-17.789	-19.044	-20.279	-21.511	-22.739	-23.964	-25.185
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'MBT'	1.367	-0.487	-2.326	-4.146	-5.941	-7.708	-9.443	-11.147	-12.820	-14.475	-16.113	-17.743	-19.364	-20.976	-22.580	-24.173	-25.760	-27.339	-28.910	-30.473
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'RDF'	1.499	-0.213	-1.898	-3.550	-5.164	-6.733	-8.246	-9.700	-11.095	-12.448	-13.758	-15.048	-16.320	-17.572	-18.803	-20.013	-21.221	-22.425	-23.627	-24.825
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'treatment'	1.407	-0.405	-2.199	-3.968	-5.710	-7.417	-9.086	-10.716	-12.306	-13.871	-15.411	-16.940	-18.457	-19.962	-21.455	-22.934	-24.408	-25.875	-27.336	-28.791
Inert landfill																				
Available inert landfill capacity	1.735	1.335	0.944	0.562	0.188	-0.177	-0.529	-0.869	-1.195	-1.509	-1.810	-2.102	-2.385	-2.660	-2.927	-3.184	-3.434	-3.674	-3.906	-4.130
Available inert landfill capacity assuming all MSW and C&I recovery by 'Incineration (non-specialist)'	1.735	1.290	0.849	0.413	-0.018	-0.446	-0.870	-1.289	-1.704	-2.114	-2.520	-2.920	-3.315	-3.705	-4.090	-4.470	-4.840	-5.201	-5.551	-5.890
Hazardous landfill																				
Available hazardous landfill capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Note: The model does not contain data for the management of hazardous waste.

DATA_01: ARISINGS AND GROWTH RATES OF MSW, C&I AND HAZARDOUS WASTE (Million Tonnes)		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	Arisings of MSW in baseline year																					
	(1) Forecast regional level growth rate of MSW - per year (%)	3.0%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%
	(1) Forecast regional level growth rate of MSW - cumulative (%)	106%	109%	111%	114%	117%	120%	122%	125%	127%	130%	133%	135%	137%	139%	141%	143%	145%	147%	149%	152%	154%
	Total arisings of MSW using regional growth forecasts	0.935	0.958	0.982	1.007	1.032	1.058	1.079	1.101	1.123	1.145	1.168	1.185	1.203	1.221	1.240	1.258	1.277	1.296	1.316	1.335	1.355
	(1) Forecast sub-regional growth rate of MSW - per year (%)	3.0%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%
	(1) Forecast sub-regional level growth rate of MSW - cumulative (%)	106%	109%	111%	114%	117%	120%	122%	125%	127%	130%	133%	135%	137%	139%	141%	143%	145%	147%	149%	152%	154%
	Total arisings of MSW using sub-regional growth forecasts	0.935	0.958	0.982	1.007	1.032	1.058	1.079	1.101	1.123	1.145	1.168	1.185	1.203	1.221	1.240	1.258	1.277	1.296	1.316	1.335	1.355
c&i	Arisings of C&I in baseline year																					
	(1) Forecast regional level growth rate of C&I - per year (%)	3.3%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.0%	1.0%	1.0%	1.0%	1.0%
	(1) Forecast regional level growth rate of C&I - cumulative (%)	110%	113%	116%	119%	122%	125%	127%	130%	132%	135%	138%	140%	142%	144%	146%	148%	150%	151%	153%	154%	156%
	Total arisings of C&I using regional growth forecasts	1.617	1.658	1.699	1.742	1.785	1.830	1.866	1.904	1.942	1.981	2.020	2.050	2.081	2.112	2.144	2.176	2.198	2.220	2.242	2.265	2.287
	(1) Forecast sub-regional level growth rate of C&I - per year (%)	3.3%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.0%	1.0%	1.0%	1.0%	1.0%
	(1) Forecast sub-regional level growth rate of C&I - cumulative (%)	110%	113%	116%	119%	122%	125%	127%	130%	132%	135%	138%	140%	142%	144%	146%	148%	150%	151%	153%	154%	156%
	Total arisings of C&I using sub-regional growth forecasts	1.617	1.658	1.699	1.742	1.785	1.830	1.866	1.904	1.942	1.981	2.020	2.050	2.081	2.112	2.144	2.176	2.198	2.220	2.242	2.265	2.287
hazardous	Arisings of hazardous waste in baseline year																					
	(2) Forecast regional level growth rate of hazardous waste - per year (%)	3.3%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.0%	1.0%	1.0%	1.0%	1.0%
	Forecast regional level growth rate of hazardous waste - cumulative (%)	107%	109%	112%	115%	118%	121%	123%	126%	128%	131%	133%	135%	137%	139%	141%	144%	145%	146%	148%	149%	151%
	Total arisings of hazardous waste	0.168	0.173	0.177	0.181	0.186	0.191	0.194	0.198	0.202	0.206	0.210	0.214	0.217	0.220	0.223	0.227	0.229	0.231	0.234	0.236	0.238
	(2) Forecast sub-regional level growth rate of hazardous waste - per year (%)	3.3%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.0%	1.0%	1.0%	1.0%	1.0%
	Forecast sub regional level growth rate of hazardous waste - cumulative (%)	107%	109%	112%	115%	118%	121%	123%	126%	128%	131%	133%	135%	137%	139%	141%	144%	145%	146%	148%	149%	151%
	Total arisings of hazardous waste	0.168	0.173	0.177	0.181	0.186	0.191	0.194	0.198	0.202	0.206	0.210	0.214	0.217	0.220	0.223	0.227	0.229	0.231	0.234	0.236	0.238
c&d	Total managed C&D in baseline year																					
	(3) Forecast regional-level growth rate of managed C&D - per year (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Forecast regional-level growth rate of managed C&D - cumulative (%)	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
	(3) Total managed of C&D for the sub-region	2.148	2.148	2.148	2.148	2.148	2.148	2.148	2.148	2.148	2.148	2.148	2.148	2.148	2.148	2.148	2.148	2.148	2.148	2.148	2.148	2.148

(1) Figures from SEERA updated waste capacity model by ERM in 2005.
(2) Baseline year of hazardous waste arisings is 2003 from EA Hazardous Waste Interrogator. www.environment-agency.gov.uk/apps/wastesurvey2/. ERM has assumed that growth in hazardous waste is equal to C&I waste.
(3) These data represent managed C&D waste in the sub-region, including all intra-regional and inter-regional movements. Growth is assumed to be zero from the orginal MEL study and updated modeted by ERM in 2005.
NOTE: C&D waste is not included in arisings because this was taken from survey data by Symonds 2001 which gave values for managed C&D waste.

Hampshire

Figure in blue represent data supplied by each sub-region for the new '2006 SEERA Capacity and Need Model'
Figures in orange represent managed waste that are used by the model to calculate results. These can be adjusted for different scenarios.

DATA_02: INTER REGIONAL MOVEMENTS OF MSW and C&I (Million Tonnes)		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw and c&i	Regional level imports of MSW and C&I waste into the SE region from London	1.76	1.716	1.672	1.628	1.584	1.54	1.454	1.368	1.282	1.196	1.11	1.064	1.018	0.972	0.926	0.88	0.86	0.84	0.82	0.8	0.78
	Proportion of regional MSW and C&I imports that go to the sub-region (%)	8.4%	8.4%	8.4%	8.4%	8.4%	8.4%	8.4%	8.4%	8.4%	8.4%	8.4%	8.4%	8.4%	8.4%	8.4%	8.4%	8.4%	8.4%	8.4%	8.4%	8.4%
(1)	Total imports of MSW and C&I from London into sub-region sent direct to landfill	0.148	0.144	0.140	0.137	0.133	0.129	0.122	0.115	0.108	0.100	0.093	0.089	0.086	0.082	0.078	0.074	0.072	0.071	0.069	0.067	0.066
msw	Proportion of total MSW and C&I imports that are MSW (%) - REGIONAL GROWTH FORECAST	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%
	Total imports of MSW into the sub-region from London - REGIONAL GROWTH FORECAST	0.054	0.053	0.051	0.050	0.049	0.047	0.045	0.042	0.039	0.037	0.034	0.033	0.031	0.030	0.028	0.027	0.027	0.026	0.025	0.025	0.024
	Proportion of total MSW and C&I imports that are MSW (%) - SUB-REGIONAL GROWTH FORECAST	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%
	Total imports of MSW into the sub-region from London - SUB-REGIONAL GROWTH FORECAST	0.054	0.053	0.051	0.050	0.049	0.047	0.045	0.042	0.039	0.037	0.034	0.033	0.031	0.030	0.028	0.027	0.027	0.026	0.025	0.025	0.024
c&i	Proportion of total MSW and C&I imports that are C&I (%) - REGIONAL GROWTH FORECAST	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%
	Total imports of C&I into the sub-region from London - REGIONAL GROWTH FORECAST	0.094	0.091	0.089	0.087	0.084	0.082	0.077	0.073	0.068	0.064	0.059	0.057	0.054	0.052	0.049	0.047	0.046	0.045	0.043	0.042	0.041
	Proportion of total MSW and C&I imports that are C&I (%) - SUB-REGIONAL GROWTH FORECAST	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%
	Total imports of C&I into the sub-region from London - SUB-REGIONAL GROWTH FORECAST	0.094	0.091	0.089	0.087	0.084	0.082	0.077	0.073	0.068	0.064	0.059	0.057	0.054	0.052	0.049	0.047	0.046	0.045	0.043	0.042	0.041

(1) Intra-regional and inter-regional movements have been excluded for MSW and C&I waste due to self-sufficiency requirements under PPS10, except for inter-regional movements from London into the sub-region. Apportionment from Policy W3 in the Plan – downloa
Note: Only a figure is available for total combined imports of MSW and C&I waste. ERM has assumed that imports of the seperate waste streams of MSW and C&I was split according to tonnage arisings of MSW and C&I in the sub-region.

DATA_03: MANAGED WASTE USED TO GENERATE RESULTS (Million Tonnes)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	0.935	0.958	0.982	1.007	1.032	1.058	1.079	1.101	1.123	1.145	1.168	1.185	1.203	1.221	1.240	1.258	1.277	1.296	1.316	1.335	1.355
msw - imports from london that are sent direct to non-hazardous landfill	0.054	0.053	0.051	0.050	0.049	0.047	0.045	0.042	0.039	0.037	0.034	0.033	0.031	0.030	0.028	0.027	0.027	0.026	0.025	0.025	0.024
c&i	1.617	1.658	1.699	1.742	1.785	1.830	1.866	1.904	1.942	1.981	2.020	2.050	2.081	2.112	2.144	2.176	2.198	2.220	2.242	2.265	2.287
c&I - imports from london that are sent direct to non-hazardous landfill	0.094	0.091	0.089	0.087	0.084	0.082	0.077	0.073	0.068	0.064	0.059	0.057	0.054	0.052	0.049	0.047	0.046	0.045	0.043	0.042	0.041
c&d	2.148	2.148	2.148	2.148	2.148	2.148	2.148	2.148	2.148	2.148	2.148	2.148	2.148	2.148	2.148	2.148	2.148	2.148	2.148	2.148	2.148
hazardous	0.168	0.173	0.177	0.181	0.186	0.191	0.194	0.198	0.202	0.206	0.210	0.214	0.217	0.220	0.223	0.227	0.229	0.231	0.234	0.236	0.238

DATA_04: TARGETS (% or Million Tonnes)		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	(1) landfill (Mt)	0.372	0.362	0.347	0.326	0.301	0.270	0.240	0.210	0.180	0.172	0.165	0.157	0.149	0.141	0.134	0.126	0.126	0.126	0.126	0.126	0.126
	recovered (%)	5	6.4	7.8	9.2	10.6	12	14.4	16.8	19.2	21.6	24	24.8	25.6	26.4	27.2	28	27.2	26.4	25.6	24.8	24
	recycled and composted (%)	30	32.0	34.0	36.0	38.0	40	42.0	44.0	46.0	48.0	50	51.0	52.0	53.0	54.0	55	56.0	57.0	58.0	59.0	60
c&i	recovered (%)	14	14.2	14.4	14.6	14.8	15	16.0	17.0	18.0	19.0	20	20.2	20.4	20.6	20.8	21	20.6	20.2	19.8	19.4	19
	recycled and composted (%)	40	42.0	44.0	46.0	48.0	50	51.0	52.0	53.0	54.0	55	56.0	57.0	58.0	59.0	60	61.0	62.0	63.0	64.0	65
c&d	recovered (%)	36	35.4	34.8	34.2	33.6	33	33.6	34.2	34.8	35.4	36	34.4	32.8	31.2	29.6	28	28.4	28.8	29.2	29.6	30
	recycled (%)	45	46.0	47.0	48.0	49.0	50	50.0	50.0	50.0	50.0	50	52.0	54.0	56.0	58.0	60	60.0	60.0	60.0	60.0	60
hazardous	landfill (%)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	recovered (%)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	recycled (%)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

(1) ERM has assumed that the LATS target allowance remains constant at the 2020 value for the years beyond 2020

DATA_05: WASTE STREAM TONNAGES TO MEET TARGETS (Million Tonnes)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025

This first section of DATA_03 calculates if there is a LATS shortfall or suplus in each year. If there is a LATS shortfall (ie insufficient allowance to landfill non-diverted waste) then the model assumes that this extra waste is recycled/composted and r

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	Total MSW to be recovered and recycled/composted to meet target	0.327	0.368	0.411	0.455	0.502	0.550	0.609	0.669	0.732	0.797	0.864	0.899	0.934	0.970	1.007	1.044	1.063	1.081	1.100	1.119	1.139
	Total MSW not-diverted by targets	0.608	0.590	0.572	0.552	0.530	0.508	0.470	0.431	0.391	0.348	0.304	0.287	0.270	0.252	0.233	0.214	0.215	0.215	0.216	0.216	0.217
	Percentage of MSW that is biodegradable (% by weight)	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68
	Total BMW not-diverted by targets	0.413	0.401	0.389	0.375	0.361	0.345	0.320	0.293	0.266	0.237	0.206	0.195	0.183	0.171	0.158	0.145	0.146	0.146	0.147	0.147	0.147
	LATS shortfall (how much extra is landfilled above LATS target)	0.041	0.039	0.042	0.049	0.060	0.075	0.080	0.083	0.086	0.064	0.042	0.038	0.034	0.030	0.025	0.020	0.020	0.020	0.021	0.021	0.022
	Ratio of 'recovered' to 'recycled/composted' for target (%)	14%	17%	19%	20%	22%	23%	26%	28%	29%	31%	32%	33%	33%	33%	33%	34%	33%	32%	31%	30%	29%
	Extra MSW 'recovery' needed due to LATS shortfall	*0.006*	*0.007*	*0.008*	*0.010*	*0.013*	*0.017*	*0.020*	*0.023*	*0.025*	*0.020*	*0.014*	*0.013*	*0.011*	*0.010*	*0.008*	*0.007*	*0.007*	*0.006*	*0.006*	*0.006*	*0.006*
	Extra MSW 'recycling/composting' needed due to LATS shortfall	*0.035*	*0.033*	*0.034*	*0.039*	*0.047*	*0.058*	*0.059*	*0.060*	*0.060*	*0.044*	*0.028*	*0.026*	*0.023*	*0.020*	*0.017*	*0.013*	*0.013*	*0.014*	*0.014*	*0.015*	*0.015*

The section below in DATA_03 shows the tonnages by waste to meet targets.

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	Recycling and composting target	0.316	0.340	0.368	0.401	0.439	0.481	0.513	0.545	0.577	0.594	0.612	0.630	0.649	0.667	0.686	0.705	0.729	0.753	0.778	0.803	0.829
	Recovery target	0.053	0.068	0.084	0.103	0.122	0.144	0.176	0.208	0.241	0.267	0.294	0.307	0.319	0.332	0.345	0.359	0.354	0.349	0.343	0.337	0.331
	Non-hazardous landfill	0.567	0.551	0.530	0.503	0.471	0.433	0.391	0.348	0.305	0.284	0.262	0.249	0.235	0.222	0.208	0.194	0.195	0.195	0.195	0.195	0.195
	CHECK COUNTER (should be zero)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
c&i	Recycling and composting target	0.647	0.696	0.748	0.801	0.857	0.915	0.952	0.990	1.029	1.069	1.111	1.148	1.186	1.225	1.265	1.306	1.341	1.376	1.413	1.449	1.487
	Recovery target	0.226	0.235	0.245	0.254	0.264	0.274	0.299	0.324	0.350	0.376	0.404	0.414	0.425	0.435	0.446	0.457	0.453	0.448	0.444	0.439	0.435
	Non-hazardous landfill	0.744	0.726	0.707	0.686	0.664	0.640	0.616	0.590	0.563	0.535	0.505	0.488	0.470	0.452	0.433	0.413	0.404	0.395	0.386	0.376	0.366
	CHECK COUNTER (should be zero)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

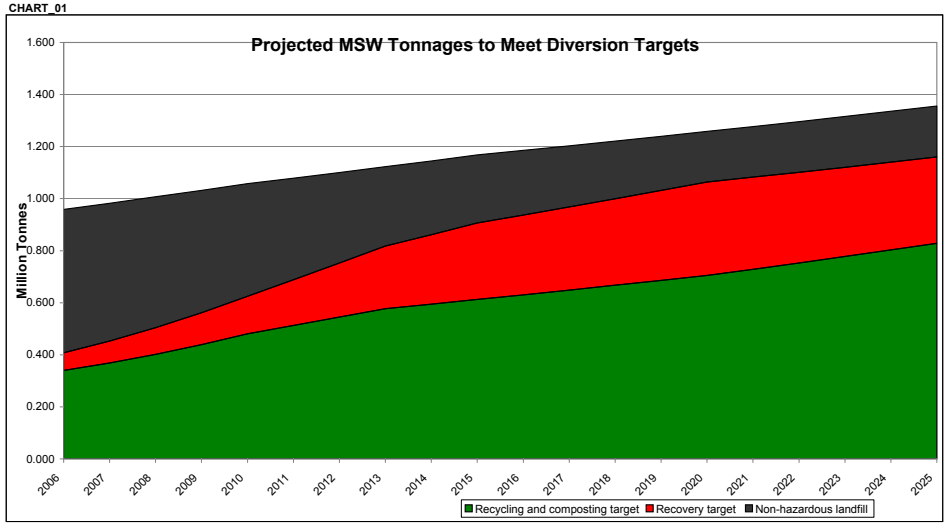
		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
c&d	Recycling target	0.967	0.988	1.010	1.031	1.053	1.074	1.074	1.074	1.074	1.074	1.074	1.117	1.160	1.203	1.246	1.289	1.289	1.289	1.289	1.289	1.289
	Recovery target	0.773	0.760	0.748	0.735	0.722	0.709	0.722	0.735	0.748	0.760	0.773	0.739	0.705	0.670	0.636	0.601	0.610	0.619	0.627	0.636	0.644
	Inert landfill	0.408	0.400	0.391	0.382	0.374	0.365	0.352	0.339	0.327	0.314	0.301	0.292	0.284	0.275	0.266	0.258	0.249	0.241	0.232	0.223	0.215
	CHECK COUNTER (should be zero)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
hazardous	Hazardous waste	0.168	0.173	0.177	0.181	0.186	0.191	0.194	0.198	0.202	0.206	0.210	0.214	0.217	0.220	0.223	0.227	0.229	0.231	0.234	0.236	0.238

DATA_06: TOTAL WASTE TONNAGES TO MEET TARGETS (Million Tonnes)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
MSW and C&I recycling and composting target	0.963	1.036	1.116	1.203	1.296	1.396	1.464	1.534	1.606	1.664	1.723	1.779	1.835	1.892	1.951	2.011	2.069	2.129	2.190	2.252	2.315
C&D recycling target	0.967	0.988	1.010	1.031	1.053	1.074	1.074	1.074	1.074	1.074	1.074	1.117	1.160	1.203	1.246	1.289	1.289	1.289	1.289	1.289	1.289
MSW and C&I recovery target	0.279	0.303	0.329	0.357	0.387	0.419	0.474	0.532	0.590	0.644	0.698	0.721	0.744	0.767	0.791	0.816	0.807	0.797	0.787	0.777	0.766
C&D recovery target	0.773	0.760	0.748	0.735	0.722	0.709	0.722	0.735	0.748	0.760	0.773	0.739	0.705	0.670	0.636	0.601	0.610	0.619	0.627	0.636	0.644
Non-hazardous landfill	1.311	1.277	1.236	1.189	1.135	1.073	1.007	0.938	0.868	0.818	0.767	0.737	0.706	0.674	0.641	0.608	0.599	0.590	0.581	0.571	0.561
Inert landfill	0.408	0.400	0.391	0.382	0.374	0.365	0.352	0.339	0.327	0.314	0.301	0.292	0.284	0.275	0.266	0.258	0.249	0.241	0.232	0.223	0.215
Hazardous waste	0.168	0.173	0.177	0.181	0.186	0.191	0.194	0.198	0.202	0.206	0.210	0.214	0.217	0.220	0.223	0.227	0.229	0.231	0.234	0.236	0.238

Hampshire

CHART_01



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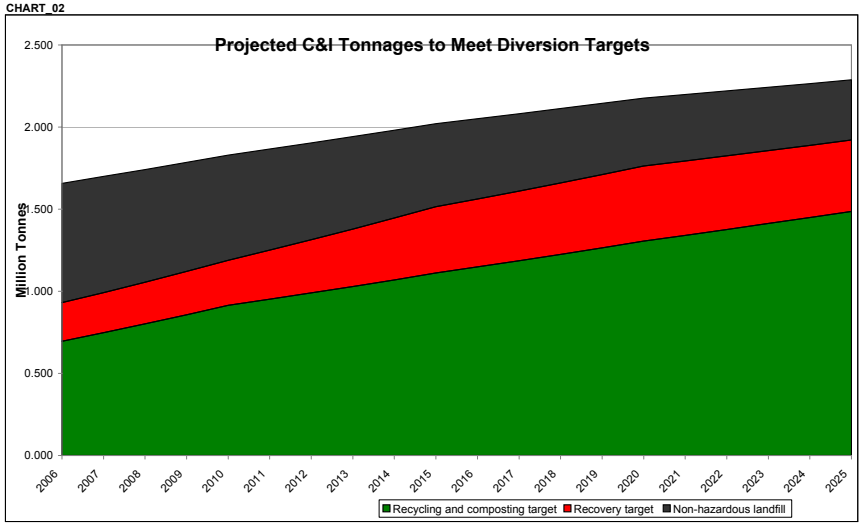

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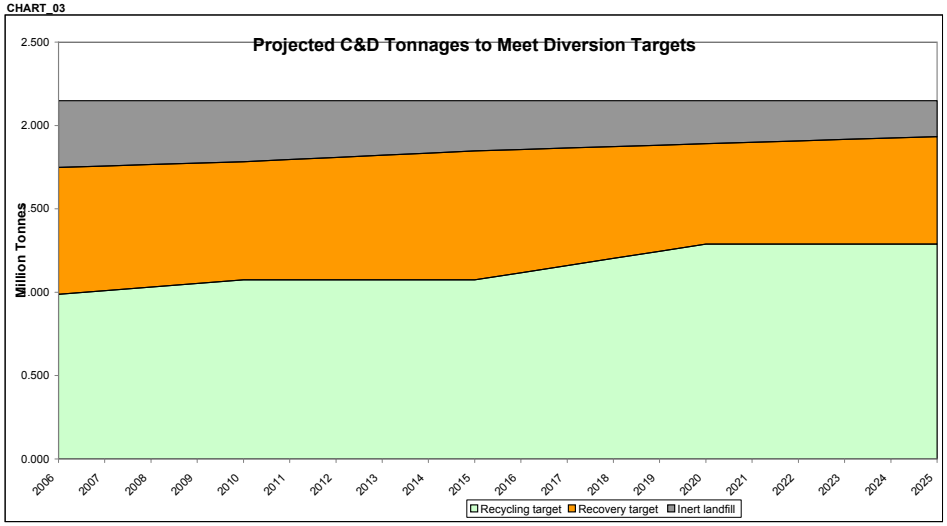

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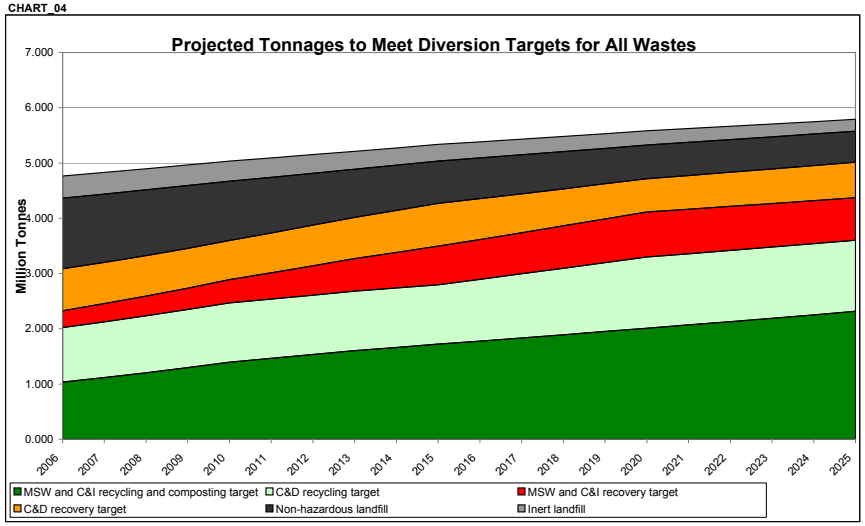
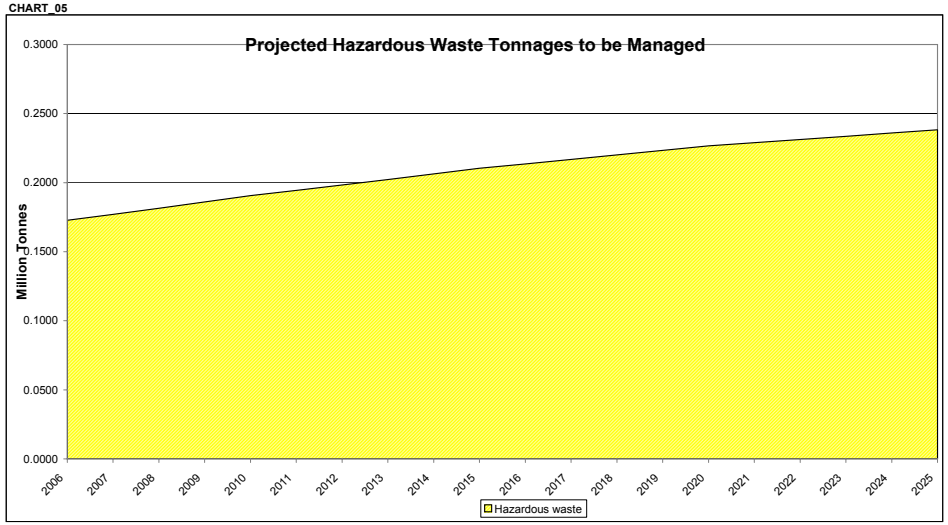


Hampshire

CHART_05



DATA_07: EXISTING/PLANNED CAPACITY FOR RECYCLING, RECOVERY AND LANDFILLING AND TOTAL WASTE TONNAGES TO EACH DISPOSAL ROUTE (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
MSW and C&I recovery																					
MSW and C&I incineration (non-specialist)	0.481	0.481	0.481	0.481	0.481	0.481	0.481	0.481	0.481	0.481	0.481	0.481	0.481	0.481	0.481	0.481	0.481	0.481	0.481	0.481	0.481
MSW and C&I treatment	0.908	0.908	0.908	0.908	0.908	0.908	0.908	0.908	0.908	0.908	0.908	0.908	0.908	0.908	0.908	0.908	0.908	0.908	0.908	0.908	0.908
Total existing/planned MSW and C&I recovery capacity	1.390	1.390	1.390	1.390	1.390	1.390	1.390	1.390	1.390	1.390	1.390	1.390	1.390	1.390	1.390	1.390	1.390	1.390	1.390	1.390	1.390
Total MSW waste required to meet target	0.053	0.068	0.084	0.103	0.122	0.144	0.176	0.208	0.241	0.267	0.294	0.307	0.319	0.332	0.345	0.359	0.354	0.349	0.343	0.337	0.331
Total C&I waste required to meet target	0.226	0.235	0.245	0.254	0.264	0.274	0.299	0.324	0.350	0.376	0.404	0.414	0.425	0.435	0.446	0.457	0.453	0.448	0.444	0.439	0.435
Surplus/deficit capacity	1.111	1.087	1.061	1.033	1.003	0.971	0.915	0.858	0.800	0.746	0.692	0.669	0.646	0.622	0.598	0.574	0.583	0.593	0.603	0.613	0.624
MSW and C&I recycling and composting																					
MSW and C&I recycling	2.516	2.516	2.516	2.516	2.516	2.516	2.516	2.516	2.516	2.516	2.516	2.516	2.516	2.516	2.516	2.516	2.516	2.516	2.516	2.516	2.516
MSW and C&I transfer	2.260	2.260	2.260	2.260	2.260	2.260	2.260	2.260	2.260	2.260	2.260	2.260	2.260	2.260	2.260	2.260	2.260	2.260	2.260	2.260	2.260
Total existing/planned MSW and C&I composting capacity	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140
(1) Total existing/planned MSW and C&I recycling and composting capacity (Baseline: 20% of transfer capacity delivers recycling)	3.107	3.107	3.107	3.107	3.107	3.107	3.107	3.107	3.107	3.107	3.107	3.107	3.107	3.107	3.107	3.107	3.107	3.107	3.107	3.107	3.107
(2) Total existing/planned MSW and C&I recycling and composting capacity (Sensitivity: 5% of transfer capacity delivers recycling)	2.768	2.768	2.768	2.768	2.768	2.768	2.768	2.768	2.768	2.768	2.768	2.768	2.768	2.768	2.768	2.768	2.768	2.768	2.768	2.768	2.768
Total MSW waste required to meet recycling and composting target	0.316	0.340	0.368	0.401	0.439	0.481	0.513	0.545	0.577	0.594	0.612	0.630	0.649	0.667	0.686	0.705	0.729	0.753	0.778	0.803	0.829
Total C&I waste required to meet recycling and composting target	0.647	0.696	0.748	0.801	0.857	0.915	0.952	0.990	1.029	1.069	1.111	1.148	1.186	1.225	1.265	1.306	1.341	1.376	1.413	1.449	1.487
Surplus/deficit capacity (Baseline: 20% of transfer capacity delivers recycling)	2.145	2.072	1.992	1.905	1.812	1.712	1.643	1.573	1.501	1.444	1.384	1.329	1.273	1.215	1.156	1.097	1.038	0.978	0.917	0.855	0.792
Surplus/deficit capacity (Sensitivity: 5% of transfer capacity delivers recycling)	1.806	1.733	1.653	1.566	1.473	1.373	1.304	1.234	1.163	1.105	1.045	0.990	0.934	0.876	0.818	0.758	0.699	0.639	0.578	0.516	0.453
C&D recycling																					
(3) Total existing/planned C&D recycling capacity	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072	0.072
Total waste required to meet C&D recycling target	0.967	0.988	1.010	1.031	1.053	1.074	1.074	1.074	1.074	1.074	1.074	1.117	1.160	1.203	1.246	1.289	1.289	1.289	1.289	1.289	1.289
Surplus/deficit capacity	-0.895	-0.916	-0.938	-0.959	-0.981	-1.002	-1.002	-1.002	-1.002	-1.002	-1.002	-1.045	-1.088	-1.131	-1.174	-1.217	-1.217	-1.217	-1.217	-1.217	-1.217
C&D recovery																					
REGIONAL total existing/planned C&D recovery capacity	1.877	1.794	1.710	1.627	1.544	1.460	1.439	1.418	1.398	1.377	1.356	1.325	1.293	1.262	1.231	1.199	1.220	1.241	1.262	1.283	1.304
Sub-regional total waste required to meet C&D recovery target	0.773	0.760	0.748	0.735	0.722	0.709	0.722	0.735	0.748	0.760	0.773	0.739	0.705	0.670	0.636	0.601	0.610	0.619	0.627	0.636	0.644
Surplus/deficit capacity	1.104	1.033	0.963	0.892	0.822	0.751	0.717	0.684	0.650	0.616	0.583	0.586	0.589	0.592	0.595	0.598	0.610	0.622	0.635	0.647	0.659
Hazardous waste recycling																					
Total existing/planned hazardous waste recycling capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total hazardous waste to be recycled	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Surplus/deficit capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hazardous waste recovery																					
Total existing/planned hazardous waste recovery capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total hazardous waste to be recovered	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Surplus/deficit capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Non-hazardous landfill																					
Available non-hazardous landfill capacity (excluding residues from MSW and C&I recovery)	3.084	1.532	-0.143	-1.788	-3.398	-4.965	-6.484	-7.940	-9.331	-10.655	-11.930	-13.156	-14.361	-15.543	-16.703	-17.839	-18.951	-20.062	-21.171	-22.278	-23.383
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'Incineration (non-specialist)'	3.084	1.490	-0.231	-1.925	-3.588	-5.213	-6.795	-8.322	-9.792	-11.205	-12.577	-13.908	-15.220	-16.514	-17.789	-19.044	-20.279	-21.511	-22.739	-23.964	-25.185
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'MBT'	3.084	1.367	-0.487	-2.326	-4.146	-5.941	-7.708	-9.443	-11.147	-12.820	-14.475	-16.113	-17.743	-19.364	-20.976	-22.580	-24.173	-25.760	-27.339	-28.910	-30.473
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'RDF'	3.084	1.499	-0.213	-1.898	-3.550	-5.164	-6.733	-8.246	-9.700	-11.095	-12.448	-13.758	-15.048	-16.320	-17.572	-18.803	-20.013	-21.221	-22.425	-23.627	-24.825
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'treatment'	3.084	1.407	-0.405	-2.199	-3.968	-5.710	-7.417	-9.086	-10.716	-12.306	-13.871	-15.411	-16.940	-18.457	-19.962	-21.455	-22.934	-24.408	-25.875	-27.336	-28.791
Total MSW and C&I waste sent direct to non-hazardous landfill	1.311	1.277	1.236	1.189	1.135	1.073	1.007	0.938	0.868	0.818	0.767	0.737	0.706	0.674	0.641	0.608	0.599	0.590	0.581	0.571	0.561
Inert landfill																					
Available inert landfill capacity	2.143	1.735	1.335	0.944	0.562	0.188	-0.177	-0.529	-0.869	-1.195	-1.509	-1.810	-2.102	-2.385	-2.660	-2.927	-3.184	-3.434	-3.674	-3.906	-4.130
Available inert landfill capacity assuming all MSW and C&I recovery by 'Incineration (non-specialist)'	2.143	1.735	1.290	0.849	0.413	-0.018	-0.446	-0.870	-1.289	-1.704	-2.114	-2.520	-2.920	-3.315	-3.705	-4.090	-4.470	-4.840	-5.201	-5.551	-5.890
Total C&D waste sent direct to inert landfill	0.408	0.400	0.391	0.382	0.374	0.365	0.352	0.339	0.327	0.314	0.301	0.292	0.284	0.275	0.266	0.258	0.249	0.241	0.232	0.223	0.215
Hazardous landfill																					
Available hazardous landfill capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total hazardous waste sent direct to hazardous landfill	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Other																					
Metal/ELV facility	0.796	0.796	0.796	0.796	0.796	0.796	0.796	0.796	0.796	0.796	0.796	0.796	0.796	0.796	0.796	0.796	0.796	0.796	0.796	0.796	0.796
Ignored	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950	0.950
Closed	0.291	0.291	0.291	0.291	0.291	0.291	0.291	0.291	0.291	0.291	0.291	0.291	0.291	0.291	0.291	0.291	0.291	0.291	0.291	0.291	0.291

(1) ERM has assumed that 20% of the total 'transfer' capacity will deliver recycling capacity

(2) ERM has assumed that 5% of the total 'transfer' capacity will deliver recycling capacity

(3) Data for C&D recovery for landfill cover for the SE Region were sourced from the original MEL model, which sourced the data from Symonds (2001)

Note: The capacity model developed by ERM for this study does not include the capacity provided in the 'Others' group in its calculations because these are not relevant to the management of MSW, C&I and C&D. These data are included for the purposes of completeness.

4.000

Hampshire

DATA_08: RESIDUE RATES (%)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Recovery residues (% by weight)																					
MSW and C&I incineration (non-specialist) - bottom ash	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
MSW and C&I incineration (non-specialist) - fly ash	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
MSW and C&I to MBT	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59
MSW and C&I to RDF	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
MSW and C&I treatment - non-hazardous	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45
MSW and C&I treatment - hazardous	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Hazardous waste recovery	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Recycling residues (% by weight)																					
MSW and C&I recycling	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
(2) MSW and C&I transfer	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
MSW and C&I composting	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
C&D recycling	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Hazardous waste recycling	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Other																					
Metal/ELV facility	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Ignored	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Closed	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Note: The capacity model developed by ERM for this study does not include the capacity provided in the 'Others' group in its calculations because these are not relevant to the management of MSW, C&I and C&D. These data are included for the purposes of completeness.

DATA_09: TOTAL RESIDUE (Million Tonnes)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Recovery residues (of waste managed):																					
MSW and C&I incineration (non-specialist) - bottom ash	0.084	0.091	0.099	0.107	0.116	0.126	0.142	0.159	0.177	0.193	0.209	0.216	0.223	0.230	0.237	0.245	0.242	0.239	0.236	0.233	0.230
MSW and C&I incineration (non-specialist) - fly ash	0.008	0.009	0.010	0.011	0.012	0.013	0.014	0.016	0.018	0.019	0.021	0.022	0.022	0.023	0.024	0.024	0.024	0.024	0.024	0.023	0.023
MSW and C&I to MBT	0.165	0.179	0.194	0.211	0.228	0.247	0.280	0.314	0.348	0.380	0.412	0.425	0.439	0.453	0.467	0.481	0.476	0.470	0.464	0.458	0.452
MSW and C&I to RDF	0.033	0.036	0.039	0.043	0.046	0.050	0.057	0.064	0.071	0.077	0.084	0.086	0.089	0.092	0.095	0.098	0.097	0.096	0.094	0.093	0.092
MSW and C&I treatment - non-hazardous	0.126	0.136	0.148	0.161	0.174	0.188	0.213	0.239	0.266	0.290	0.314	0.324	0.335	0.345	0.356	0.367	0.363	0.359	0.354	0.350	0.345
MSW and C&I treatment - hazardous	0.014	0.015	0.016	0.018	0.019	0.021	0.024	0.027	0.030	0.032	0.035	0.036	0.037	0.038	0.040	0.041	0.040	0.040	0.039	0.039	0.038
Hazardous waste recovery	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Recycling residues (of waste managed):																					
MSW and C&I recycling and composting	0.144	0.155	0.167	0.180	0.194	0.209	0.220	0.230	0.241	0.250	0.259	0.267	0.275	0.284	0.293	0.302	0.310	0.319	0.329	0.338	0.347
C&D recycling	0.097	0.099	0.101	0.103	0.105	0.107	0.107	0.107	0.107	0.107	0.107	0.112	0.116	0.120	0.125	0.129	0.129	0.129	0.129	0.129	0.129
Hazardous waste recycling	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Note: All residues are calculated on the amount of waste arising not on the maount of capacity available. This is complaince with the self-sufficiency requirements of PPS10.

DATA_10: TOTAL MSW AND C&I RESIDUE FROM RECYCLING SENT TO NON-HAZARDOUS LANDFILL (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Total MSW and C&I recycling and composting residue sent to non-hazardous landfill	0.241	0.254	0.268	0.283	0.300	0.317	0.327	0.338	0.348	0.357	0.366	0.378	0.391	0.404	0.417	0.430	0.439	0.448	0.457	0.467	0.476

DATA_11: TOTAL MSW AND C&I RESIDUE FROM RECOVERY SENT TO NON-HAZARDOUS LANDFILL AND C&D RECYCLING (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
SCENARIO 1 - Assumes all recovery is by 'Non-specialist incineration' (based on total recovery capacity)																					
(1) Total MSW and C&I residue sent to non-hazardous landfill assuming all MSW and C&I recovery by 'Non-specialist incineration'	0.042	0.045	0.049	0.054	0.058	0.063	0.071	0.080	0.089	0.097	0.105	0.108	0.112	0.115	0.119	0.122	0.121	0.120	0.118	0.117	0.115
(1) Total MSW and C&I residue sent to inert landfill assuming all MSW and C&I recovery by 'Non-specialist incineration'	0.042	0.045	0.049	0.054	0.058	0.063	0.071	0.080	0.089	0.097	0.105	0.108	0.112	0.115	0.119	0.122	0.121	0.120	0.118	0.117	0.115
SCENARIO 2 - Assumes all recovery is by 'MBT' (based on total recovery capacity)																					
Total MSW and C&I residue sent to non-hazardous landfill	0.165	0.179	0.194	0.211	0.228	0.247	0.280	0.314	0.348	0.380	0.412	0.425	0.439	0.453	0.467	0.481	0.476	0.470	0.464	0.458	0.452
SCENARIO 3 - Assumes all recovery is by 'RDF' (based on total recovery capacity)																					
Total MSW and C&I residue sent to non-hazardous landfill	0.033	0.036	0.039	0.043	0.046	0.050	0.057	0.064	0.071	0.077	0.084	0.086	0.089	0.092	0.095	0.098	0.097	0.096	0.094	0.093	0.092
SCENARIO 4 - Assumes all recovery is by 'treatment' (based on total recovery capacity)																					
Total MSW and C&I residue sent to non-hazardous landfill	0.126	0.136	0.148	0.161	0.174	0.188	0.213	0.239	0.266	0.290	0.314	0.324	0.335	0.345	0.356	0.367	0.363	0.359	0.354	0.350	0.345

(1) It was assumed that 50% of residue from 'non-specialist incineration' is sent to non-hazardous landfill and 50% is sent to inert landfill. In the original model assumptions developed MEL 50% was assumed to go to C&D recycling, rather than to inert landfi

DATA_12: TONNAGES OF C&D REUSED ON NON-HAZARDOUS AND INERT LANDFILL (Million Tonnes)

(1) C&D reused on landfill sites	39 %
(1) C&D reused on exempt sites	61 %
(1) C&D reused on landfill sites sent to 'non-haz landfill'	30 %
(1) C&D reused on landfill sites sent to 'inert landfill'	70 %

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
c&d	Total C&D reused on non-hazardous landfill	0.090	0.088	0.087	0.085	0.084	0.082	0.084	0.085	0.087	0.088	0.090	0.086	0.082	0.078	0.074	0.070	0.071	0.072	0.073	0.074	0.075
	Total reused C&D on inert landfill	0.210	0.206	0.203	0.199	0.196	0.192	0.196	0.199	0.203	0.206	0.210	0.201	0.191	0.182	0.173	0.163	0.166	0.168	0.170	0.173	0.175

(1) C&D reuse rates based on original model assumptions developed MEL
NOTE: C&D reuse on inert and non-hazardous landfill is not included within the charts because it has been assumed that data supplied by each sub-region has accounted for C&D reuse as an engineering material.

DATA_13: TOTAL MSW AND C&I RESIDUE FROM RECYCLING SENT TO HAZARDOUS LANDFILL (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Total MSW and C&I recycling and composting residue sent to hazardous landfill	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

DATA_14: TOTAL MSW AND C&I RESIDUE FROM RECOVERY SENT TO HAZARDOUS LANDFILL (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
SCENARIO 1 - Assumes all recovery is by 'Non-specialist incineration' (based on total recovery capacity)																					
Total MSW and C&I residue sent to hazardous landfill assuming all MSW and C&I recovery by 'Non-specialist incineration'	0.008	0.009	0.010	0.011	0.012	0.013	0.014	0.016	0.018	0.019	0.021	0.022	0.022	0.023	0.024	0.024	0.024	0.024	0.024	0.023	0.023
SCENARIO 2 - Assumes all recovery is by 'MBT' (based on total recovery capacity)																					
Total MSW and C&I residue sent to hazardous landfill	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SCENARIO 3 - Assumes all recovery is by 'RDF' (based on total recovery capacity)																					
Total MSW and C&I residue sent to hazardous landfill	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SCENARIO 4 - Assumes all recovery is by 'treatment' (based on total recovery capacity)																					
Total MSW and C&I residue sent to hazardous landfill	0.014	0.015	0.016	0.018	0.019	0.021	0.024	0.027	0.030	0.032	0.035	0.036	0.037	0.038	0.040	0.041	0.040	0.040	0.039	0.039	0.038

NOTE: This element of the model is redundant. There is currently no hazardous waste capacity figures to generate a chart of managed waste versus available capacity.

DATA_15: TOTAL HAZARDOUS WASTE RESIDUE FROM RECOVERY AND RECYCLING SENT TO HAZARDOUS LANDFILL (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Total hazardous waste recycling and recovery residue sent to hazardous landfill	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Hampshire

CHART_06

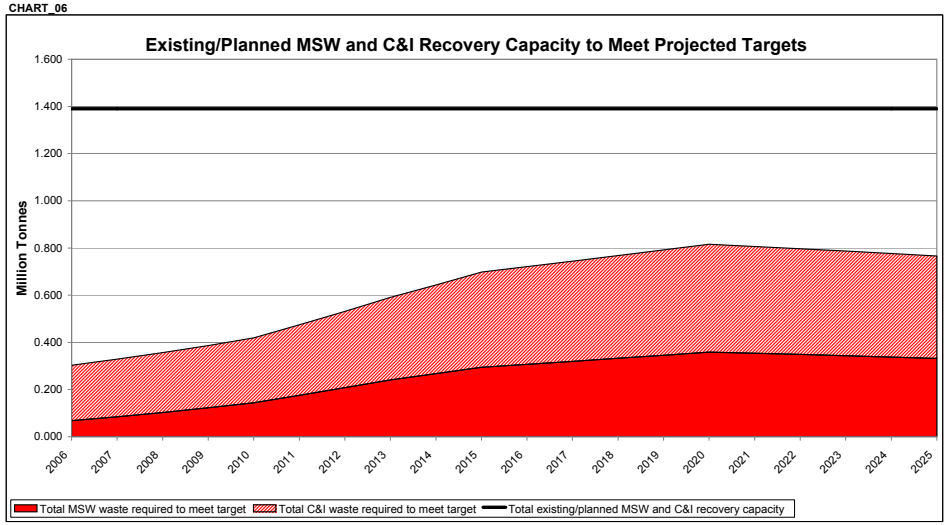


CHART_07

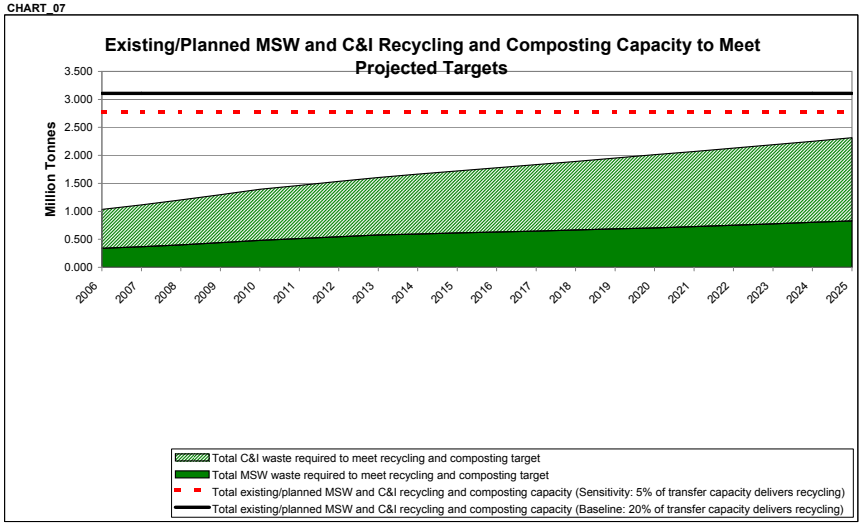
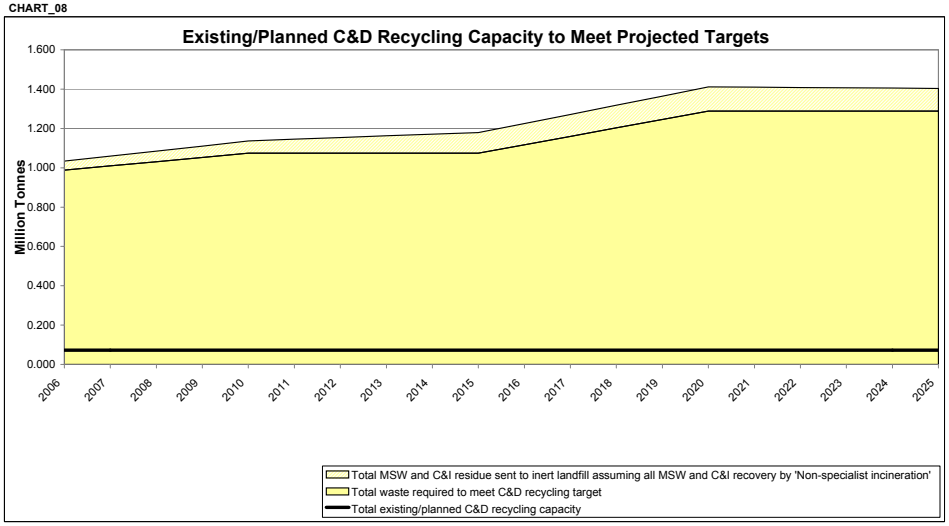


CHART_08



Hampshire

CHART_09

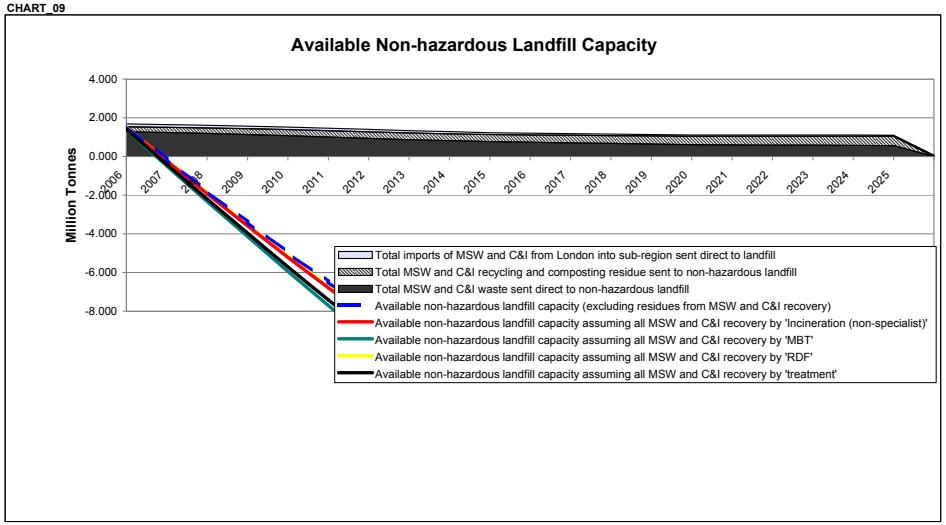
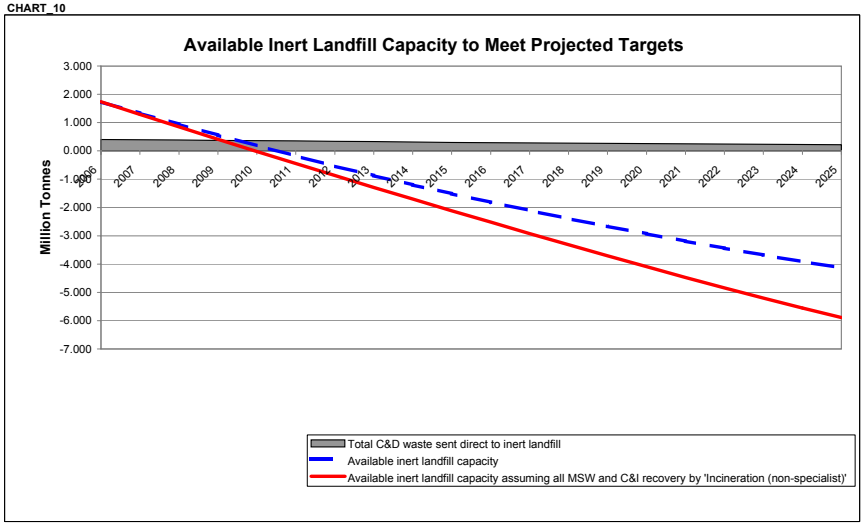


CHART_10



NOTE: The graph assumes that the baseline capacity for non-hazardous landfill has accounted for C&D reuse as a landfill engineering material.

Isle of Wight

SUMMARY DATA AND RESULTS FOR ISLE OF WIGHT

MANAGED WASTE USED TO GENERATE RESULTS (Million Tonnes)	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	0.090	0.092	0.094	0.097	0.099	0.101	0.103	0.105	0.107	0.110	0.111	0.113	0.115	0.116	0.118	0.120	0.122	0.123	0.125	0.127
msw - imports from london that are sent direct to non-hazardous landfill	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
c&i	0.137	0.140	0.144	0.147	0.151	0.154	0.157	0.160	0.164	0.167	0.169	0.172	0.174	0.177	0.180	0.181	0.183	0.185	0.187	0.189
c&i - imports from london that are sent direct to non-hazardous landfill	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
c&d	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171
hazardous	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004

WASTE STREAM TONNAGES TO MEET TARGETS (Million Tonnes)		2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	LATS shortfall (how much extra is landfilled above LATS target)	0.003	0.003	0.002	0.002	0.002	0.003	0.004	0.005	0.003	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Recycling and composting target	0.031	0.034	0.036	0.039	0.041	0.045	0.048	0.052	0.054	0.055	0.057	0.059	0.061	0.063	0.065	0.067	0.069	0.072	0.074	0.076
	Recovery target	0.006	0.008	0.009	0.011	0.012	0.015	0.018	0.022	0.024	0.027	0.028	0.029	0.030	0.032	0.033	0.033	0.032	0.032	0.031	0.031
	Non-hazardous landfill	0.052	0.051	0.049	0.048	0.045	0.041	0.036	0.032	0.030	0.028	0.026	0.025	0.023	0.022	0.020	0.020	0.020	0.020	0.020	0.020
c&i	Recycling and composting target	0.057	0.062	0.066	0.071	0.076	0.079	0.082	0.085	0.088	0.092	0.095	0.098	0.101	0.104	0.108	0.111	0.114	0.117	0.120	0.123
	Recovery target	0.019	0.020	0.021	0.022	0.023	0.025	0.027	0.029	0.031	0.033	0.034	0.035	0.036	0.037	0.038	0.037	0.037	0.037	0.036	0.036
	Non-hazardous landfill	0.060	0.058	0.057	0.055	0.053	0.051	0.049	0.046	0.044	0.042	0.040	0.039	0.037	0.036	0.034	0.033	0.033	0.032	0.031	0.030
c&d	Recycling target	0.078	0.080	0.082	0.084	0.085	0.085	0.085	0.085	0.085	0.085	0.089	0.092	0.096	0.099	0.102	0.102	0.102	0.102	0.102	0.102
	Recovery target	0.060	0.059	0.058	0.057	0.056	0.057	0.058	0.059	0.060	0.061	0.059	0.056	0.053	0.051	0.048	0.048	0.049	0.050	0.051	0.051
	Inert landfill	0.032	0.031	0.030	0.030	0.029	0.028	0.027	0.026	0.025	0.024	0.023	0.023	0.022	0.021	0.020	0.020	0.019	0.018	0.018	0.017
hazardous	Hazardous waste	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004

Note: If there is a LATS shortfall, denoted by a positive number, (ie insufficient allowance to landfill non-diverted waste) then the model assumes that this extra waste is recycled/composted and recovered at the same ratio as the regional targets for recycling/composting and recovery for that year.

EXISTING/PLANNED CAPACITY FOR RECYCLING, RECOVERY AND LANDFILLING AND TOTAL WASTE TONNAGES TO EACH DISPOSAL ROUTE (Million Tonnes)		2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
MSW and C&I recovery																					
	Total existing/planned MSW and C&I recovery capacity	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080
	Surplus/deficit capacity	0.054	0.052	0.050	0.047	0.045	0.040	0.035	0.029	0.025	0.020	0.018	0.016	0.014	0.012	0.009	0.010	0.011	0.012	0.013	0.014
MSW and C&I recycling and composting																					
	Total existing/planned MSW and C&I recycling and composting capacity (Baseline: 20% of transfer capacity delivers recycling)	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070
	Total existing/planned MSW and C&I recycling and composting capacity (Sensitivity: 5% of transfer capacity delivers recycling)	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056
	Surplus/deficit capacity (Baseline: 20% of transfer capacity delivers recycling)	-0.019	-0.026	-0.032	-0.040	-0.047	-0.054	-0.061	-0.067	-0.072	-0.078	-0.082	-0.087	-0.092	-0.098	-0.103	-0.108	-0.113	-0.119	-0.124	-0.129
	Surplus/deficit capacity (Sensitivity: 5% of transfer capacity delivers recycling)	-0.033	-0.039	-0.046	-0.053	-0.061	-0.067	-0.074	-0.080	-0.086	-0.091	-0.096	-0.101	-0.106	-0.111	-0.116	-0.121	-0.127	-0.132	-0.137	-0.143
C&D recycling																					
	Total existing/planned C&D recycling capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Surplus/deficit capacity	-0.078	-0.080	-0.082	-0.084	-0.085	-0.085	-0.085	-0.085	-0.085	-0.085	-0.089	-0.092	-0.096	-0.099	-0.102	-0.102	-0.102	-0.102	-0.102	-0.102
C&D recovery																					
	REGIONAL total existing/planned C&D recovery capacity	1.794	1.710	1.627	1.544	1.460	1.439	1.418	1.398	1.377	1.356	1.325	1.293	1.262	1.231	1.199	1.220	1.241	1.262	1.283	1.304
	Surplus/deficit capacity	1.733	1.651	1.569	1.486	1.404	1.382	1.360	1.338	1.316	1.294	1.266	1.237	1.209	1.180	1.152	1.172	1.192	1.212	1.232	1.252
Hazardous waste recycling																					
	Total existing/planned hazardous waste recycling capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Surplus/deficit capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hazardous waste recovery																					
	Total existing/planned hazardous waste recovery capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Surplus/deficit capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Non-hazardous landfill																					
	Available non-hazardous landfill capacity (excluding residues from MSW and C&I recovery)	0.950	0.817	0.685	0.555	0.428	0.304	0.185	0.072	-0.036	-0.139	-0.239	-0.337	-0.433	-0.528	-0.621	-0.711	-0.801	-0.892	-0.983	-1.073
	Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'Incineration (non-specialist)'	0.950	0.813	0.677	0.543	0.411	0.281	0.156	0.036	-0.079	-0.191	-0.299	-0.407	-0.513	-0.617	-0.720	-0.821	-0.922	-1.023	-1.124	-1.224
	Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'MBT'	0.950	0.801	0.653	0.506	0.360	0.215	0.072	-0.068	-0.205	-0.341	-0.476	-0.611	-0.745	-0.879	-1.012	-1.144	-1.276	-1.407	-1.538	-1.668
	Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'RDF'	0.950	0.814	0.679	0.545	0.414	0.286	0.162	0.043	-0.070	-0.180	-0.287	-0.393	-0.497	-0.599	-0.700	-0.799	-0.898	-0.997	-1.096	-1.194
	Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'treatment'	0.950	0.805	0.661	0.518	0.376	0.236	0.099	-0.035	-0.165	-0.293	-0.420	-0.546	-0.671	-0.796	-0.919	-1.041	-1.163	-1.285	-1.406	-1.527
Inert landfill																					
	Available inert landfill capacity	0.000	-0.032	-0.063	-0.093	-0.123	-0.152	-0.180	-0.207	-0.233	-0.258	-0.282	-0.305	-0.327	-0.349	-0.370	-0.391	-0.411	-0.430	-0.448	-0.466
	Available inert landfill capacity assuming all MSW and C&I recovery by 'Incineration (non-specialist)'	0.000	-0.036	-0.071	-0.106	-0.140	-0.175	-0.209	-0.242	-0.276	-0.309	-0.342	-0.374	-0.407	-0.438	-0.470	-0.501	-0.531	-0.561	-0.589	-0.617
Hazardous landfill																					
	Available hazardous landfill capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Note: The model does not contain data for the management of hazardous waste.

DATA_01: ARISINGS AND GROWTH RATES OF MSW, C&I AND HAZARDOUS WASTE (Million Tonnes)		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	Arisings of MSW in baseline year																					
	(1) Forecast regional level growth rate of MSW - per year (%)	3.0%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%
	(1) Forecast regional level growth rate of MSW - cumulative (%)	106%	109%	111%	114%	117%	120%	122%	125%	127%	130%	133%	135%	137%	139%	141%	143%	145%	147%	149%	152%	154%
	Total arisings of MSW using regional growth forecasts	0.088	0.090	0.092	0.094	0.097	0.099	0.101	0.103	0.105	0.107	0.110	0.111	0.113	0.115	0.116	0.118	0.120	0.122	0.123	0.125	0.127
	(1) Forecast sub-regional growth rate of MSW - per year (%)	3.0%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%
	(1) Forecast sub-regional level growth rate of MSW - cumulative (%)	106%	109%	111%	114%	117%	120%	122%	125%	127%	130%	133%	135%	137%	139%	141%	143%	145%	147%	149%	152%	154%
	Total arisings of MSW using sub-regional growth forecasts	0.088	0.090	0.092	0.094	0.097	0.099	0.101	0.103	0.105	0.107	0.110	0.111	0.113	0.115	0.116	0.118	0.120	0.122	0.123	0.125	0.127
c&i	Arisings of C&I in baseline year																					
	(1) Forecast regional level growth rate of C&I - per year (%)	3.3%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.0%	1.0%	1.0%	1.0%	1.0%
	(1) Forecast regional level growth rate of C&I - cumulative (%)	117%	120%	123%	126%	130%	133%	136%	138%	141%	144%	147%	149%	151%	153%	156%	158%	160%	161%	163%	164%	166%
	Total arisings of C&I using regional growth forecasts	0.134	0.137	0.140	0.144	0.147	0.151	0.154	0.157	0.160	0.164	0.167	0.169	0.172	0.174	0.177	0.180	0.181	0.183	0.185	0.187	0.189
	(1) Forecast sub-regional level growth rate of C&I - per year (%)	3.3%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.0%	1.0%	1.0%	1.0%	1.0%
	(1) Forecast sub-regional level growth rate of C&I - cumulative (%)	117%	120%	123%	126%	130%	133%	136%	138%	141%	144%	147%	149%	151%	153%	156%	158%	160%	161%	163%	164%	166%
	Total arisings of C&I using sub-regional growth forecasts	0.134	0.137	0.140	0.144	0.147	0.151	0.154	0.157	0.160	0.164	0.167	0.169	0.172	0.174	0.177	0.180	0.181	0.183	0.185	0.187	0.189
hazardous	Arisings of hazardous waste in baseline year																					
	(2) Forecast regional level growth rate of hazardous waste - per year (%)	3.3%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.0%	1.0%	1.0%	1.0%	1.0%
	Forecast regional level growth rate of hazardous waste - cumulative (%)	107%	109%	112%	115%	118%	121%	123%	126%	128%	131%	133%	135%	137%	139%	141%	144%	145%	146%	148%	149%	151%
	Total arisings of hazardous waste	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
	(2) Forecast sub-regional level growth rate of hazardous waste - per year (%)	3.3%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.0%	1.0%	1.0%	1.0%	1.0%
	Forecast sub regional level growth rate of hazardous waste - cumulative (%)	107%	109%	112%	115%	118%	121%	123%	126%	128%	131%	133%	135%	137%	139%	141%	144%	145%	146%	148%	149%	151%
	Total arisings of hazardous waste	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
c&d	Total managed C&D in baseline year																					
	(3) Forecast regional-level growth rate of managed C&D - per year (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Forecast regional-level growth rate of managed C&D - cumulative (%)	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
	(3) Total managed of C&D for the sub-region	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171

(1) Figures from SEERA updated waste capacity model by ERM in 2005.
(2) Baseline year of hazardous waste arisings is 2003 from EA Hazardous Waste Interrogator. www.environment-agency.gov.uk/apps/wastesurvey2/. ERM has assumed that growth in hazardous waste is equal to C&I waste.
(3) These data represent managed C&D waste in the sub-region, including all intra-regional and inter-regional movements. Growth is assumed to be zero from the orginal MEL study and updated modeted by ERM in 2005.
NOTE: C&D waste is not included in arisings because this was taken from survey data by Symonds 2001 which gave values for managed C&D waste.

Isle of Wight

Figure in blue represent data supplied by each sub-region for the new '2006 SEERA Capacity and Need Model'
Figures in orange represent managed waste that are used by the model to calculate results. These can be adjusted for different scenarios.

DATA_02: INTER REGIONAL MOVEMENTS OF MSW and C&I (Million Tonnes)		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw and c&i	Regional level imports of MSW and C&I waste into the SE region from London	1.76	1.716	1.672	1.628	1.584	1.54	1.454	1.368	1.282	1.196	1.11	1.064	1.018	0.972	0.926	0.88	0.86	0.84	0.82	0.8	0.78
	Proportion of regional MSW and C&I imports that go to the sub-region (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	(1) Total imports of MSW and C&I from London into sub-region sent direct to landfill	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
msw	Proportion of total MSW and C&I imports that are MSW (%) - REGIONAL GROWTH FORECAST	40%	40%	40%	40%	40%	40%	40%	40%	40%	40%	40%	40%	40%	40%	40%	40%	40%	40%	40%	40%	40%
	Total imports of MSW into the sub-region from London - REGIONAL GROWTH FORECAST	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Proportion of total MSW and C&I imports that are MSW (%) - SUB-REGIONAL GROWTH FORECAST	40%	40%	40%	40%	40%	40%	40%	40%	40%	40%	40%	40%	40%	40%	40%	40%	40%	40%	40%	40%	40%
	Total imports of MSW into the sub-region from London - SUB-REGIONAL GROWTH FORECAST	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
c&i	Proportion of total MSW and C&I imports that are C&I (%) - REGIONAL GROWTH FORECAST	60%	60%	60%	60%	60%	60%	60%	60%	60%	60%	60%	60%	60%	60%	60%	60%	60%	60%	60%	60%	60%
	Total imports of C&I into the sub-region from London - REGIONAL GROWTH FORECAST	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Proportion of total MSW and C&I imports that are C&I (%) - SUB-REGIONAL GROWTH FORECAST	60%	60%	60%	60%	60%	60%	60%	60%	60%	60%	60%	60%	60%	60%	60%	60%	60%	60%	60%	60%	60%
	Total imports of C&I into the sub-region from London - SUB-REGIONAL GROWTH FORECAST	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

(1) Intra-regional and inter-regional movements have been excluded for MSW and C&I waste due to self-sufficiency requirements under PPS10, except for inter-regional movements from London into the sub-region. Apportionment from Policy W3 in the Plan – downloa
Note: Only a figure is available for total combined imports of MSW and C&I waste. ERM has assumed that imports of the seperate waste streams of MSW and C&I was split according to tonnage arisings of MSW and C&I in the sub-region.

DATA_03: MANAGED WASTE USED TO GENERATE RESULTS (Million Tonnes)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	0.088	0.090	0.092	0.094	0.097	0.099	0.101	0.103	0.105	0.107	0.110	0.111	0.113	0.115	0.116	0.118	0.120	0.122	0.123	0.125	0.127
msw - imports from london that are sent direct to non-hazardous landfill	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
c&i	0.134	0.137	0.140	0.144	0.147	0.151	0.154	0.157	0.160	0.164	0.167	0.169	0.172	0.174	0.177	0.180	0.181	0.183	0.185	0.187	0.189
c&I - imports from london that are sent direct to non-hazardous landfill	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
c&d	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171	0.171
hazardous	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004

DATA_04: TARGETS (% or Million Tonnes)		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	(1) landfill (Mt)	0.035	0.034	0.034	0.033	0.032	0.030	0.027	0.023	0.020	0.019	0.018	0.018	0.017	0.016	0.015	0.014	0.014	0.014	0.014	0.014	0.014
	recovered (%)	5	6.4	7.8	9.2	10.6	12	14.4	16.8	19.2	21.6	24	24.8	25.6	26.4	27.2	28	27.2	26.4	25.6	24.8	24
	recycled and composted (%)	30	32.0	34.0	36.0	38.0	40	42.0	44.0	46.0	48.0	50	51.0	52.0	53.0	54.0	55	56.0	57.0	58.0	59.0	60
c&i	recovered (%)	14	14.2	14.4	14.6	14.8	15	16.0	17.0	18.0	19.0	20	20.2	20.4	20.6	20.8	21	20.6	20.2	19.8	19.4	19
	recycled and composted (%)	40	42.0	44.0	46.0	48.0	50	51.0	52.0	53.0	54.0	55	56.0	57.0	58.0	59.0	60	61.0	62.0	63.0	64.0	65
c&d	recovered (%)	36	35.4	34.8	34.2	33.6	33	33.6	34.2	34.8	35.4	36	34.4	32.8	31.2	29.6	28	28.4	28.8	29.2	29.6	30
	recycled (%)	45	46.0	47.0	48.0	49.0	50	50.0	50.0	50.0	50.0	50	52.0	54.0	56.0	58.0	60	60.0	60.0	60.0	60.0	60
hazardous	landfill (%)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	recovered (%)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	recycled (%)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

(1) ERM has assumed that the LATS target allowance remains constant at the 2020 value for the years beyond 2020

DATA_05: WASTE STREAM TONNAGES TO MEET TARGETS (Million Tonnes)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025

This first section of DATA_03 calculates if there is a LATS shortfall or suplus in each year. If there is a LATS shortfall (ie insufficient allowance to landfill non-diverted waste) then the model assumes that this extra waste is recycled/composted and r

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	Total MSW to be recovered and recycled/composted to meet target	0.031	0.035	0.039	0.043	0.047	0.052	0.057	0.063	0.069	0.075	0.081	0.084	0.088	0.091	0.094	0.098	0.100	0.101	0.103	0.105	0.107
	Total MSW not-diverted by targets	0.057	0.055	0.054	0.052	0.050	0.048	0.044	0.040	0.037	0.033	0.028	0.027	0.025	0.024	0.022	0.020	0.020	0.020	0.020	0.020	0.020
	Percentage of MSW that is biodegradable (% by weight)	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68
	Total BMW not-diverted by targets	0.039	0.038	0.036	0.035	0.034	0.032	0.030	0.028	0.025	0.022	0.019	0.018	0.017	0.016	0.015	0.014	0.014	0.014	0.014	0.014	0.014
	LATS shortfall (how much extra is landfilled above LATS target)	0.004	0.003	0.003	0.002	0.002	0.002	0.003	0.004	0.005	0.003	0.001	0.001	0.001	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Ratio of 'recovered' to 'recycled/composted' for target (%)	14%	17%	19%	20%	22%	23%	26%	28%	29%	31%	32%	33%	33%	33%	33%	34%	33%	32%	31%	30%	29%
	Extra MSW 'recovery' needed due to LATS shortfall	*0.001*	*0.001*	*0.001*	*0.000*	*0.000*	*0.001*	*0.001*	*0.001*	*0.001*	*0.001*	*0.000*	*0.000*	*0.000*	*0.000*	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Extra MSW 'recycling/composting' needed due to LATS shortfall	*0.003*	*0.003*	*0.002*	*0.002*	*0.002*	*0.002*	*0.002*	*0.003*	*0.003*	*0.002*	*0.001*	*0.001*	*0.000*	*0.000*	0.000	0.000	0.000	0.000	0.000	0.000	0.000

The section below in DATA_03 shows the tonnages by waste to meet targets.

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	Recycling and composting target	0.030	0.031	0.034	0.036	0.039	0.041	0.045	0.048	0.052	0.054	0.055	0.057	0.059	0.061	0.063	0.065	0.067	0.069	0.072	0.074	0.076
	Recovery target	0.005	0.006	0.008	0.009	0.011	0.012	0.015	0.018	0.022	0.024	0.027	0.028	0.029	0.030	0.032	0.033	0.033	0.032	0.032	0.031	0.031
	Non-hazardous landfill	0.053	0.052	0.051	0.049	0.048	0.045	0.041	0.036	0.032	0.030	0.028	0.026	0.025	0.023	0.022	0.020	0.020	0.020	0.020	0.020	0.020
	CHECK COUNTER (should be zero)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
c&i	Recycling and composting target	0.053	0.057	0.062	0.066	0.071	0.076	0.079	0.082	0.085	0.088	0.092	0.095	0.098	0.101	0.104	0.108	0.111	0.114	0.117	0.120	0.123
	Recovery target	0.019	0.019	0.020	0.021	0.022	0.023	0.025	0.027	0.029	0.031	0.033	0.034	0.035	0.036	0.037	0.038	0.037	0.037	0.037	0.036	0.036
	Non-hazardous landfill	0.061	0.060	0.058	0.057	0.055	0.053	0.051	0.049	0.046	0.044	0.042	0.040	0.039	0.037	0.036	0.034	0.033	0.033	0.032	0.031	0.030
	CHECK COUNTER (should be zero)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
c&d	Recycling target	0.077	0.078	0.080	0.082	0.084	0.085	0.085	0.085	0.085	0.085	0.085	0.089	0.092	0.096	0.099	0.102	0.102	0.102	0.102	0.102	0.102
	Recovery target	0.061	0.060	0.059	0.058	0.057	0.056	0.057	0.058	0.059	0.060	0.061	0.059	0.056	0.053	0.051	0.048	0.048	0.049	0.050	0.051	0.051
	Inert landfill	0.032	0.032	0.031	0.030	0.030	0.029	0.028	0.027	0.026	0.025	0.024	0.023	0.023	0.022	0.021	0.020	0.020	0.019	0.018	0.018	0.017
	CHECK COUNTER (should be zero)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
hazardous	Hazardous waste	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004

DATA_06: TOTAL WASTE TONNAGES TO MEET TARGETS (Million Tonnes)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
MSW and C&I recycling and composting target	0.083	0.089	0.095	0.102	0.109	0.117	0.123	0.130	0.137	0.142	0.147	0.152	0.157	0.162	0.167	0.173	0.178	0.183	0.188	0.194	0.199
C&D recycling target	0.077	0.078	0.080	0.082	0.084	0.085	0.085	0.085	0.085	0.085	0.085	0.089	0.092	0.096	0.099	0.102	0.102	0.102	0.102	0.102	0.102
MSW and C&I recovery target	0.024	0.026	0.028	0.030	0.033	0.035	0.040	0.045	0.051	0.055	0.060	0.062	0.064	0.066	0.068	0.071	0.070	0.069	0.068	0.067	0.066
C&D recovery target	0.061	0.060	0.059	0.058	0.057	0.056	0.057	0.058	0.059	0.060	0.061	0.059	0.056	0.053	0.051	0.048	0.048	0.049	0.050	0.051	0.051
Non-hazardous landfill	0.115	0.112	0.109	0.106	0.102	0.098	0.092	0.085	0.078	0.074	0.069	0.066	0.064	0.061	0.058	0.054	0.054	0.053	0.052	0.051	0.051
Inert landfill	0.032	0.032	0.031	0.030	0.030	0.029	0.028	0.027	0.026	0.025	0.024	0.023	0.023	0.022	0.021	0.020	0.020	0.019	0.018	0.018	0.017
Hazardous waste	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004

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CHART_01

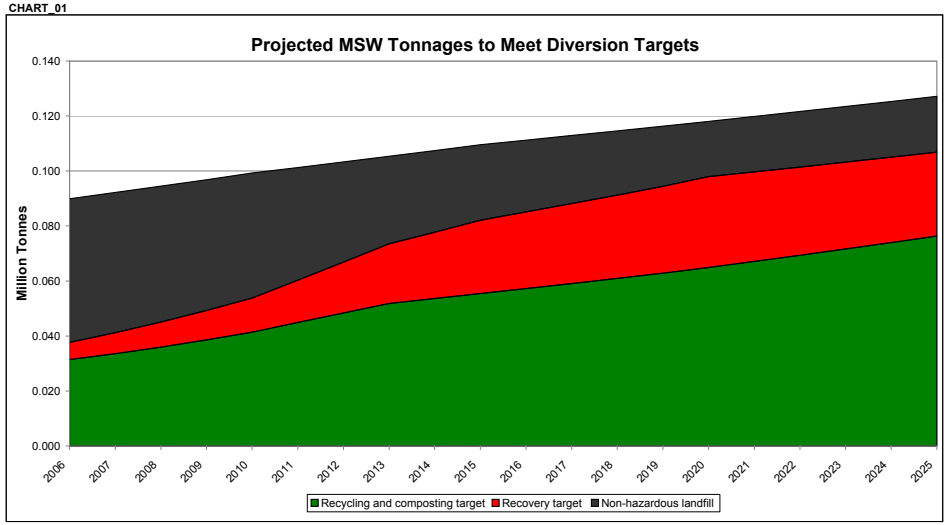
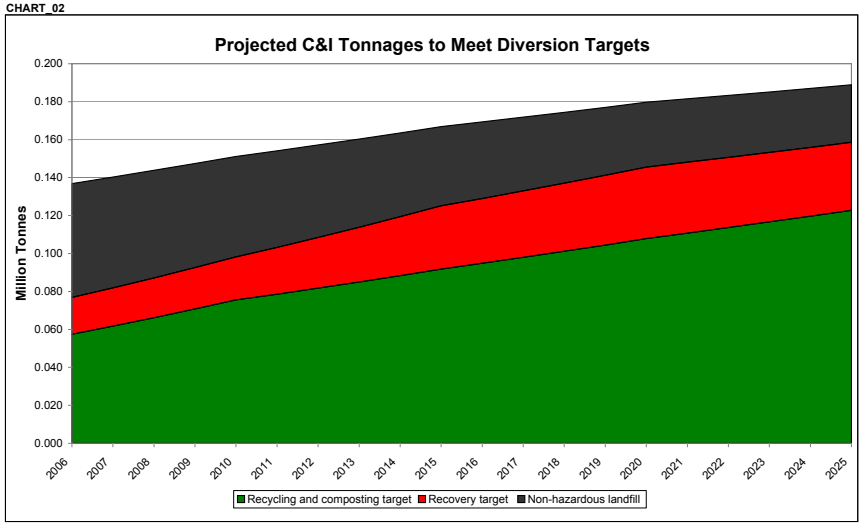


CHART_02



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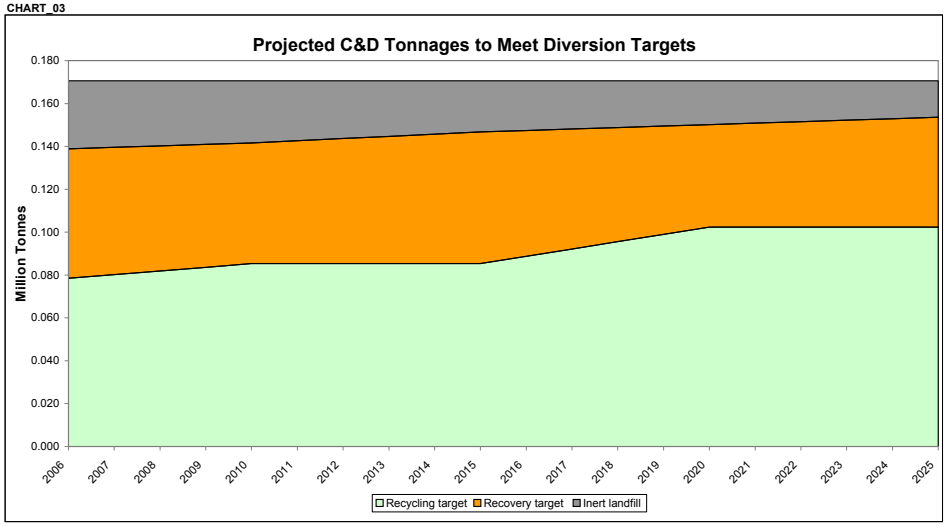

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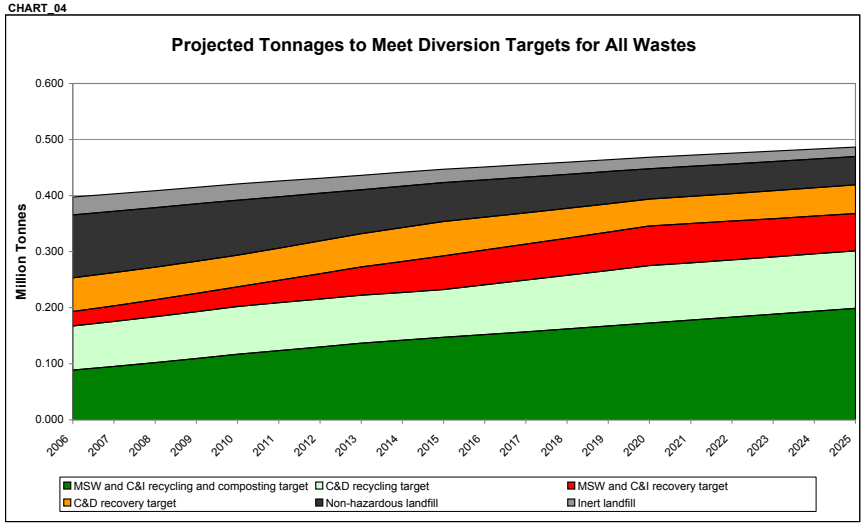
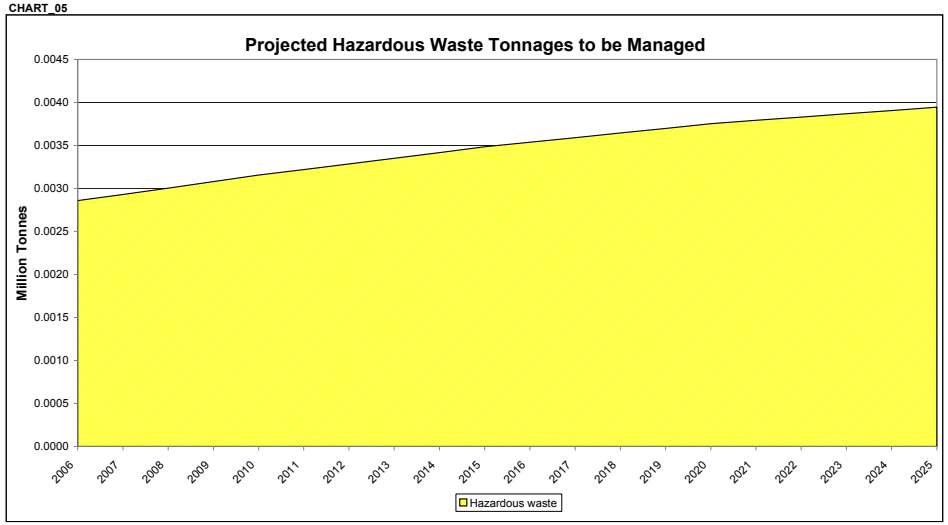


Isle of Wight

CHART_05



DATA_07: EXISTING/PLANNED CAPACITY FOR RECYCLING, RECOVERY AND LANDFILLING AND TOTAL WASTE TONNAGES TO EACH DISPOSAL ROUTE (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
MSW and C&I recovery																					
MSW and C&I incineration (non-specialist)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
MSW and C&I treatment	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080
Total existing/planned MSW and C&I recovery capacity	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080
Total MSW waste required to meet target	0.005	0.006	0.008	0.009	0.011	0.012	0.015	0.018	0.022	0.024	0.027	0.028	0.029	0.030	0.032	0.033	0.033	0.032	0.032	0.031	0.031
Total C&I waste required to meet target	0.019	0.019	0.020	0.021	0.022	0.023	0.025	0.027	0.029	0.031	0.033	0.034	0.035	0.036	0.037	0.038	0.037	0.037	0.037	0.036	0.036
Surplus/deficit capacity	0.056	0.054	0.052	0.050	0.047	0.045	0.040	0.035	0.029	0.025	0.020	0.018	0.016	0.014	0.012	0.009	0.010	0.011	0.012	0.013	0.014
MSW and C&I recycling and composting																					
MSW and C&I recycling	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
MSW and C&I transfer	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088	0.088
Total existing/planned MSW and C&I composting capacity	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052	0.052
(1) Total existing/planned MSW and C&I recycling and composting capacity (Baseline: 20% of transfer capacity delivers recycling)	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070	0.070
(2) Total existing/planned MSW and C&I recycling and composting capacity (Sensitivity: 5% of transfer capacity delivers recycling)	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056	0.056
Total MSW waste required to meet recycling and composting target	0.030	0.031	0.034	0.036	0.039	0.041	0.045	0.048	0.052	0.054	0.055	0.057	0.059	0.061	0.063	0.065	0.067	0.069	0.072	0.074	0.076
Total C&I waste required to meet recycling and composting target	0.053	0.057	0.062	0.066	0.071	0.076	0.079	0.082	0.085	0.088	0.092	0.095	0.098	0.101	0.104	0.108	0.111	0.114	0.117	0.120	0.123
Surplus/deficit capacity (Baseline: 20% of transfer capacity delivers recycling)	-0.013	-0.019	-0.026	-0.032	-0.040	-0.047	-0.054	-0.061	-0.067	-0.072	-0.078	-0.082	-0.087	-0.092	-0.098	-0.103	-0.108	-0.113	-0.119	-0.124	-0.129
Surplus/deficit capacity (Sensitivity: 5% of transfer capacity delivers recycling)	-0.027	-0.033	-0.039	-0.046	-0.053	-0.061	-0.067	-0.074	-0.080	-0.086	-0.091	-0.096	-0.101	-0.106	-0.111	-0.116	-0.121	-0.127	-0.132	-0.137	-0.143
C&D recycling																					
(3) Total existing/planned C&D recycling capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total waste required to meet C&D recycling target	0.077	0.078	0.080	0.082	0.084	0.085	0.085	0.085	0.085	0.085	0.085	0.089	0.092	0.096	0.099	0.102	0.102	0.102	0.102	0.102	0.102
Surplus/deficit capacity	-0.077	-0.078	-0.080	-0.082	-0.084	-0.085	-0.085	-0.085	-0.085	-0.085	-0.085	-0.089	-0.092	-0.096	-0.099	-0.102	-0.102	-0.102	-0.102	-0.102	-0.102
C&D recovery																					
REGIONAL total existing/planned C&D recovery capacity	1.877	1.794	1.710	1.627	1.544	1.460	1.439	1.418	1.398	1.377	1.356	1.325	1.293	1.262	1.231	1.199	1.220	1.241	1.262	1.283	1.304
Sub-regional total waste required to meet C&D recovery target	0.061	0.060	0.059	0.058	0.057	0.056	0.057	0.058	0.059	0.060	0.061	0.059	0.056	0.053	0.051	0.048	0.048	0.049	0.050	0.051	0.051
Surplus/deficit capacity	1.816	1.733	1.651	1.569	1.486	1.404	1.382	1.360	1.338	1.316	1.294	1.266	1.237	1.209	1.180	1.152	1.172	1.192	1.212	1.232	1.252
Hazardous waste recycling																					
Total existing/planned hazardous waste recycling capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total hazardous waste to be recycled	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Surplus/deficit capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hazardous waste recovery																					
Total existing/planned hazardous waste recovery capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total hazardous waste to be recovered	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Surplus/deficit capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Non-hazardous landfill																					
Available non-hazardous landfill capacity (excluding residues from MSW and C&I recovery)		0.950	0.817	0.685	0.555	0.428	0.304	0.185	0.072	-0.036	-0.139	-0.239	-0.337	-0.433	-0.528	-0.621	-0.711	-0.801	-0.892	-0.983	-1.073
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'Incineration (non-specialist)'		0.950	0.813	0.677	0.543	0.411	0.281	0.156	0.036	-0.079	-0.191	-0.299	-0.407	-0.513	-0.617	-0.720	-0.821	-0.922	-1.023	-1.124	-1.224
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'MBT'		0.950	0.801	0.653	0.506	0.360	0.215	0.072	-0.068	-0.205	-0.341	-0.476	-0.611	-0.745	-0.879	-1.012	-1.144	-1.276	-1.407	-1.538	-1.668
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'RDF'		0.950	0.814	0.679	0.545	0.414	0.286	0.162	0.043	-0.070	-0.180	-0.287	-0.393	-0.497	-0.599	-0.700	-0.799	-0.898	-0.997	-1.096	-1.194
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'treatment'		0.950	0.805	0.661	0.518	0.376	0.236	0.099	-0.035	-0.165	-0.293	-0.420	-0.546	-0.671	-0.796	-0.919	-1.041	-1.163	-1.285	-1.406	-1.527
Total MSW and C&I waste sent direct to non-hazardous landfill		0.112	0.109	0.106	0.102	0.098	0.092	0.085	0.078	0.074	0.069	0.066	0.064	0.061	0.058	0.054	0.054	0.053	0.052	0.051	0.051
Inert landfill																					
Available inert landfill capacity		0.000	-0.032	-0.063	-0.093	-0.123	-0.152	-0.180	-0.207	-0.233	-0.258	-0.282	-0.305	-0.327	-0.349	-0.370	-0.391	-0.411	-0.430	-0.448	-0.466
Available inert landfill capacity assuming all MSW and C&I recovery by 'Incineration (non-specialist)'		0.000	-0.036	-0.071	-0.106	-0.140	-0.175	-0.209	-0.242	-0.276	-0.309	-0.342	-0.374	-0.407	-0.438	-0.470	-0.501	-0.531	-0.561	-0.589	-0.617
Total C&D waste sent direct to inert landfill	0.032	0.032	0.031	0.030	0.030	0.029	0.028	0.027	0.026	0.025	0.024	0.023	0.023	0.022	0.021	0.020	0.020	0.019	0.018	0.018	0.017
Hazardous landfill																					
Available hazardous landfill capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total hazardous waste sent direct to hazardous landfill	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Other																					
Metal/ELV facility	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110	0.110
Ignored	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Closed	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

(1) ERM has assumed that 20% of the total 'transfer' capacity will deliver recycling capacity
(2) ERM has assumed that 5% of the total 'transfer' capacity will deliver recycling capacity
(3) Data for C&D recovery for landfill cover for the SE Region were sourced from the original MEL model, which sourced the data from Symonds (2001)
Note: The capacity model developed by ERM for this study does not include the capacity provided in the 'Others' group in its calculations because these are not relevant to the management of MSW, C&I and C&D. These data are included for the purposes of completeness.

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DATA_08: RESIDUE RATES (%)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Recovery residues (% by weight)																					
MSW and C&I incineration (non-specialist) - bottom ash	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
MSW and C&I incineration (non-specialist) - fly ash	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
MSW and C&I to MBT	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59
MSW and C&I to RDF	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
MSW and C&I treatment - non-hazardous	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45
MSW and C&I treatment - hazardous	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Hazardous waste recovery	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Recycling residues (% by weight)																					
MSW and C&I recycling	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
(2) MSW and C&I transfer	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
MSW and C&I composting	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
C&D recycling	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Hazardous waste recycling	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Other																					
Metal/ELV facility	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Ignored	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Closed	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Note: The capacity model developed by ERM for this study does not include the capacity provided in the 'Others' group in its calculations because these are not relevant to the management of MSW, C&I and C&D. These data are included for the purposes of completeness.

DATA_09: TOTAL RESIDUE (Million Tonnes)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Recovery residues (of waste managed):																					
MSW and C&I incineration (non-specialist) - bottom ash	0.007	0.008	0.008	0.009	0.010	0.011	0.012	0.014	0.015	0.017	0.018	0.019	0.019	0.020	0.021	0.021	0.021	0.021	0.020	0.020	0.020
MSW and C&I incineration (non-specialist) - fly ash	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
MSW and C&I to MBT	0.014	0.015	0.016	0.018	0.019	0.021	0.024	0.027	0.030	0.033	0.035	0.037	0.038	0.039	0.040	0.042	0.041	0.041	0.040	0.040	0.039
MSW and C&I to RDF	0.003	0.003	0.003	0.004	0.004	0.004	0.005	0.005	0.006	0.007	0.007	0.007	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
MSW and C&I treatment - non-hazardous	0.011	0.012	0.013	0.014	0.015	0.016	0.018	0.020	0.023	0.025	0.027	0.028	0.029	0.030	0.031	0.032	0.031	0.031	0.031	0.030	0.030
MSW and C&I treatment - hazardous	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.004	0.003	0.003	0.003	0.003	0.003
Hazardous waste recovery	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Recycling residues (of waste managed):																					
MSW and C&I recycling and composting	0.012	0.013	0.014	0.015	0.016	0.018	0.019	0.020	0.021	0.021	0.022	0.023	0.024	0.024	0.025	0.026	0.027	0.027	0.028	0.029	0.030
C&D recycling	0.008	0.008	0.008	0.008	0.008	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.010	0.010	0.010	0.010	0.010	0.010	0.010	0.010
Hazardous waste recycling	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Note: All residues are calculated on the amount of waste arising not on the maount of capacity available. This is complaince with the self-sufficiency requirements of PPS10.

DATA_10: TOTAL MSW AND C&I RESIDUE FROM RECYCLING SENT TO NON-HAZARDOUS LANDFILL (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Total MSW and C&I recycling and composting residue sent to non-hazardous landfill	0.020	0.021	0.022	0.024	0.025	0.026	0.027	0.028	0.029	0.030	0.031	0.032	0.033	0.034	0.035	0.036	0.037	0.038	0.038	0.039	0.040

DATA_11: TOTAL MSW AND C&I RESIDUE FROM RECOVERY SENT TO NON-HAZARDOUS LANDFILL AND C&D RECYCLING (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
SCENARIO 1 - Assumes all recovery is by 'Non-specialist incineration' (based on total recovery capacity)																					
(1) Total MSW and C&I residue sent to non-hazardous landfill assuming all MSW and C&I recovery by 'Non-specialist incineration'	0.004	0.004	0.004	0.005	0.005	0.005	0.006	0.007	0.008	0.008	0.009	0.009	0.010	0.010	0.010	0.011	0.010	0.010	0.010	0.010	0.010
(1) Total MSW and C&I residue sent to inert landfill assuming all MSW and C&I recovery by 'Non-specialist incineration'	0.004	0.004	0.004	0.005	0.005	0.005	0.006	0.007	0.008	0.008	0.009	0.009	0.010	0.010	0.010	0.011	0.010	0.010	0.010	0.010	0.010
SCENARIO 2 - Assumes all recovery is by 'MBT' (based on total recovery capacity)																					
Total MSW and C&I residue sent to non-hazardous landfill	0.014	0.015	0.016	0.018	0.019	0.021	0.024	0.027	0.030	0.033	0.035	0.037	0.038	0.039	0.040	0.042	0.041	0.041	0.040	0.040	0.039
SCENARIO 3 - Assumes all recovery is by 'RDF' (based on total recovery capacity)																					
Total MSW and C&I residue sent to non-hazardous landfill	0.003	0.003	0.003	0.004	0.004	0.004	0.005	0.005	0.006	0.007	0.007	0.007	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
SCENARIO 4 - Assumes all recovery is by 'treatment' (based on total recovery capacity)																					
Total MSW and C&I residue sent to non-hazardous landfill	0.011	0.012	0.013	0.014	0.015	0.016	0.018	0.020	0.023	0.025	0.027	0.028	0.029	0.030	0.031	0.032	0.031	0.031	0.031	0.030	0.030

(1) It was assumed that 50% of residue from 'non-specialist incineration' is sent to non-hazardous landfill and 50% is sent to inert landfill. In the original model assumptions developed MEL 50% was assumed to go to C&D recycling, rather than to inert landfi

DATA_12: TONNAGES OF C&D REUSED ON NON-HAZARDOUS AND INERT LANDFILL (Million Tonnes)

(1) C&D reused on landfill sites	39 %
(1) C&D reused on exempt sites	61 %
(1) C&D reused on landfill sites sent to 'non-haz landfill'	30 %
(1) C&D reused on landfill sites sent to 'inert landfill'	70 %

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
c&d	Total C&D reused on non-hazardous landfill	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006
	Total reused C&D on inert landfill	0.017	0.016	0.016	0.016	0.016	0.015	0.016	0.016	0.016	0.016	0.017	0.016	0.015	0.014	0.014	0.013	0.013	0.013	0.014	0.014	0.014

(1) C&D reuse rates based on original model assumptions developed MEL
NOTE: C&D reuse on inert and non-hazardous landfill is not included within the charts because it has been assumed that data supplied by each sub-region has accounted for C&D reuse as an engineering material.

DATA_13: TOTAL MSW AND C&I RESIDUE FROM RECYCLING SENT TO HAZARDOUS LANDFILL (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Total MSW and C&I recycling and composting residue sent to hazardous landfill	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

DATA_14: TOTAL MSW AND C&I RESIDUE FROM RECOVERY SENT TO HAZARDOUS LANDFILL (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
SCENARIO 1 - Assumes all recovery is by 'Non-specialist incineration' (based on total recovery capacity)																					
Total MSW and C&I residue sent to hazardous landfill assuming all MSW and C&I recovery by 'Non-specialist incineration'	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
SCENARIO 2 - Assumes all recovery is by 'MBT' (based on total recovery capacity)																					
Total MSW and C&I residue sent to hazardous landfill	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SCENARIO 3 - Assumes all recovery is by 'RDF' (based on total recovery capacity)																					
Total MSW and C&I residue sent to hazardous landfill	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SCENARIO 4 - Assumes all recovery is by 'treatment' (based on total recovery capacity)																					
Total MSW and C&I residue sent to hazardous landfill	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.004	0.003	0.003	0.003	0.003	0.003

NOTE: This element of the model is redundant. There is currently no hazardous waste capacity figures to generate a chart of managed waste versus available capacity.

DATA_15: TOTAL HAZARDOUS WASTE RESIDUE FROM RECOVERY AND RECYCLING SENT TO HAZARDOUS LANDFILL (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Total hazardous waste recycling and recovery residue sent to hazardous landfill	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Isle of Wight

CHART_06

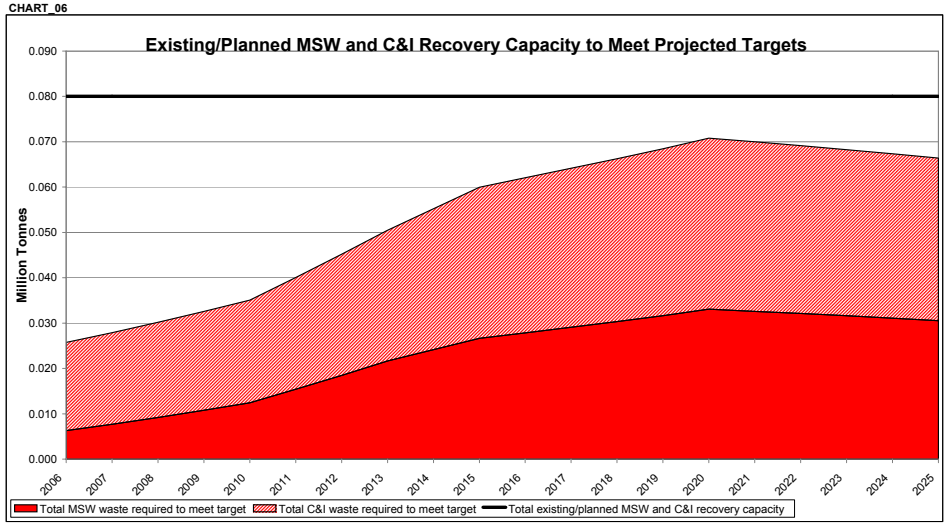


CHART_07

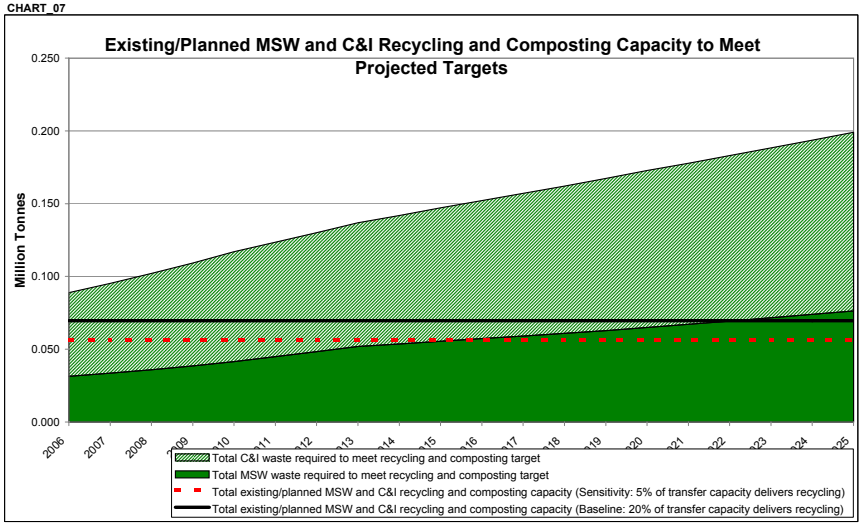
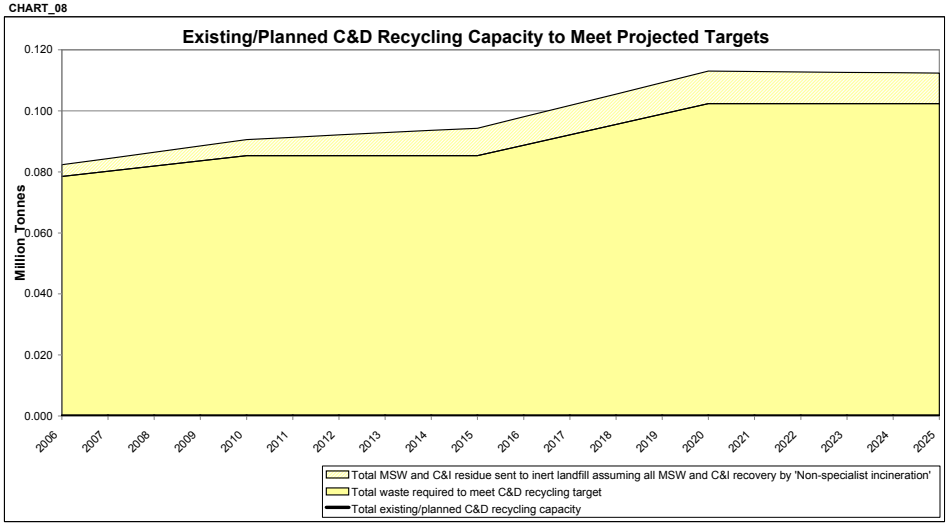


CHART_08



Isle of Wight

CHART_09

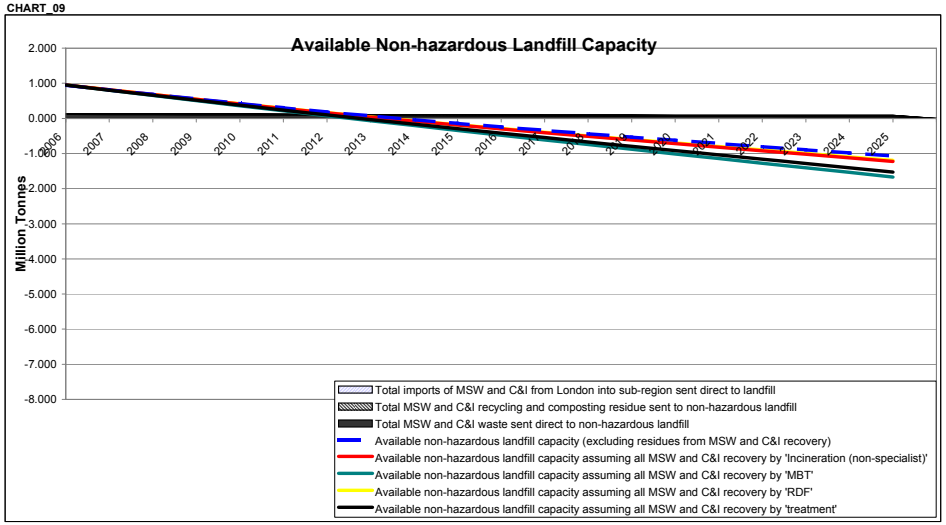
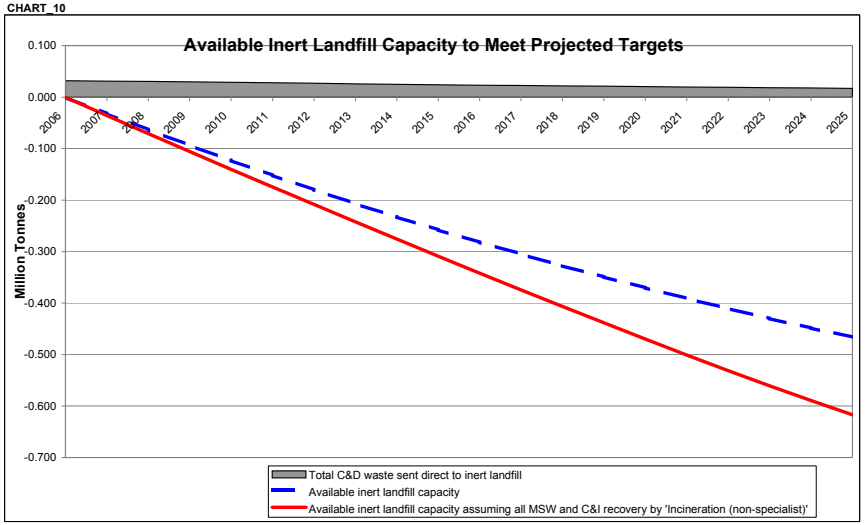


CHART_10



NOTE: The graph assumes that the baseline capacity for non-hazardous landfill has accounted for C&D reuse as a landfill engineering material.

Kent

SUMMARY DATA AND RESULTS FOR KENT

MANAGED WASTE USED TO GENERATE RESULTS (Million Tonnes)	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	0.875	0.897	0.919	0.942	0.966	0.985	1.005	1.025	1.045	1.066	1.082	1.098	1.115	1.131	1.148	1.166	1.183	1.201	1.219	1.237
msw - imports from london that are sent direct to non-hazardous landfill	0.061	0.060	0.058	0.057	0.055	0.052	0.049	0.046	0.043	0.040	0.038	0.036	0.035	0.033	0.031	0.031	0.030	0.030	0.029	0.028
c&i	1.872	1.919	1.967	2.016	2.067	2.108	2.150	2.193	2.237	2.282	2.316	2.351	2.386	2.422	2.458	2.483	2.507	2.532	2.558	2.583
c&i - imports from london that are sent direct to non-hazardous landfill	0.131	0.128	0.125	0.121	0.118	0.111	0.105	0.098	0.092	0.085	0.081	0.078	0.074	0.071	0.067	0.066	0.064	0.062	0.061	0.059
c&d	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600
hazardous	0.108	0.111	0.113	0.116	0.119	0.122	0.124	0.126	0.129	0.132	0.134	0.136	0.138	0.140	0.142	0.143	0.145	0.146	0.148	0.149

WASTE STREAM TONNAGES TO MEET TARGETS (Million Tonnes)		2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	LATS shortfall (how much extra is landfilled above LATS target)	-0.047	-0.038	-0.023	-0.002	0.025	0.034	0.042	0.049	0.031	0.012	0.010	0.007	0.004	0.001	-0.003	-0.002	-0.002	-0.001	-0.001	-0.001
	Recycling and composting target	0.280	0.305	0.331	0.358	0.405	0.439	0.473	0.506	0.523	0.541	0.558	0.576	0.594	0.612	0.632	0.653	0.674	0.697	0.719	0.742
	Recovery target	0.056	0.070	0.085	0.100	0.122	0.151	0.180	0.211	0.235	0.260	0.271	0.284	0.296	0.308	0.322	0.317	0.312	0.307	0.302	0.297
	Non-hazardous landfill	0.539	0.522	0.504	0.484	0.439	0.395	0.352	0.307	0.287	0.265	0.252	0.239	0.225	0.212	0.195	0.196	0.196	0.197	0.197	0.198
c&i	Recycling and composting target	0.786	0.844	0.905	0.968	1.033	1.075	1.118	1.162	1.208	1.255	1.297	1.340	1.384	1.429	1.475	1.514	1.555	1.595	1.637	1.679
	Recovery target	0.266	0.276	0.287	0.298	0.310	0.337	0.366	0.395	0.425	0.456	0.468	0.480	0.491	0.504	0.516	0.511	0.506	0.501	0.496	0.491
	Non-hazardous landfill	0.820	0.798	0.775	0.750	0.723	0.696	0.667	0.636	0.604	0.570	0.551	0.531	0.511	0.489	0.467	0.457	0.446	0.436	0.425	0.413
c&d	Recycling target	1.196	1.222	1.248	1.274	1.300	1.300	1.300	1.300	1.300	1.300	1.352	1.404	1.456	1.508	1.560	1.560	1.560	1.560	1.560	1.560
	Recovery target	0.920	0.905	0.889	0.874	0.858	0.874	0.889	0.905	0.920	0.936	0.894	0.853	0.811	0.770	0.728	0.738	0.749	0.759	0.770	0.780
	Inert landfill	0.484	0.473	0.463	0.452	0.442	0.426	0.411	0.395	0.380	0.364	0.354	0.343	0.333	0.322	0.312	0.302	0.291	0.281	0.270	0.260
hazardous	Hazardous waste	0.108	0.111	0.113	0.116	0.119	0.122	0.124	0.126	0.129	0.132	0.134	0.136	0.138	0.140	0.142	0.143	0.145	0.146	0.148	0.149

Note: If there is a LATS shortfall, denoted by a positive number, (ie insufficient allowance to landfill non-diverted waste) then the model assumes that this extra waste is recycled/composted and recovered at the same ratio as the regional targets for recycling/composting and recovery for that year.

EXISTING/PLANNED CAPACITY FOR RECYCLING, RECOVERY AND LANDFILLING AND TOTAL WASTE TONNAGES TO EACH DISPOSAL ROUTE (Million Tonnes)		2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
MSW and C&I recovery																					
	Total existing/planned MSW and C&I recovery capacity	0.779	0.779	0.779	0.779	0.779	0.779	0.779	0.779	0.779	0.779	0.779	0.779	0.779	0.779	0.779	0.779	0.779	0.779	0.779	0.779
	Surplus/deficit capacity	0.457	0.433	0.408	0.381	0.348	0.292	0.233	0.173	0.119	0.063	0.040	0.016	-0.008	-0.033	-0.058	-0.049	-0.040	-0.030	-0.019	-0.008
MSW and C&I recycling and composting																					
	Total existing/planned MSW and C&I recycling and composting capacity (Baseline: 20% of transfer capacity delivers recycling)	1.177	1.177	1.177	1.177	1.177	1.177	1.177	1.177	1.177	1.177	1.177	1.177	1.177	1.177	1.177	1.177	1.177	1.177	1.177	1.177
	Total existing/planned MSW and C&I recycling and composting capacity (Sensitivity: 5% of transfer capacity delivers recycling)	0.748	0.748	0.748	0.748	0.748	0.748	0.748	0.748	0.748	0.748	0.748	0.748	0.748	0.748	0.748	0.748	0.748	0.748	0.748	0.748
	Surplus/deficit capacity (Baseline: 20% of transfer capacity delivers recycling)	0.111	0.028	-0.058	-0.149	-0.261	-0.337	-0.413	-0.491	-0.554	-0.619	-0.678	-0.739	-0.800	-0.863	-0.929	-0.990	-1.052	-1.115	-1.179	-1.244
	Surplus/deficit capacity (Sensitivity: 5% of transfer capacity delivers recycling)	-0.318	-0.401	-0.488	-0.578	-0.691	-0.766	-0.842	-0.920	-0.983	-1.048	-1.107	-1.168	-1.229	-1.292	-1.358	-1.419	-1.481	-1.544	-1.608	-1.673
C&D recycling																					
	Total existing/planned C&D recycling capacity	0.165	0.165	0.165	0.165	0.165	0.165	0.165	0.165	0.165	0.165	0.165	0.165	0.165	0.165	0.165	0.165	0.165	0.165	0.165	0.165
	Surplus/deficit capacity	-1.031	-1.057	-1.083	-1.109	-1.135	-1.135	-1.135	-1.135	-1.135	-1.135	-1.187	-1.239	-1.291	-1.343	-1.395	-1.395	-1.395	-1.395	-1.395	-1.395
C&D recovery																					
	REGIONAL total existing/planned C&D recovery capacity	1.794	1.710	1.627	1.544	1.460	1.439	1.418	1.398	1.377	1.356	1.325	1.293	1.262	1.231	1.199	1.220	1.241	1.262	1.283	1.304
	Surplus/deficit capacity	0.873	0.806	0.738	0.670	0.602	0.566	0.529	0.493	0.456	0.420	0.430	0.440	0.451	0.461	0.471	0.482	0.492	0.503	0.513	0.524
Hazardous waste recycling																					
	Total existing/planned hazardous waste recycling capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Surplus/deficit capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hazardous waste recovery																					
	Total existing/planned hazardous waste recovery capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Surplus/deficit capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Non-hazardous landfill																					
	Available non-hazardous landfill capacity (excluding residues from MSW and C&I recovery)	7.275	5.444	3.641	1.870	0.131	-1.549	-3.161	-4.701	-6.169	-7.583	-8.943	-10.279	-11.592	-12.879	-14.141	-15.374	-16.604	-17.831	-19.056	-20.277
	Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'Incineration (non-specialist)'	7.275	5.396	3.541	1.714	-0.084	-1.830	-3.514	-5.136	-6.695	-8.209	-9.676	-11.123	-12.550	-13.955	-15.339	-16.697	-18.052	-19.402	-20.748	-22.089
	Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'MBT'	7.275	5.254	3.247	1.256	-0.717	-2.652	-4.551	-6.414	-8.239	-10.043	-11.826	-13.598	-15.361	-17.112	-18.853	-20.580	-22.299	-24.010	-25.712	-27.404
	Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'RDF'	7.275	5.405	3.561	1.745	-0.041	-1.774	-3.443	-5.049	-6.590	-8.084	-9.529	-10.954	-12.358	-13.740	-15.099	-16.433	-17.762	-19.088	-20.410	-21.727
	Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'treatment'	7.275	5.299	3.341	1.402	-0.516	-2.391	-4.221	-6.007	-7.748	-9.460	-11.142	-12.811	-14.466	-16.108	-17.735	-19.345	-20.948	-22.544	-24.132	-25.713
Inert landfill																					
	Available inert landfill capacity	29.297	28.813	28.340	27.877	27.425	26.983	26.557	26.146	25.751	25.371	25.007	24.653	24.310	23.977	23.655	23.343	23.041	22.750	22.469	22.199
	Available inert landfill capacity assuming all MSW and C&I recovery by 'Incineration (non-specialist)'	29.297	28.765	28.240	27.721	27.209	26.702	26.203	25.710	25.224	24.745	24.274	23.810	23.352	22.901	22.457	22.019	21.593	21.179	20.777	20.387
Hazardous landfill																					
	Available hazardous landfill capacity	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309

Note: The model does not contain data for the management of hazardous waste.

DATA_01: ARISINGS AND GROWTH RATES OF MSW, C&I AND HAZARDOUS WASTE (Million Tonnes)		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	Arisings of MSW in baseline year																					
	(1) Forecast regional level growth rate of MSW - per year (%)	3.0%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%
	(1) Forecast regional level growth rate of MSW - cumulative (%)	109%	112%	115%	118%	121%	124%	126%	129%	131%	134%	136%	139%	141%	143%	145%	147%	149%	151%	154%	156%	158%
	Total arisings of MSW using regional growth forecasts	0.853	0.875	0.897	0.919	0.942	0.966	0.985	1.005	1.025	1.045	1.066	1.082	1.098	1.115	1.131	1.148	1.166	1.183	1.201	1.219	1.237
	(1) Forecast sub-regional growth rate of MSW - per year (%)	3.0%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	0.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%
	(1) Forecast sub-regional level growth rate of MSW - cumulative (%)	110%	113%	116%	119%	122%	125%	127%	130%	132%	135%	138%	140%	142%	144%	145%	147%	149%	151%	153%	156%	158%
	Total arisings of MSW using sub-regional growth forecasts	0.860	0.882	0.904	0.926	0.949	0.973	0.993	1.012	1.033	1.053	1.074	1.090	1.107	1.123	1.129	1.146	1.163	1.181	1.198	1.216	1.235
c&i	Arisings of C&I in baseline year																					
	(1) Forecast regional level growth rate of C&I - per year (%)	3.3%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.0%	1.0%	1.0%	1.0%	1.0%
	(1) Forecast regional level growth rate of C&I - cumulative (%)	107%	109%	112%	115%	118%	121%	123%	126%	128%	131%	133%	135%	137%	139%	141%	144%	145%	146%	148%	149%	151%
	Total arisings of C&I using regional growth forecasts	1.827	1.872	1.919	1.967	2.016	2.067	2.108	2.150	2.193	2.237	2.282	2.316	2.351	2.386	2.422	2.458	2.483	2.507	2.532	2.558	2.583
	(1) Forecast sub-regional level growth rate of C&I - per year (%)	3.3%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.0%	1.0%	1.0%	1.0%	1.0%
	(1) Forecast sub-regional level growth rate of C&I - cumulative (%)	107%	109%	112%	115%	118%	121%	123%	126%	128%	131%	133%	135%	137%	139%	141%	144%	145%	146%	148%	149%	151%
	Total arisings of C&I using sub-regional growth forecasts	1.827	1.872	1.919	1.967	2.016	2.067	2.108	2.150	2.193	2.237	2.282	2.316	2.351	2.386	2.422	2.458	2.483	2.507	2.532	2.558	2.583
hazardous	Arisings of hazardous waste in baseline year																					
	(2) Forecast regional level growth rate of hazardous waste - per year (%)	3.3%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.0%	1.0%	1.0%	1.0%	1.0%
	Forecast regional level growth rate of hazardous waste - cumulative (%)	107%	109%	112%	115%	118%	121%	123%	126%	128%	131%	133%	135%	137%	139%	141%	144%	145%	146%	148%	149%	151%
	Total arisings of hazardous waste	0.105	0.108	0.111	0.113	0.116	0.119	0.122	0.124	0.126	0.129	0.132	0.134	0.136	0.138	0.140	0.142	0.143	0.145	0.146	0.148	0.149
	(2) Forecast sub-regional level growth rate of hazardous waste - per year (%)	3.3%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.0%	1.0%	1.0%	1.0%	1.0%
	Forecast sub regional level growth rate of hazardous waste - cumulative (%)	107%	109%	112%	115%	118%	121%	123%	126%	128%	131%	133%	135%	137%	139%	141%	144%	145%	146%	148%	149%	151%
	Total arisings of hazardous waste	0.105	0.108	0.111	0.113	0.116	0.119	0.122	0.124	0.126	0.129	0.132	0.134	0.136	0.138	0.140	0.142	0.143	0.145	0.146	0.148	0.149
c&d	Total managed C&D in baseline year																					
	(3) Forecast regional-level growth rate of managed C&D - per year (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Forecast regional-level growth rate of managed C&D - cumulative (%)	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
	(3) Total managed of C&D for the sub-region	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600

(1) Figures from SEERA updated waste capacity model by ERM in 2005.
(2) Baseline year of hazardous waste arisings is 2003 from EA Hazardous Waste Interrogator. www.environment-agency.gov.uk/apps/wastesurvey2/. ERM has assumed that growth in hazardous waste is equal to C&I waste.
(3) These data represent managed C&D waste in the sub-region, including all intra-regional and inter-regional movements. Growth is assumed to be zero from the orginal MEL study and updated modeted by ERM in 2005.
NOTE: C&D waste is not included in arisings because this was taken from survey data by Symonds 2001 which gave values for managed C&D waste.

Kent

Figure in blue represent data supplied by each sub-region for the new '2006 SEERA Capacity and Need Model'
Figures in orange represent managed waste that are used by the model to calculate results. These can be adjusted for different scenarios.

DATA_02: INTER REGIONAL MOVEMENTS OF MSW and C&I (Million Tonnes)		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw and c&i	Regional level imports of MSW and C&I waste into the SE region from London	1.76	1.716	1.672	1.628	1.584	1.54	1.454	1.368	1.282	1.196	1.11	1.064	1.018	0.972	0.926	0.88	0.86	0.84	0.82	0.8	0.78
	Proportion of regional MSW and C&I imports that go to the sub-region (%)	11.2%	11.2%	11.2%	11.2%	11.2%	11.2%	11.2%	11.2%	11.2%	11.2%	11.2%	11.2%	11.2%	11.2%	11.2%	11.2%	11.2%	11.2%	11.2%	11.2%	11.2%
	(1) Total imports of MSW and C&I from London into sub-region sent direct to landfill	0.198	0.193	0.188	0.183	0.178	0.173	0.163	0.154	0.144	0.134	0.125	0.119	0.114	0.109	0.104	0.099	0.097	0.094	0.092	0.090	0.088
msw	Proportion of total MSW and C&I imports that are MSW (%) - REGIONAL GROWTH FORECAST	32%	32%	32%	32%	32%	32%	32%	32%	32%	32%	32%	32%	32%	32%	32%	32%	32%	32%	32%	32%	32%
	Total imports of MSW into the sub-region from London - REGIONAL GROWTH FORECAST	0.063	0.061	0.060	0.058	0.057	0.055	0.052	0.049	0.046	0.043	0.040	0.038	0.036	0.035	0.033	0.031	0.031	0.030	0.030	0.029	0.028
	Proportion of total MSW and C&I imports that are MSW (%) - SUB-REGIONAL GROWTH FORECAST	32%	32%	32%	32%	32%	32%	32%	32%	32%	32%	32%	32%	32%	32%	32%	32%	32%	32%	32%	32%	32%
	Total imports of MSW into the sub-region from London - SUB-REGIONAL GROWTH FORECAST	0.063	0.062	0.060	0.059	0.057	0.055	0.052	0.049	0.046	0.043	0.040	0.038	0.037	0.035	0.033	0.031	0.031	0.030	0.030	0.029	0.028
c&i	Proportion of total MSW and C&I imports that are C&I (%) - REGIONAL GROWTH FORECAST	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%
	Total imports of C&I into the sub-region from London - REGIONAL GROWTH FORECAST	0.135	0.131	0.128	0.125	0.121	0.118	0.111	0.105	0.098	0.092	0.085	0.081	0.078	0.074	0.071	0.067	0.066	0.064	0.062	0.061	0.059
	Proportion of total MSW and C&I imports that are C&I (%) - SUB-REGIONAL GROWTH FORECAST	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%	68%
	Total imports of C&I into the sub-region from London - SUB-REGIONAL GROWTH FORECAST	0.134	0.131	0.128	0.124	0.121	0.118	0.111	0.104	0.098	0.091	0.085	0.081	0.078	0.074	0.071	0.067	0.066	0.064	0.063	0.061	0.059

(1) Intra-regional and inter-regional movements have been excluded for MSW and C&I waste due to self-sufficiency requirements under PPS10, except for inter-regional movements from London into the sub-region. Apportionment from Policy W3 in the Plan – downloa
Note: Only a figure is available for total combined imports of MSW and C&I waste. ERM has assumed that imports of the seperate waste streams of MSW and C&I was split according to tonnage arisings of MSW and C&I in the sub-region.

DATA_03: MANAGED WASTE USED TO GENERATE RESULTS (Million Tonnes)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	0.853	0.875	0.897	0.919	0.942	0.966	0.985	1.005	1.025	1.045	1.066	1.082	1.098	1.115	1.131	1.148	1.166	1.183	1.201	1.219	1.237
msw - imports from london that are sent direct to non-hazardous landfill	0.063	0.061	0.060	0.058	0.057	0.055	0.052	0.049	0.046	0.043	0.040	0.038	0.036	0.035	0.033	0.031	0.031	0.030	0.030	0.029	0.028
c&i	1.827	1.872	1.919	1.967	2.016	2.067	2.108	2.150	2.193	2.237	2.282	2.316	2.351	2.386	2.422	2.458	2.483	2.507	2.532	2.558	2.583
c&I - imports from london that are sent direct to non-hazardous landfill	0.135	0.131	0.128	0.125	0.121	0.118	0.111	0.105	0.098	0.092	0.085	0.081	0.078	0.074	0.071	0.067	0.066	0.064	0.062	0.061	0.059
c&d	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600	2.600
hazardous	0.105	0.108	0.111	0.113	0.116	0.119	0.122	0.124	0.126	0.129	0.132	0.134	0.136	0.138	0.140	0.142	0.143	0.145	0.146	0.148	0.149

DATA_04: TARGETS (% or Million Tonnes)		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	(1) landfill (Mt)	0.428	0.414	0.393	0.366	0.331	0.290	0.258	0.226	0.193	0.185	0.177	0.168	0.160	0.152	0.144	0.135	0.135	0.135	0.135	0.135	0.135
	recovered (%)	5	6.4	7.8	9.2	10.6	12	14.4	16.8	19.2	21.6	24	24.8	25.6	26.4	27.2	28	27.2	26.4	25.6	24.8	24
	recycled and composted (%)	30	32.0	34.0	36.0	38.0	40	42.0	44.0	46.0	48.0	50	51.0	52.0	53.0	54.0	55	56.0	57.0	58.0	59.0	60
c&i	recovered (%)	14	14.2	14.4	14.6	14.8	15	16.0	17.0	18.0	19.0	20	20.2	20.4	20.6	20.8	21	20.6	20.2	19.8	19.4	19
	recycled and composted (%)	40	42.0	44.0	46.0	48.0	50	51.0	52.0	53.0	54.0	55	56.0	57.0	58.0	59.0	60	61.0	62.0	63.0	64.0	65
c&d	recovered (%)	36	35.4	34.8	34.2	33.6	33	33.6	34.2	34.8	35.4	36	34.4	32.8	31.2	29.6	28	28.4	28.8	29.2	29.6	30
	recycled (%)	45	46.0	47.0	48.0	49.0	50	50.0	50.0	50.0	50.0	50	52.0	54.0	56.0	58.0	60	60.0	60.0	60.0	60.0	60
hazardous	landfill (%)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	recovered (%)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	recycled (%)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

(1) ERM has assumed that the LATS target allowance remains constant at the 2020 value for the years beyond 2020

DATA_05: WASTE STREAM TONNAGES TO MEET TARGETS (Million Tonnes)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025

This first section of DATA_03 calculates if there is a LATS shortfall or suplus in each year. If there is a LATS shortfall (ie insufficient allowance to landfill non-diverted waste) then the model assumes that this extra waste is recycled/composted and r

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	Total MSW to be recovered and recycled/composted to meet target	0.299	0.336	0.375	0.415	0.458	0.502	0.555	0.611	0.668	0.727	0.789	0.820	0.852	0.885	0.919	0.953	0.970	0.987	1.004	1.021	1.039
	Total MSW not-diverted by targets	0.555	0.539	0.522	0.504	0.484	0.463	0.429	0.394	0.357	0.318	0.277	0.262	0.246	0.230	0.213	0.195	0.196	0.196	0.197	0.197	0.198
	Percentage of MSW that is biodegradable (% by weight)	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68
	Total BMW not-diverted by targets	0.377	0.366	0.355	0.342	0.329	0.315	0.292	0.268	0.242	0.216	0.188	0.178	0.167	0.156	0.145	0.133	0.133	0.134	0.134	0.134	0.135
	LATS shortfall (how much extra is landfilled above LATS target)	-0.050	-0.047	-0.038	-0.023	-0.002	0.025	0.034	0.042	0.049	0.031	0.012	0.010	0.007	0.004	0.001	-0.003	-0.002	-0.002	-0.001	-0.001	-0.001
	Ratio of 'recovered' to 'recycled/composted' for target (%)	14%	17%	19%	20%	22%	23%	26%	28%	29%	31%	32%	33%	33%	33%	33%	34%	33%	32%	31%	30%	29%
	Extra MSW 'recovery' needed due to LATS shortfall	0.000	0.000	0.000	0.000	0.000	*0.006*	*0.009*	*0.012*	*0.014*	*0.010*	*0.004*	*0.003*	*0.002*	*0.001*	*0.000*	0.000	0.000	0.000	0.000	0.000	0.000
	Extra MSW 'recycling/composting' needed due to LATS shortfall	0.000	0.000	0.000	0.000	0.000	*0.019*	*0.025*	*0.030*	*0.035*	*0.021*	*0.008*	*0.006*	*0.005*	*0.003*	*0.001*	0.000	0.000	0.000	0.000	0.000	0.000

The section below in DATA_03 shows the tonnages by waste to meet targets.

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	Recycling and composting target	0.256	0.280	0.305	0.331	0.358	0.405	0.439	0.473	0.506	0.523	0.541	0.558	0.576	0.594	0.612	0.632	0.653	0.674	0.697	0.719	0.742
	Recovery target	0.043	0.056	0.070	0.085	0.100	0.122	0.151	0.180	0.211	0.235	0.260	0.271	0.284	0.296	0.308	0.322	0.317	0.312	0.307	0.302	0.297
	Non-hazardous landfill	0.555	0.539	0.522	0.504	0.484	0.439	0.395	0.352	0.307	0.287	0.265	0.252	0.239	0.225	0.212	0.195	0.196	0.196	0.197	0.197	0.198
	CHECK COUNTER (should be zero)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
c&i	Recycling and composting target	0.731	0.786	0.844	0.905	0.968	1.033	1.075	1.118	1.162	1.208	1.255	1.297	1.340	1.384	1.429	1.475	1.514	1.555	1.595	1.637	1.679
	Recovery target	0.256	0.266	0.276	0.287	0.298	0.310	0.337	0.366	0.395	0.425	0.456	0.468	0.480	0.491	0.504	0.516	0.511	0.506	0.501	0.496	0.491
	Non-hazardous landfill	0.840	0.820	0.798	0.775	0.750	0.723	0.696	0.667	0.636	0.604	0.570	0.551	0.531	0.511	0.489	0.467	0.457	0.446	0.436	0.425	0.413
	CHECK COUNTER (should be zero)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
c&d	Recycling target	1.170	1.196	1.222	1.248	1.274	1.300	1.300	1.300	1.300	1.300	1.300	1.352	1.404	1.456	1.508	1.560	1.560	1.560	1.560	1.560	1.560
	Recovery target	0.936	0.920	0.905	0.889	0.874	0.858	0.874	0.889	0.905	0.920	0.936	0.894	0.853	0.811	0.770	0.728	0.738	0.749	0.759	0.770	0.780
	Inert landfill	0.494	0.484	0.473	0.463	0.452	0.442	0.426	0.411	0.395	0.380	0.364	0.354	0.343	0.333	0.322	0.312	0.302	0.291	0.281	0.270	0.260
	CHECK COUNTER (should be zero)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
hazardous	Hazardous waste	0.105	0.108	0.111	0.113	0.116	0.119	0.122	0.124	0.126	0.129	0.132	0.134	0.136	0.138	0.140	0.142	0.143	0.145	0.146	0.148	0.149

DATA_06: TOTAL WASTE TONNAGES TO MEET TARGETS (Million Tonnes)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
MSW and C&I recycling and composting target	0.987	1.066	1.149	1.236	1.326	1.439	1.514	1.591	1.668	1.731	1.796	1.855	1.916	1.977	2.040	2.106	2.167	2.229	2.292	2.356	2.422
C&D recycling target	1.170	1.196	1.222	1.248	1.274	1.300	1.300	1.300	1.300	1.300	1.300	1.352	1.404	1.456	1.508	1.560	1.560	1.560	1.560	1.560	1.560
MSW and C&I recovery target	0.298	0.322	0.346	0.372	0.398	0.432	0.488	0.546	0.606	0.660	0.716	0.739	0.763	0.787	0.812	0.838	0.828	0.819	0.809	0.799	0.788
C&D recovery target	0.936	0.920	0.905	0.889	0.874	0.858	0.874	0.889	0.905	0.920	0.936	0.894	0.853	0.811	0.770	0.728	0.738	0.749	0.759	0.770	0.780
Non-hazardous landfill	1.395	1.359	1.320	1.279	1.234	1.162	1.091	1.018	0.943	0.891	0.836	0.803	0.770	0.736	0.701	0.662	0.653	0.643	0.633	0.622	0.611
Inert landfill	0.494	0.484	0.473	0.463	0.452	0.442	0.426	0.411	0.395	0.380	0.364	0.354	0.343	0.333	0.322	0.312	0.302	0.291	0.281	0.270	0.260
Hazardous waste	0.105	0.108	0.111	0.113	0.116	0.119	0.122	0.124	0.126	0.129	0.132	0.134	0.136	0.138	0.140	0.142	0.143	0.145	0.146	0.148	0.149

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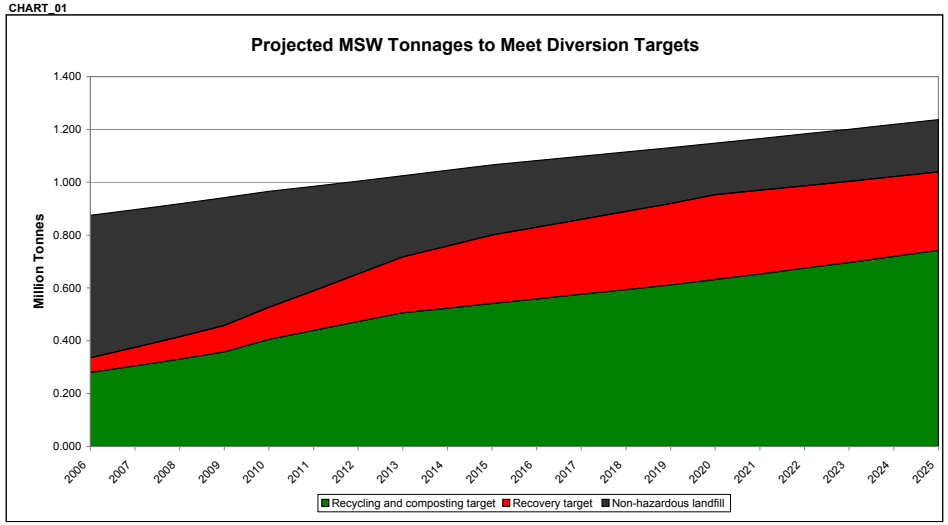
CHART_01



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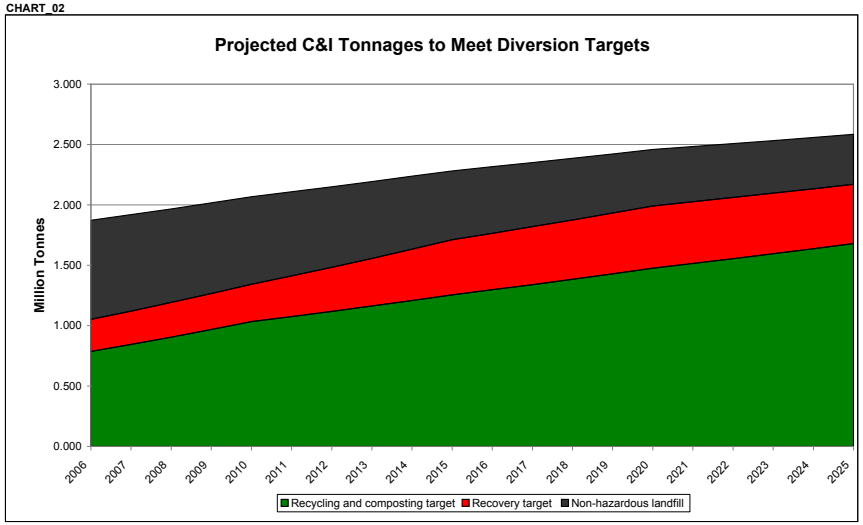

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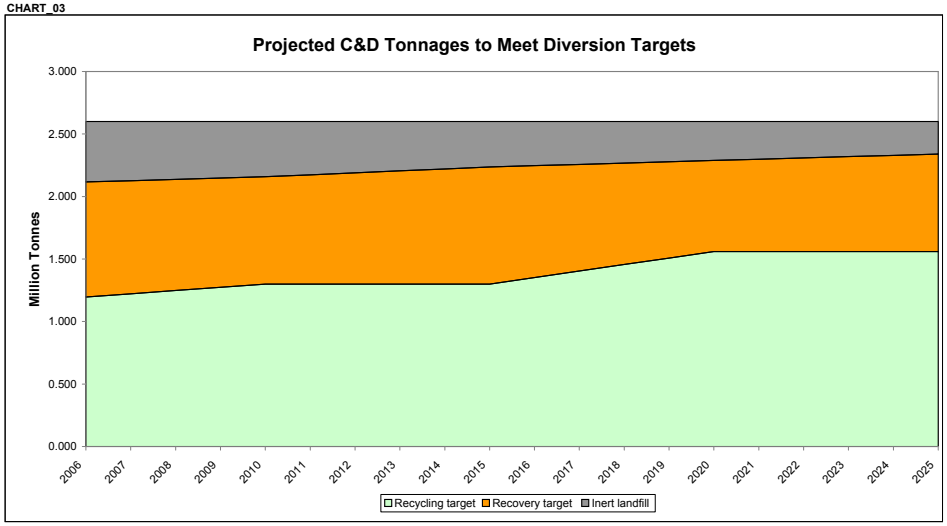

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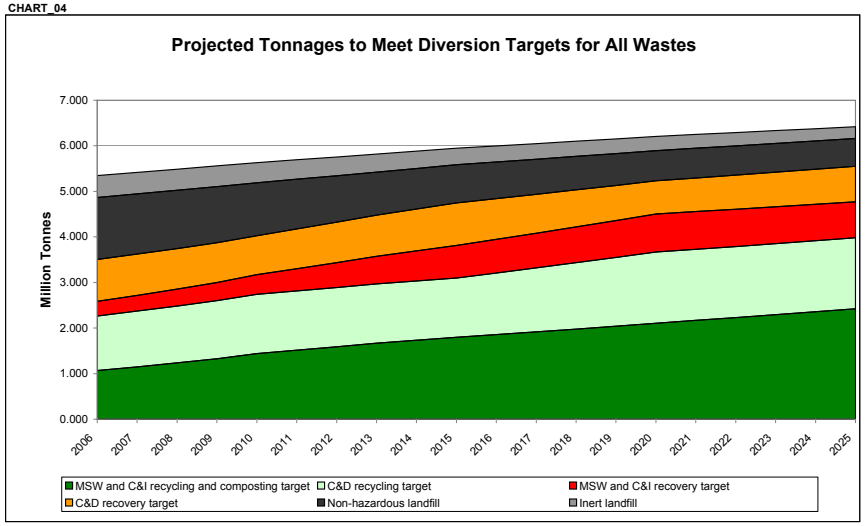

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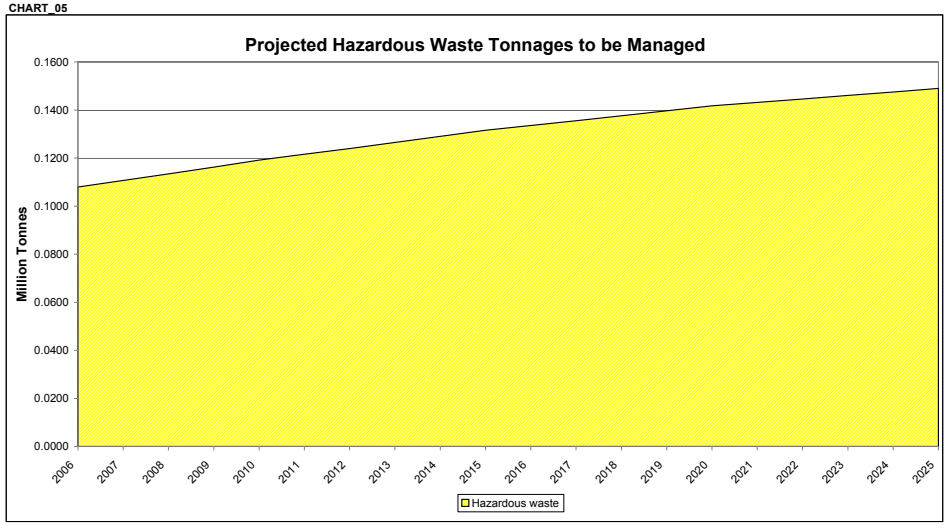
CHART_05



DATA_07: EXISTING/PLANNED CAPACITY FOR RECYCLING, RECOVERY AND LANDFILLING AND TOTAL WASTE TONNAGES TO EACH DISPOSAL ROUTE (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
MSW and C&I recovery																					
MSW and C&I incineration (non-specialist)	0.503	0.503	0.503	0.503	0.503	0.503	0.503	0.503	0.503	0.503	0.503	0.503	0.503	0.503	0.503	0.503	0.503	0.503	0.503	0.503	0.503
MSW and C&I treatment	0.276	0.276	0.276	0.276	0.276	0.276	0.276	0.276	0.276	0.276	0.276	0.276	0.276	0.276	0.276	0.276	0.276	0.276	0.276	0.276	0.276
Total existing/planned MSW and C&I recovery capacity	0.779	0.779	0.779	0.779	0.779	0.779	0.779	0.779	0.779	0.779	0.779	0.779	0.779	0.779	0.779	0.779	0.779	0.779	0.779	0.779	0.779
Total MSW waste required to meet target	0.043	0.056	0.070	0.085	0.100	0.122	0.151	0.180	0.211	0.235	0.260	0.271	0.284	0.296	0.308	0.322	0.317	0.312	0.307	0.302	0.297
Total C&I waste required to meet target	0.256	0.266	0.276	0.287	0.298	0.310	0.337	0.366	0.395	0.425	0.456	0.468	0.480	0.491	0.504	0.516	0.511	0.506	0.501	0.496	0.491
Surplus/deficit capacity	0.481	0.457	0.433	0.408	0.381	0.348	0.292	0.233	0.173	0.119	0.063	0.040	0.016	-0.008	-0.033	-0.058	-0.049	-0.040	-0.030	-0.019	-0.008
MSW and C&I recycling and composting																					
MSW and C&I recycling	0.399	0.399	0.399	0.399	0.399	0.399	0.399	0.399	0.399	0.399	0.399	0.399	0.399	0.399	0.399	0.399	0.399	0.399	0.399	0.399	0.399
MSW and C&I transfer	2.860	2.860	2.860	2.860	2.860	2.860	2.860	2.860	2.860	2.860	2.860	2.860	2.860	2.860	2.860	2.860	2.860	2.860	2.860	2.860	2.860
Total existing/planned MSW and C&I composting capacity	0.206	0.206	0.206	0.206	0.206	0.206	0.206	0.206	0.206	0.206	0.206	0.206	0.206	0.206	0.206	0.206	0.206	0.206	0.206	0.206	0.206
(1) Total existing/planned MSW and C&I recycling and composting capacity (Baseline: 20% of transfer capacity delivers recycling)	1.177	1.177	1.177	1.177	1.177	1.177	1.177	1.177	1.177	1.177	1.177	1.177	1.177	1.177	1.177	1.177	1.177	1.177	1.177	1.177	1.177
(2) Total existing/planned MSW and C&I recycling and composting capacity (Sensitivity: 5% of transfer capacity delivers recycling)	0.748	0.748	0.748	0.748	0.748	0.748	0.748	0.748	0.748	0.748	0.748	0.748	0.748	0.748	0.748	0.748	0.748	0.748	0.748	0.748	0.748
Total MSW waste required to meet recycling and composting target	0.256	0.280	0.305	0.331	0.358	0.405	0.439	0.473	0.506	0.523	0.541	0.558	0.576	0.594	0.612	0.632	0.653	0.674	0.697	0.719	0.742
Total C&I waste required to meet recycling and composting target	0.731	0.786	0.844	0.905	0.968	1.033	1.075	1.118	1.162	1.208	1.255	1.297	1.340	1.384	1.429	1.475	1.514	1.555	1.595	1.637	1.679
Surplus/deficit capacity (Baseline: 20% of transfer capacity delivers recycling)	0.191	0.111	0.028	-0.058	-0.149	-0.261	-0.337	-0.413	-0.491	-0.554	-0.619	-0.678	-0.739	-0.800	-0.863	-0.929	-0.990	-1.052	-1.115	-1.179	-1.244
Surplus/deficit capacity (Sensitivity: 5% of transfer capacity delivers recycling)	-0.239	-0.318	-0.401	-0.488	-0.578	-0.691	-0.766	-0.842	-0.920	-0.983	-1.048	-1.107	-1.168	-1.229	-1.292	-1.358	-1.419	-1.481	-1.544	-1.608	-1.673
C&D recycling																					
(3) Total existing/planned C&D recycling capacity	0.165	0.165	0.165	0.165	0.165	0.165	0.165	0.165	0.165	0.165	0.165	0.165	0.165	0.165	0.165	0.165	0.165	0.165	0.165	0.165	0.165
Total waste required to meet C&D recycling target	1.170	1.196	1.222	1.248	1.274	1.300	1.300	1.300	1.300	1.300	1.300	1.352	1.404	1.456	1.508	1.560	1.560	1.560	1.560	1.560	1.560
Surplus/deficit capacity	-1.005	-1.031	-1.057	-1.083	-1.109	-1.135	-1.135	-1.135	-1.135	-1.135	-1.135	-1.187	-1.239	-1.291	-1.343	-1.395	-1.395	-1.395	-1.395	-1.395	-1.395
C&D recovery																					
REGIONAL total existing/planned C&D recovery capacity	1.877	1.794	1.710	1.627	1.544	1.460	1.439	1.418	1.398	1.377	1.356	1.325	1.293	1.262	1.231	1.199	1.220	1.241	1.262	1.283	1.304
Sub-regional total waste required to meet C&D recovery target	0.936	0.920	0.905	0.889	0.874	0.858	0.874	0.889	0.905	0.920	0.936	0.894	0.853	0.811	0.770	0.728	0.738	0.749	0.759	0.770	0.780
Surplus/deficit capacity	0.941	0.873	0.806	0.738	0.670	0.602	0.566	0.529	0.493	0.456	0.420	0.430	0.440	0.451	0.461	0.471	0.482	0.492	0.503	0.513	0.524
Hazardous waste recycling																					
Total existing/planned hazardous waste recycling capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total hazardous waste to be recycled	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Surplus/deficit capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hazardous waste recovery																					
Total existing/planned hazardous waste recovery capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total hazardous waste to be recovered	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Surplus/deficit capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Non-hazardous landfill																					
Available non-hazardous landfill capacity (excluding residues from MSW and C&I recovery)		7.275	5.444	3.641	1.870	0.131	-1.549	-3.161	-4.701	-6.169	-7.583	-8.943	-10.279	-11.592	-12.879	-14.141	-15.374	-16.604	-17.831	-19.056	-20.277
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'Incineration (non-specialist)'		7.275	5.396	3.541	1.714	-0.084	-1.830	-3.514	-5.136	-6.695	-8.209	-9.676	-11.123	-12.550	-13.955	-15.339	-16.697	-18.052	-19.402	-20.748	-22.089
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'MBT'		7.275	5.254	3.247	1.256	-0.717	-2.652	-4.551	-6.414	-8.239	-10.043	-11.826	-13.598	-15.361	-17.112	-18.853	-20.580	-22.299	-24.010	-25.712	-27.404
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'RDF'		7.275	5.405	3.561	1.745	-0.041	-1.774	-3.443	-5.049	-6.590	-8.084	-9.529	-10.954	-12.358	-13.740	-15.099	-16.433	-17.762	-19.088	-20.410	-21.727
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'treatment'		7.275	5.299	3.341	1.402	-0.516	-2.391	-4.221	-6.007	-7.748	-9.460	-11.142	-12.811	-14.466	-16.108	-17.735	-19.345	-20.948	-22.544	-24.132	-25.713
Total MSW and C&I waste sent direct to non-hazardous landfill		1.359	1.320	1.279	1.234	1.162	1.091	1.018	0.943	0.891	0.836	0.803	0.770	0.736	0.701	0.662	0.653	0.643	0.633	0.622	0.611
Inert landfill																					
Available inert landfill capacity		29.297	28.813	28.340	27.877	27.425	26.983	26.557	26.146	25.751	25.371	25.007	24.653	24.310	23.977	23.655	23.343	23.041	22.750	22.469	22.199
Available inert landfill capacity assuming all MSW and C&I recovery by 'Incineration (non-specialist)'		29.297	28.765	28.240	27.721	27.209	26.702	26.203	25.710	25.224	24.745	24.274	23.810	23.352	22.901	22.457	22.019	21.593	21.179	20.777	20.387
Total C&D waste sent direct to inert landfill	0.494	0.484	0.473	0.463	0.452	0.442	0.426	0.411	0.395	0.380	0.364	0.354	0.343	0.333	0.322	0.312	0.302	0.291	0.281	0.270	0.260
Hazardous landfill																					
Available hazardous landfill capacity	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309	3.309
Total hazardous waste sent direct to hazardous landfill	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Other																					
Metal/ELV facility	0.973	0.973	0.973	0.973	0.973	0.973	0.973	0.973	0.973	0.973	0.973	0.973	0.973	0.973	0.973	0.973	0.973	0.973	0.973	0.973	0.973
Ignored	1.854	1.854	1.854	1.854	1.854	1.854	1.854	1.854	1.854	1.854	1.854	1.854	1.854	1.854	1.854	1.854	1.854	1.854	1.854	1.854	1.854
Closed	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003

(1) ERM has assumed that 20% of the total 'transfer' capacity will deliver recycling capacity
(2) ERM has assumed that 5% of the total 'transfer' capacity will deliver recycling capacity
(3) Data for C&D recovery for landfill cover for the SE Region were sourced from the original MEL model, which sourced the data from Symonds (2001)
Note: The capacity model developed by ERM for this study does not include the capacity provided in the 'Others' group in its calculations because these are not relevant to the management of MSW, C&I and C&D. These data are included for the purposes of completeness.

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DATA_08: RESIDUE RATES (%)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Recovery residues (% by weight)																					
MSW and C&I incineration (non-specialist) - bottom ash	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
MSW and C&I incineration (non-specialist) - fly ash	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
MSW and C&I to MBT	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59
MSW and C&I to RDF	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
MSW and C&I treatment - non-hazardous	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45
MSW and C&I treatment - hazardous	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Hazardous waste recovery	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Recycling residues (% by weight)																					
MSW and C&I recycling	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
(2) MSW and C&I transfer	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
MSW and C&I composting	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
C&D recycling	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Hazardous waste recycling	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Other																					
Metal/ELV facility	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Ignored	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Closed	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Note: The capacity model developed by ERM for this study does not include the capacity provided in the 'Others' group in its calculations because these are not relevant to the management of MSW, C&I and C&D. These data are included for the purposes of completeness.

DATA_09: TOTAL RESIDUE (Million Tonnes)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Recovery residues (of waste managed):																					
MSW and C&I incineration (non-specialist) - bottom ash	0.090	0.097	0.104	0.112	0.119	0.129	0.146	0.164	0.182	0.198	0.215	0.222	0.229	0.236	0.244	0.251	0.249	0.246	0.243	0.240	0.236
MSW and C&I incineration (non-specialist) - fly ash	0.009	0.010	0.010	0.011	0.012	0.013	0.015	0.016	0.018	0.020	0.021	0.022	0.023	0.024	0.024	0.025	0.025	0.025	0.024	0.024	0.024
MSW and C&I to MBT	0.176	0.190	0.204	0.219	0.235	0.255	0.288	0.322	0.358	0.390	0.422	0.436	0.450	0.464	0.479	0.494	0.489	0.483	0.477	0.471	0.465
MSW and C&I to RDF	0.036	0.039	0.042	0.045	0.048	0.052	0.059	0.066	0.073	0.079	0.086	0.089	0.092	0.094	0.097	0.101	0.099	0.098	0.097	0.096	0.095
MSW and C&I treatment - non-hazardous	0.134	0.145	0.156	0.167	0.179	0.194	0.220	0.246	0.273	0.297	0.322	0.333	0.343	0.354	0.365	0.377	0.373	0.368	0.364	0.359	0.354
MSW and C&I treatment - hazardous	0.015	0.016	0.017	0.019	0.020	0.022	0.024	0.027	0.030	0.033	0.036	0.037	0.038	0.039	0.041	0.042	0.041	0.041	0.040	0.040	0.039
Hazardous waste recovery	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Recycling residues (of waste managed):																					
MSW and C&I recycling and composting	0.148	0.160	0.172	0.185	0.199	0.216	0.227	0.239	0.250	0.260	0.269	0.278	0.287	0.297	0.306	0.316	0.325	0.334	0.344	0.353	0.363
C&D recycling	0.117	0.120	0.122	0.125	0.127	0.130	0.130	0.130	0.130	0.130	0.130	0.135	0.140	0.146	0.151	0.156	0.156	0.156	0.156	0.156	0.156
Hazardous waste recycling	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Note: All residues are calculated on the amount of waste arising not on the maount of capacity available. This is complaince with the self-sufficiency requirements of PPS10.

DATA_10: TOTAL MSW AND C&I RESIDUE FROM RECYCLING SENT TO NON-HAZARDOUS LANDFILL (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Total MSW and C&I recycling and composting residue sent to non-hazardous landfill	0.265	0.280	0.295	0.310	0.326	0.346	0.357	0.369	0.380	0.390	0.399	0.413	0.428	0.442	0.457	0.472	0.481	0.490	0.500	0.509	0.519

DATA_11: TOTAL MSW AND C&I RESIDUE FROM RECOVERY SENT TO NON-HAZARDOUS LANDFILL AND C&D RECYCLING (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
SCENARIO 1 - Assumes all recovery is by 'Non-specialist incineration' (based on total recovery capacity)																					
(1) Total MSW and C&I residue sent to non-hazardous landfill assuming all MSW and C&I recovery by 'Non-specialist incineration'	0.045	0.048	0.052	0.056	0.060	0.065	0.073	0.082	0.091	0.099	0.107	0.111	0.114	0.118	0.122	0.126	0.124	0.123	0.121	0.120	0.118
(1) Total MSW and C&I residue sent to inert landfill assuming all MSW and C&I recovery by 'Non-specialist incineration'	0.045	0.048	0.052	0.056	0.060	0.065	0.073	0.082	0.091	0.099	0.107	0.111	0.114	0.118	0.122	0.126	0.124	0.123	0.121	0.120	0.118
SCENARIO 2 - Assumes all recovery is by 'MBT' (based on total recovery capacity)																					
Total MSW and C&I residue sent to non-hazardous landfill	0.176	0.190	0.204	0.219	0.235	0.255	0.288	0.322	0.358	0.390	0.422	0.436	0.450	0.464	0.479	0.494	0.489	0.483	0.477	0.471	0.465
SCENARIO 3 - Assumes all recovery is by 'RDF' (based on total recovery capacity)																					
Total MSW and C&I residue sent to non-hazardous landfill	0.036	0.039	0.042	0.045	0.048	0.052	0.059	0.066	0.073	0.079	0.086	0.089	0.092	0.094	0.097	0.101	0.099	0.098	0.097	0.096	0.095
SCENARIO 4 - Assumes all recovery is by 'treatment' (based on total recovery capacity)																					
Total MSW and C&I residue sent to non-hazardous landfill	0.134	0.145	0.156	0.167	0.179	0.194	0.220	0.246	0.273	0.297	0.322	0.333	0.343	0.354	0.365	0.377	0.373	0.368	0.364	0.359	0.354

(1) It was assumed that 50% of residue from 'non-specialist incineration' is sent to non-hazardous landfill and 50% is sent to inert landfill. In the original model assumptions developed MEL 50% was assumed to go to C&D recycling, rather than to inert landfi

DATA_12: TONNAGES OF C&D REUSED ON NON-HAZARDOUS AND INERT LANDFILL (Million Tonnes)

(1) C&D reused on landfill sites	39 %
(1) C&D reused on exempt sites	61 %
(1) C&D reused on landfill sites sent to 'non-haz landfill'	30 %
(1) C&D reused on landfill sites sent to 'inert landfill'	70 %

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
c&d	Total C&D reused on non-hazardous landfill	0.109	0.107	0.105	0.103	0.102	0.100	0.102	0.103	0.105	0.107	0.109	0.104	0.099	0.094	0.090	0.085	0.086	0.087	0.088	0.090	0.091
	Total reused C&D on inert landfill	0.254	0.250	0.246	0.241	0.237	0.233	0.237	0.241	0.246	0.250	0.254	0.243	0.232	0.220	0.209	0.198	0.200	0.203	0.206	0.209	0.212

(1) C&D reuse rates based on original model assumptions developed MEL
NOTE: C&D reuse on inert and non-hazardous landfill is not included within the charts because it has been assumed that data supplied by each sub-region has accounted for C&D reuse as an engineering material.

DATA_13: TOTAL MSW AND C&I RESIDUE FROM RECYCLING SENT TO HAZARDOUS LANDFILL (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Total MSW and C&I recycling and composting residue sent to hazardous landfill	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

DATA_14: TOTAL MSW AND C&I RESIDUE FROM RECOVERY SENT TO HAZARDOUS LANDFILL (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
SCENARIO 1 - Assumes all recovery is by 'Non-specialist incineration' (based on total recovery capacity)																					
Total MSW and C&I residue sent to hazardous landfill assuming all MSW and C&I recovery by 'Non-specialist incineration'	0.009	0.010	0.010	0.011	0.012	0.013	0.015	0.016	0.018	0.020	0.021	0.022	0.023	0.024	0.024	0.025	0.025	0.025	0.024	0.024	0.024
SCENARIO 2 - Assumes all recovery is by 'MBT' (based on total recovery capacity)																					
Total MSW and C&I residue sent to hazardous landfill	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SCENARIO 3 - Assumes all recovery is by 'RDF' (based on total recovery capacity)																					
Total MSW and C&I residue sent to hazardous landfill	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SCENARIO 4 - Assumes all recovery is by 'treatment' (based on total recovery capacity)																					
Total MSW and C&I residue sent to hazardous landfill	0.015	0.016	0.017	0.019	0.020	0.022	0.024	0.027	0.030	0.033	0.036	0.037	0.038	0.039	0.041	0.042	0.041	0.041	0.040	0.040	0.039

NOTE: This element of the model is redundant. There is currently no hazardous waste capacity figures to generate a chart of managed waste versus available capacity.

DATA_15: TOTAL HAZARDOUS WASTE RESIDUE FROM RECOVERY AND RECYCLING SENT TO HAZARDOUS LANDFILL (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Total hazardous waste recycling and recovery residue sent to hazardous landfill	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Kent

CHART_06

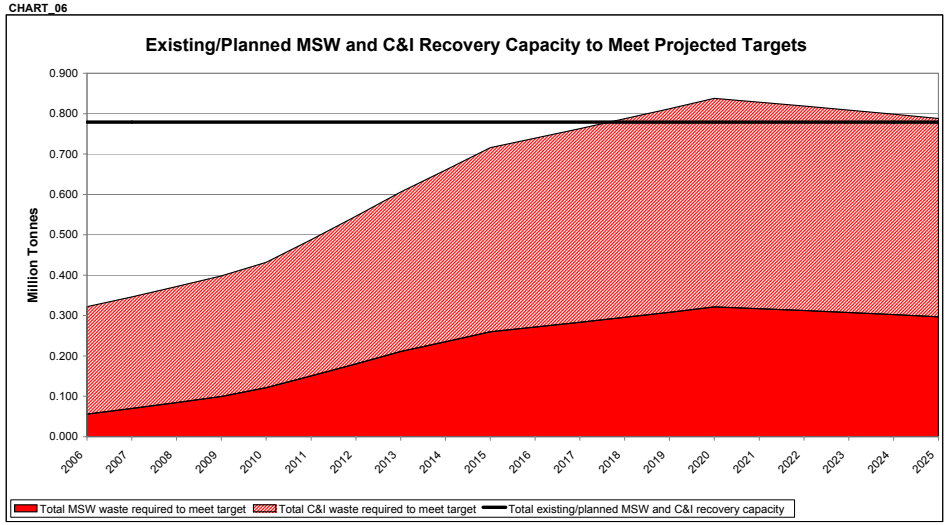


CHART_07

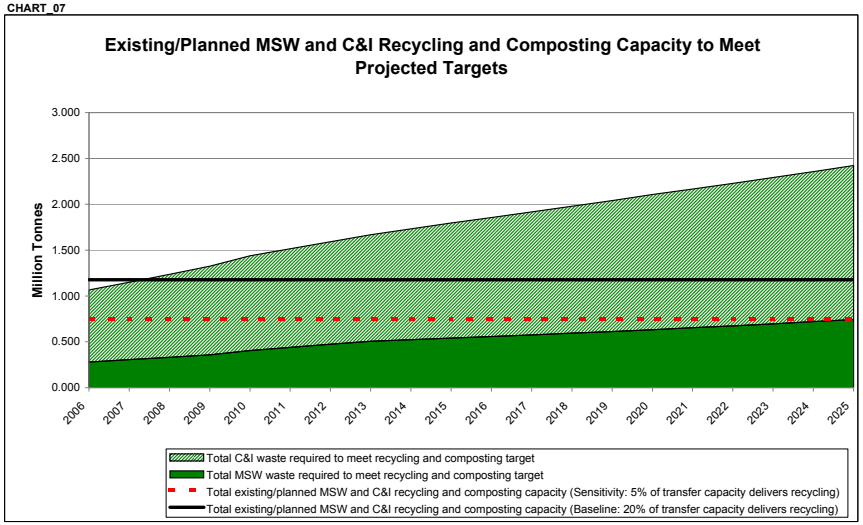
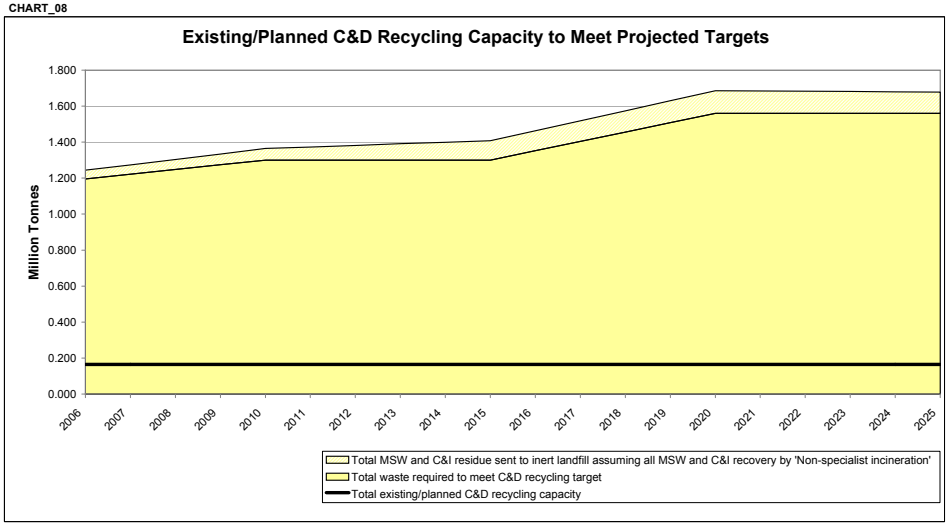


CHART_08



Kent

CHART_09

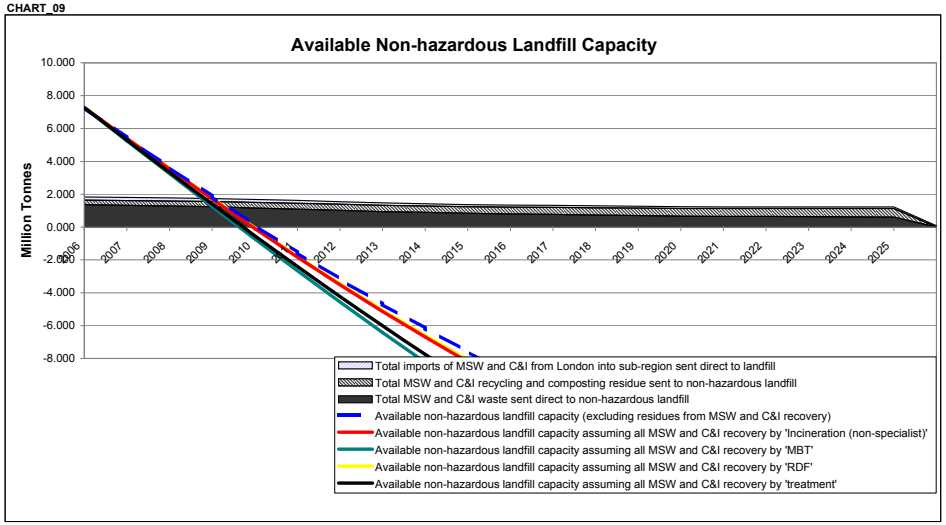
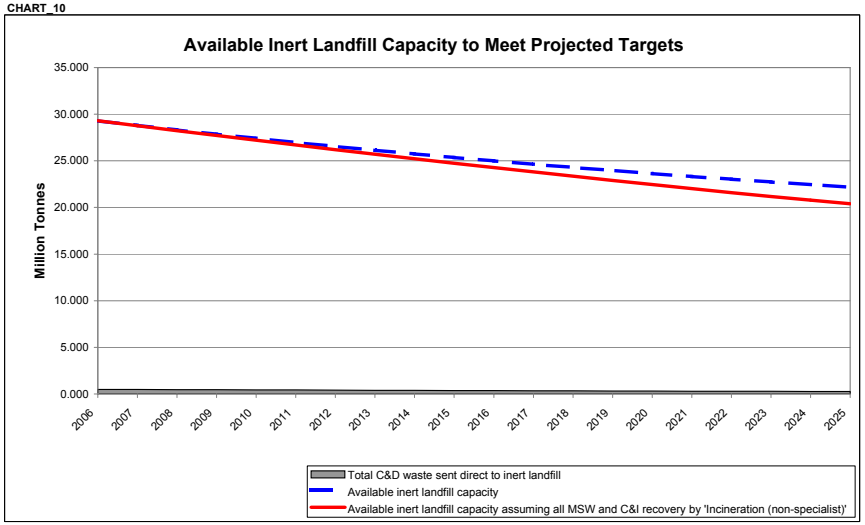


CHART_10



NOTE: The graph assumes that the baseline capacity for non-hazardous landfill has accounted for C&D reuse as a landfill engineering material.

Medway

SUMMARY DATA AND RESULTS FOR MEDWAY

MANAGED WASTE USED TO GENERATE RESULTS (Million Tonnes)	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	0.137	0.141	0.144	0.148	0.152	0.155	0.158	0.161	0.164	0.167	0.170	0.173	0.175	0.178	0.180	0.183	0.186	0.189	0.191	0.194
msw - imports from london that are sent direct to non-hazardous landfill	0.010	0.010	0.009	0.009	0.009	0.008	0.008	0.007	0.007	0.006	0.006	0.006	0.006	0.005	0.005	0.005	0.005	0.005	0.005	0.004
c&i	0.096	0.099	0.101	0.104	0.106	0.108	0.111	0.113	0.115	0.117	0.119	0.121	0.123	0.125	0.126	0.128	0.129	0.130	0.132	0.133
c&I - imports from london that are sent direct to non-hazardous landfill	0.007	0.007	0.007	0.006	0.006	0.006	0.005	0.005	0.005	0.004	0.004	0.004	0.004	0.004	0.004	0.003	0.003	0.003	0.003	0.003
c&d	0.332	0.332	0.332	0.332	0.332	0.332	0.332	0.332	0.332	0.332	0.332	0.332	0.332	0.332	0.332	0.332	0.332	0.332	0.332	0.332
hazardous	0.016	0.016	0.016	0.017	0.017	0.018	0.018	0.018	0.019	0.019	0.019	0.020	0.020	0.020	0.021	0.021	0.021	0.021	0.021	0.022

WASTE STREAM TONNAGES TO MEET TARGETS (Million Tonnes)		2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	LATS shortfall (how much extra is landfilled above LATS target)	-0.020	-0.018	-0.014	-0.009	-0.003	-0.001	*0.001*	*0.003*	*0.000*	-0.002	-0.003	-0.003	-0.003	-0.003	-0.004	-0.004	-0.004	-0.004	-0.003	-0.003
	Recycling and composting target	0.044	0.048	0.052	0.056	0.061	0.065	0.070	0.076	0.079	0.084	0.087	0.090	0.093	0.096	0.099	0.103	0.106	0.109	0.113	0.117
	Recovery target	0.009	0.011	0.013	0.016	0.018	0.022	0.027	0.032	0.036	0.040	0.042	0.044	0.046	0.048	0.051	0.050	0.049	0.048	0.047	0.047
	Non-hazardous landfill	0.085	0.082	0.079	0.076	0.073	0.067	0.061	0.053	0.050	0.044	0.041	0.039	0.036	0.033	0.031	0.031	0.031	0.031	0.031	0.031
c&i	Recycling and composting target	0.040	0.043	0.047	0.050	0.053	0.055	0.058	0.060	0.062	0.065	0.067	0.069	0.071	0.074	0.076	0.078	0.080	0.082	0.084	0.086
	Recovery target	0.014	0.014	0.015	0.015	0.016	0.017	0.019	0.020	0.022	0.023	0.024	0.025	0.025	0.026	0.027	0.026	0.026	0.026	0.026	0.025
	Non-hazardous landfill	0.042	0.041	0.040	0.039	0.037	0.036	0.034	0.033	0.031	0.029	0.028	0.027	0.026	0.025	0.024	0.023	0.023	0.022	0.022	0.021
c&d	Recycling target	0.153	0.156	0.159	0.162	0.166	0.166	0.166	0.166	0.166	0.166	0.172	0.179	0.186	0.192	0.199	0.199	0.199	0.199	0.199	0.199
	Recovery target	0.117	0.115	0.113	0.111	0.109	0.111	0.113	0.115	0.117	0.119	0.114	0.109	0.103	0.098	0.093	0.094	0.096	0.097	0.098	0.099
	Inert landfill	0.062	0.060	0.059	0.058	0.056	0.054	0.052	0.050	0.048	0.046	0.045	0.044	0.042	0.041	0.040	0.038	0.037	0.036	0.034	0.033
hazardous	Hazardous waste	0.016	0.016	0.016	0.017	0.017	0.018	0.018	0.018	0.019	0.019	0.019	0.020	0.020	0.020	0.021	0.021	0.021	0.021	0.021	0.022

Note: If there is a LATS shortfall, denoted by a positive number, (ie insufficient allowance to landfill non-diverted waste) then the model assumes that this extra waste is recycled/composted and recovered at the same ratio as the regional targets for recycling/composting and recovery for that year.

EXISTING/PLANNED CAPACITY FOR RECYCLING, RECOVERY AND LANDFILLING AND TOTAL WASTE TONNAGES TO EACH DISPOSAL ROUTE (Million Tonnes)		2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
MSW and C&I recovery																					
	Total existing/planned MSW and C&I recovery capacity	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
	Surplus/deficit capacity	-0.017	-0.020	-0.023	-0.026	-0.029	-0.035	-0.041	-0.047	-0.052	-0.059	-0.061	-0.064	-0.067	-0.069	-0.072	-0.071	-0.070	-0.069	-0.068	-0.067
MSW and C&I recycling and composting																					
	Total existing/planned MSW and C&I recycling and composting capacity (Baseline: 20% of transfer capacity delivers recycling)	0.291	0.291	0.291	0.291	0.291	0.291	0.291	0.291	0.291	0.291	0.291	0.291	0.291	0.291	0.291	0.291	0.291	0.291	0.291	0.291
	Total existing/planned MSW and C&I recycling and composting capacity (Sensitivity: 5% of transfer capacity delivers recycling)	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073
	Surplus/deficit capacity (Baseline: 20% of transfer capacity delivers recycling)	0.207	0.200	0.193	0.185	0.178	0.171	0.164	0.155	0.150	0.143	0.138	0.133	0.127	0.122	0.116	0.111	0.105	0.100	0.094	0.088
	Surplus/deficit capacity (Sensitivity: 5% of transfer capacity delivers recycling)	-0.012	-0.018	-0.026	-0.033	-0.041	-0.047	-0.055	-0.063	-0.068	-0.075	-0.081	-0.086	-0.091	-0.097	-0.102	-0.108	-0.113	-0.119	-0.124	-0.130
C&D recycling																					
	Total existing/planned C&D recycling capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Surplus/deficit capacity	-0.153	-0.156	-0.159	-0.162	-0.166	-0.166	-0.166	-0.166	-0.166	-0.166	-0.172	-0.179	-0.186	-0.192	-0.199	-0.199	-0.199	-0.199	-0.199	-0.199
C&D recovery																					
	REGIONAL total existing/planned C&D recovery capacity	1.794	1.710	1.627	1.544	1.460	1.439	1.418	1.398	1.377	1.356	1.325	1.293	1.262	1.231	1.199	1.220	1.241	1.262	1.283	1.304
	Surplus/deficit capacity	1.676	1.595	1.514	1.432	1.351	1.328	1.305	1.282	1.259	1.236	1.210	1.184	1.158	1.133	1.107	1.126	1.146	1.165	1.185	1.204
Hazardous waste recycling																					
	Total existing/planned hazardous waste recycling capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Surplus/deficit capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hazardous waste recovery																					
	Total existing/planned hazardous waste recovery capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Surplus/deficit capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Non-hazardous landfill																					
	Available non-hazardous landfill capacity (excluding residues from MSW and C&I recovery)	0.475	0.304	0.135	-0.030	-0.193	-0.351	-0.503	-0.647	-0.782	-0.912	-1.035	-1.155	-1.272	-1.387	-1.500	-1.609	-1.719	-1.828	-1.938	-2.048
	Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'Incineration (non-specialist)'	0.475	0.300	0.128	-0.042	-0.209	-0.372	-0.530	-0.681	-0.824	-0.963	-1.095	-1.225	-1.353	-1.478	-1.602	-1.723	-1.844	-1.965	-2.086	-2.207
	Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'MBT'	0.475	0.290	0.107	-0.075	-0.256	-0.434	-0.610	-0.781	-0.947	-1.110	-1.270	-1.430	-1.588	-1.745	-1.901	-2.056	-2.210	-2.364	-2.518	-2.671
	Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'RDF'	0.475	0.301	0.129	-0.039	-0.205	-0.368	-0.525	-0.674	-0.816	-0.953	-1.083	-1.211	-1.337	-1.460	-1.581	-1.700	-1.819	-1.937	-2.056	-2.175
	Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'treatment'	0.475	0.293	0.114	-0.064	-0.241	-0.415	-0.584	-0.749	-0.908	-1.063	-1.215	-1.364	-1.513	-1.660	-1.806	-1.950	-2.094	-2.237	-2.380	-2.523
Inert landfill																					
	Available inert landfill capacity	0.000	-0.062	-0.122	-0.181	-0.239	-0.295	-0.350	-0.402	-0.452	-0.501	-0.547	-0.592	-0.636	-0.678	-0.720	-0.759	-0.798	-0.835	-0.871	-0.905
	Available inert landfill capacity assuming all MSW and C&I recovery by 'Incineration (non-specialist)'	0.000	-0.065	-0.129	-0.192	-0.255	-0.316	-0.377	-0.436	-0.494	-0.551	-0.607	-0.662	-0.716	-0.769	-0.822	-0.873	-0.923	-0.971	-1.018	-1.064
Hazardous landfill																					
	Available hazardous landfill capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Note: The model does not contain data for the management of hazardous waste.

DATA_01: ARISINGS AND GROWTH RATES OF MSW, C&I AND HAZARDOUS WASTE (Million Tonnes)		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	Arisings of MSW in baseline year																					
	(1) Forecast regional level growth rate of MSW - per year (%)	3.0%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%
	(1) Forecast regional level growth rate of MSW - cumulative (%)	106%	109%	111%	114%	117%	120%	122%	125%	127%	130%	133%	135%	137%	139%	141%	143%	145%	147%	149%	152%	154%
	Total arisings of MSW using regional growth forecasts	0.134	0.137	0.141	0.144	0.148	0.152	0.155	0.158	0.161	0.164	0.167	0.170	0.173	0.175	0.178	0.180	0.183	0.186	0.189	0.191	0.194
	(1) Forecast sub-regional growth rate of MSW - per year (%)	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%	2.0%
	(1) Forecast sub-regional level growth rate of MSW - cumulative (%)	104%	106%	108%	110%	113%	115%	117%	120%	122%	124%	127%	129%	132%	135%	137%	140%	143%	146%	149%	152%	155%
	Total arisings of MSW using sub-regional growth forecasts	0.131	0.134	0.137	0.140	0.142	0.145	0.148	0.151	0.154	0.157	0.160	0.163	0.167	0.170	0.173	0.177	0.180	0.184	0.188	0.192	0.195
c&i	Arisings of C&I in baseline year																					
	(1) Forecast regional level growth rate of C&I - per year (%)	3.3%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.0%	1.0%	1.0%	1.0%	1.0%
	(1) Forecast regional level growth rate of C&I - cumulative (%)	117%	120%	123%	126%	130%	133%	136%	138%	141%	144%	147%	149%	151%	153%	156%	158%	160%	161%	163%	164%	166%
	Total arisings of C&I using regional growth forecasts	0.094	0.096	0.099	0.101	0.104	0.106	0.108	0.111	0.113	0.115	0.117	0.119	0.121	0.123	0.125	0.126	0.128	0.129	0.130	0.132	0.133
	(1) Forecast sub-regional level growth rate of C&I - per year (%)	3.3%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.0%	1.0%	1.0%	1.0%	1.0%
	(1) Forecast sub-regional level growth rate of C&I - cumulative (%)	117%	120%	123%	126%	130%	133%	136%	138%	141%	144%	147%	149%	151%	153%	156%	158%	160%	161%	163%	164%	166%
	Total arisings of C&I using sub-regional growth forecasts	0.094	0.096	0.099	0.101	0.104	0.106	0.108	0.111	0.113	0.115	0.117	0.119	0.121	0.123	0.125	0.126	0.128	0.129	0.130	0.132	0.133
hazardous	Arisings of hazardous waste in baseline year																					
	(2) Forecast regional level growth rate of hazardous waste - per year (%)	3.3%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.0%	1.0%	1.0%	1.0%	1.0%
	Forecast regional level growth rate of hazardous waste - cumulative (%)	107%	109%	112%	115%	118%	121%	123%	126%	128%	131%	133%	135%	137%	139%	141%	144%	145%	146%	148%	149%	151%
	Total arisings of hazardous waste	0.015	0.016	0.016	0.016	0.017	0.017	0.018	0.018	0.018	0.019	0.019	0.019	0.020	0.020	0.020	0.021	0.021	0.021	0.021	0.021	0.022
	(2) Forecast sub-regional level growth rate of hazardous waste - per year (%)	3.3%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.0%	1.0%	1.0%	1.0%	1.0%
	Forecast sub regional level growth rate of hazardous waste - cumulative (%)	107%	109%	112%	115%	118%	121%	123%	126%	128%	131%	133%	135%	137%	139%	141%	144%	145%	146%	148%	149%	151%
	Total arisings of hazardous waste	0.015	0.016	0.016	0.016	0.016	0.017	0.017	0.018	0.018	0.018	0.019	0.019	0.019	0.020	0.020	0.020	0.021	0.021	0.021	0.021	0.022
c&d	Total managed C&D in baseline year																					
	(3) Forecast regional-level growth rate of managed C&D - per year (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Forecast regional-level growth rate of managed C&D - cumulative (%)	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
	(3) Total managed of C&D for the sub-region	0.332	0.332	0.332	0.332	0.332	0.332	0.332	0.332	0.332	0.332	0.332	0.332	0.332	0.332	0.332	0.332	0.332	0.332	0.332	0.332	0.332

(1) Figures from SEERA updated waste capacity model by ERM in 2005.
(2) Baseline year of hazardous waste arisings is 2003 from EA Hazardous Waste Interrogator. www.environment-agency.gov.uk/apps/wastesurvey2/. ERM has assumed that growth in hazardous waste is equal to C&I waste.
(3) These data represent managed C&D waste in the sub-region, including all intra-regional and inter-regional movements. Growth is assumed to be zero from the orginal MEL study and updated modeted by ERM in 2005.
NOTE: C&D waste is not included in arisings because this was taken from survey data by Symonds 2001 which gave values for managed C&D waste.

Medway

Figure in blue represent data supplied by each sub-region for the new '2006 SEERA Capacity and Need Model'
Figures in orange represent managed waste that are used by the model to calculate results. These can be adjusted for different scenarios.

DATA_02: INTER REGIONAL MOVEMENTS OF MSW and C&I (Million Tonnes)		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw and c&i	Regional level imports of MSW and C&I waste into the SE region from London	1.76	1.716	1.672	1.628	1.584	1.54	1.454	1.368	1.282	1.196	1.11	1.064	1.018	0.972	0.926	0.88	0.86	0.84	0.82	0.8	0.78
	Proportion of regional MSW and C&I imports that go to the sub-region (%)	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%
	(1) Total imports of MSW and C&I from London into sub-region sent direct to landfill	0.017	0.017	0.016	0.016	0.015	0.015	0.014	0.013	0.012	0.012	0.011	0.010	0.010	0.009	0.009	0.009	0.008	0.008	0.008	0.008	0.008
msw	Proportion of total MSW and C&I imports that are MSW (%) - REGIONAL GROWTH FORECAST	59%	59%	59%	59%	59%	59%	59%	59%	59%	59%	59%	59%	59%	59%	59%	59%	59%	59%	59%	59%	59%
	Total imports of MSW into the sub-region from London - REGIONAL GROWTH FORECAST	0.010	0.010	0.010	0.009	0.009	0.009	0.008	0.008	0.007	0.007	0.006	0.006	0.006	0.006	0.005	0.005	0.005	0.005	0.005	0.005	0.004
	Proportion of total MSW and C&I imports that are MSW (%) - SUB-REGIONAL GROWTH FORECAST	58%	58%	58%	58%	58%	58%	58%	58%	58%	58%	58%	58%	58%	58%	58%	58%	59%	59%	59%	59%	60%
	Total imports of MSW into the sub-region from London - SUB-REGIONAL GROWTH FORECAST	0.010	0.010	0.009	0.009	0.009	0.009	0.008	0.008	0.007	0.007	0.006	0.006	0.006	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
c&i	Proportion of total MSW and C&I imports that are C&I (%) - REGIONAL GROWTH FORECAST	41%	41%	41%	41%	41%	41%	41%	41%	41%	41%	41%	41%	41%	41%	41%	41%	41%	41%	41%	41%	41%
	Total imports of C&I into the sub-region from London - REGIONAL GROWTH FORECAST	0.007	0.007	0.007	0.007	0.006	0.006	0.006	0.005	0.005	0.005	0.004	0.004	0.004	0.004	0.004	0.004	0.003	0.003	0.003	0.003	0.003
	Proportion of total MSW and C&I imports that are C&I (%) - SUB-REGIONAL GROWTH FORECAST	42%	42%	42%	42%	42%	42%	42%	42%	42%	42%	42%	42%	42%	42%	42%	42%	41%	41%	41%	41%	40%
	Total imports of C&I into the sub-region from London - SUB-REGIONAL GROWTH FORECAST	0.007	0.007	0.007	0.007	0.006	0.006	0.006	0.006	0.005	0.005	0.005	0.004	0.004	0.004	0.004	0.004	0.003	0.003	0.003	0.003	0.003

(1) Intra-regional and inter-regional movements have been excluded for MSW and C&I waste due to self-sufficiency requirements under PPS10, except for inter-regional movements from London into the sub-region. Apportionment from Policy W3 in the Plan – downloa
Note: Only a figure is available for total combined imports of MSW and C&I waste. ERM has assumed that imports of the seperate waste streams of MSW and C&I was split according to tonnage arisings of MSW and C&I in the sub-region.

DATA_03: MANAGED WASTE USED TO GENERATE RESULTS (Million Tonnes)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	0.134	0.137	0.141	0.144	0.148	0.152	0.155	0.158	0.161	0.164	0.167	0.170	0.173	0.175	0.178	0.180	0.183	0.186	0.189	0.191	0.194
msw - imports from london that are sent direct to non-hazardous landfill	0.010	0.010	0.010	0.009	0.009	0.009	0.008	0.008	0.007	0.007	0.006	0.006	0.006	0.006	0.005	0.005	0.005	0.005	0.005	0.005	0.004
c&i	0.094	0.096	0.099	0.101	0.104	0.106	0.108	0.111	0.113	0.115	0.117	0.119	0.121	0.123	0.125	0.126	0.128	0.129	0.130	0.132	0.133
c&I - imports from london that are sent direct to non-hazardous landfill	0.007	0.007	0.007	0.007	0.006	0.006	0.006	0.005	0.005	0.005	0.004	0.004	0.004	0.004	0.004	0.004	0.003	0.003	0.003	0.003	0.003
c&d	0.332	0.332	0.332	0.332	0.332	0.332	0.332	0.332	0.332	0.332	0.332	0.332	0.332	0.332	0.332	0.332	0.332	0.332	0.332	0.332	0.332
hazardous	0.015	0.016	0.016	0.016	0.017	0.017	0.018	0.018	0.018	0.019	0.019	0.019	0.020	0.020	0.020	0.021	0.021	0.021	0.021	0.021	0.022

DATA_04: TARGETS (% or Million Tonnes)		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	(1) landfill (Mt)	0.081	0.078	0.074	0.068	0.061	0.053	0.047	0.041	0.035	0.034	0.032	0.031	0.029	0.028	0.026	0.025	0.025	0.025	0.025	0.025	0.025
	recovered (%)	5	6.4	7.8	9.2	10.6	12	14.4	16.8	19.2	21.6	24	24.8	25.6	26.4	27.2	28	27.2	26.4	25.6	24.8	24
	recycled and composted (%)	30	32.0	34.0	36.0	38.0	40	42.0	44.0	46.0	48.0	50	51.0	52.0	53.0	54.0	55	56.0	57.0	58.0	59.0	60
c&i	recovered (%)	14	14.2	14.4	14.6	14.8	15	16.0	17.0	18.0	19.0	20	20.2	20.4	20.6	20.8	21	20.6	20.2	19.8	19.4	19
	recycled and composted (%)	40	42.0	44.0	46.0	48.0	50	51.0	52.0	53.0	54.0	55	56.0	57.0	58.0	59.0	60	61.0	62.0	63.0	64.0	65
c&d	recovered (%)	36	35.4	34.8	34.2	33.6	33	33.6	34.2	34.8	35.4	36	34.4	32.8	31.2	29.6	28	28.4	28.8	29.2	29.6	30
	recycled (%)	45	46.0	47.0	48.0	49.0	50	50.0	50.0	50.0	50.0	50	52.0	54.0	56.0	58.0	60	60.0	60.0	60.0	60.0	60
hazardous	landfill (%)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	recovered (%)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	recycled (%)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

(1) ERM has assumed that the LATS target allowance remains constant at the 2020 value for the years beyond 2020

DATA_05: WASTE STREAM TONNAGES TO MEET TARGETS (Million Tonnes)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025

This first section of DATA_03 calculates if there is a LATS shortfall or suplus in each year. If there is a LATS shortfall (ie insufficient allowance to landfill non-diverted waste) then the model assumes that this extra waste is recycled/composted and r

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	Total MSW to be recovered and recycled/composted to meet target	0.047	0.053	0.059	0.065	0.072	0.079	0.087	0.096	0.105	0.114	0.124	0.129	0.134	0.139	0.144	0.150	0.152	0.155	0.158	0.160	0.163
	Total MSW not-diverted by targets	0.087	0.085	0.082	0.079	0.076	0.073	0.067	0.062	0.056	0.050	0.044	0.041	0.039	0.036	0.033	0.031	0.031	0.031	0.031	0.031	0.031
	Percentage of MSW that is biodegradable (% by weight)	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68
	Total BMW not-diverted by targets	0.059	0.058	0.056	0.054	0.052	0.050	0.046	0.042	0.038	0.034	0.030	0.028	0.026	0.025	0.023	0.021	0.021	0.021	0.021	0.021	0.021
	LATS shortfall (how much extra is landfilled above LATS target)	-0.021	-0.020	-0.018	-0.014	-0.009	-0.003	-0.001	0.001	0.003	0.000	-0.002	-0.003	-0.003	-0.003	-0.003	-0.004	-0.004	-0.004	-0.004	-0.003	-0.003
	Ratio of 'recovered' to 'recycled/composted' for target (%)	14%	17%	19%	20%	22%	23%	26%	28%	29%	31%	32%	33%	33%	33%	33%	34%	33%	32%	31%	30%	29%
	Extra MSW 'recovery' needed due to LATS shortfall	0.000	0.000	0.000	0.000	0.000	0.000	0.000	*0.000*	*0.001*	*0.000*	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Extra MSW 'recycling/composting' needed due to LATS shortfall	0.000	0.000	0.000	0.000	0.000	0.000	0.000	*0.001*	*0.002*	*0.000*	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

The section below in DATA_03 shows the tonnages by waste to meet targets.

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	Recycling and composting target	0.040	0.044	0.048	0.052	0.056	0.061	0.065	0.070	0.076	0.079	0.084	0.087	0.090	0.093	0.096	0.099	0.103	0.106	0.109	0.113	0.117
	Recovery target	0.007	0.009	0.011	0.013	0.016	0.018	0.022	0.027	0.032	0.036	0.040	0.042	0.044	0.046	0.048	0.051	0.050	0.049	0.048	0.047	0.047
	Non-hazardous landfill	0.087	0.085	0.082	0.079	0.076	0.073	0.067	0.061	0.053	0.050	0.044	0.041	0.039	0.036	0.033	0.031	0.031	0.031	0.031	0.031	0.031
	CHECK COUNTER (should be zero)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
c&i	Recycling and composting target	0.038	0.040	0.043	0.047	0.050	0.053	0.055	0.058	0.060	0.062	0.065	0.067	0.069	0.071	0.074	0.076	0.078	0.080	0.082	0.084	0.086
	Recovery target	0.013	0.014	0.014	0.015	0.015	0.016	0.017	0.019	0.020	0.022	0.023	0.024	0.025	0.025	0.026	0.027	0.026	0.026	0.026	0.026	0.025
	Non-hazardous landfill	0.043	0.042	0.041	0.040	0.039	0.037	0.036	0.034	0.033	0.031	0.029	0.028	0.027	0.026	0.025	0.024	0.023	0.023	0.022	0.022	0.021
	CHECK COUNTER (should be zero)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
c&d	Recycling target	0.149	0.153	0.156	0.159	0.162	0.166	0.166	0.166	0.166	0.166	0.166	0.172	0.179	0.186	0.192	0.199	0.199	0.199	0.199	0.199	0.199
	Recovery target	0.119	0.117	0.115	0.113	0.111	0.109	0.111	0.113	0.115	0.117	0.119	0.114	0.109	0.103	0.098	0.093	0.094	0.096	0.097	0.098	0.099
	Inert landfill	0.063	0.062	0.060	0.059	0.058	0.056	0.054	0.052	0.050	0.048	0.046	0.045	0.044	0.042	0.041	0.040	0.038	0.037	0.036	0.034	0.033
	CHECK COUNTER (should be zero)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
hazardous	Hazardous waste	0.015	0.016	0.016	0.016	0.017	0.017	0.018	0.018	0.018	0.019	0.019	0.019	0.020	0.020	0.020	0.021	0.021	0.021	0.021	0.021	0.022

DATA_06: TOTAL WASTE TONNAGES TO MEET TARGETS (Million Tonnes)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
MSW and C&I recycling and composting target	0.078	0.084	0.091	0.099	0.106	0.114	0.120	0.128	0.136	0.141	0.148	0.153	0.159	0.164	0.169	0.175	0.180	0.186	0.191	0.197	0.203
C&D recycling target	0.149	0.153	0.156	0.159	0.162	0.166	0.166	0.166	0.166	0.166	0.166	0.172	0.179	0.186	0.192	0.199	0.199	0.199	0.199	0.199	0.199
MSW and C&I recovery target	0.020	0.022	0.025	0.028	0.031	0.034	0.040	0.046	0.052	0.057	0.064	0.066	0.069	0.072	0.074	0.077	0.076	0.075	0.074	0.073	0.072
C&D recovery target	0.119	0.117	0.115	0.113	0.111	0.109	0.111	0.113	0.115	0.117	0.119	0.114	0.109	0.103	0.098	0.093	0.094	0.096	0.097	0.098	0.099
Non-hazardous landfill	0.130	0.127	0.123	0.119	0.115	0.110	0.103	0.095	0.086	0.081	0.073	0.069	0.066	0.062	0.059	0.055	0.054	0.054	0.053	0.053	0.052
Inert landfill	0.063	0.062	0.060	0.059	0.058	0.056	0.054	0.052	0.050	0.048	0.046	0.045	0.044	0.042	0.041	0.040	0.038	0.037	0.036	0.034	0.033
Hazardous waste	0.015	0.016	0.016	0.016	0.017	0.017	0.018	0.018	0.018	0.019	0.019	0.019	0.020	0.020	0.020	0.021	0.021	0.021	0.021	0.021	0.022

Medway

CHART_01

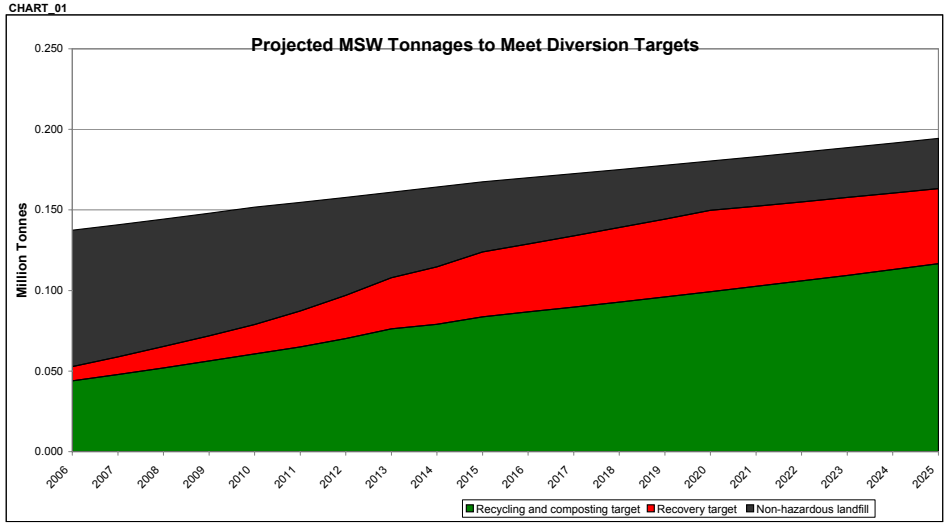
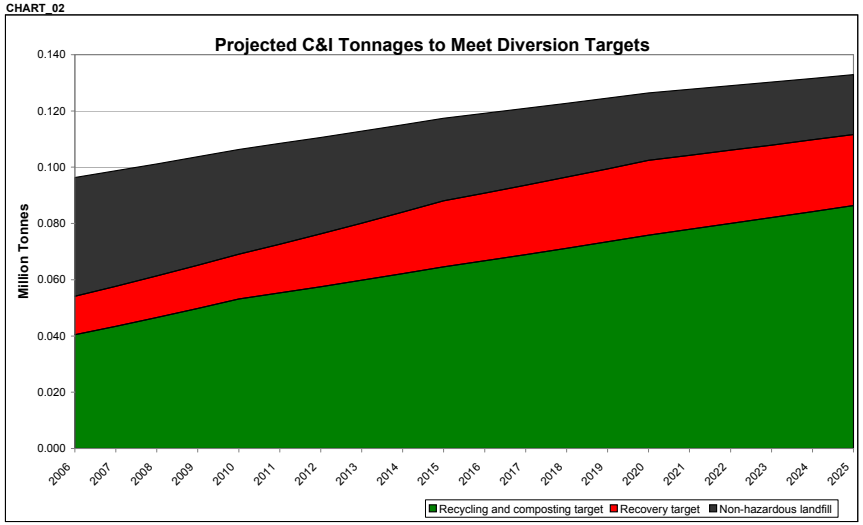


CHART_02



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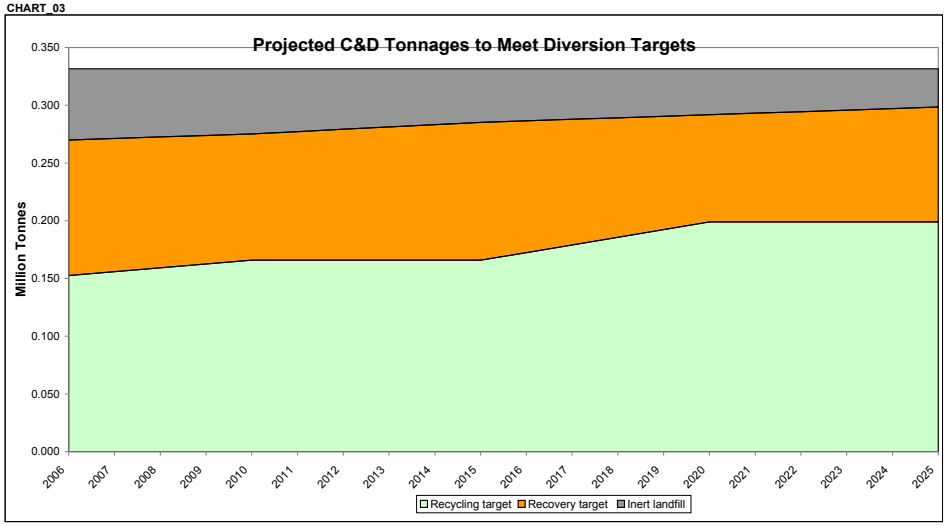

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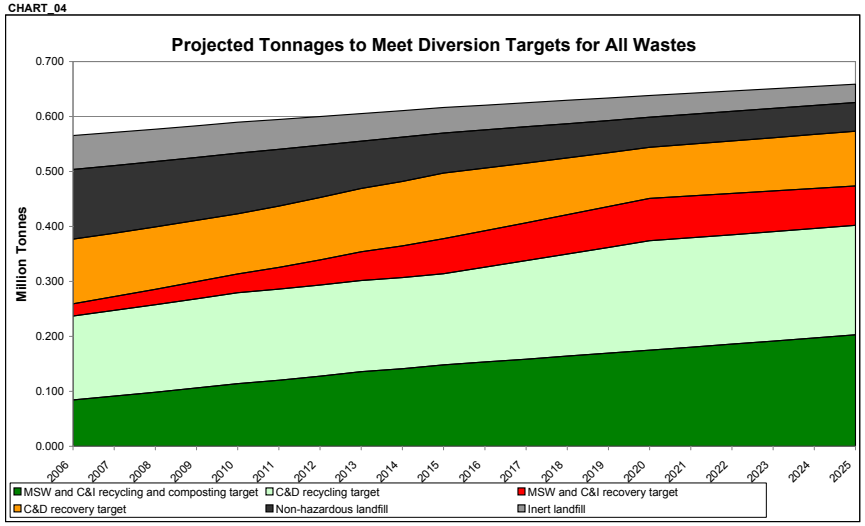
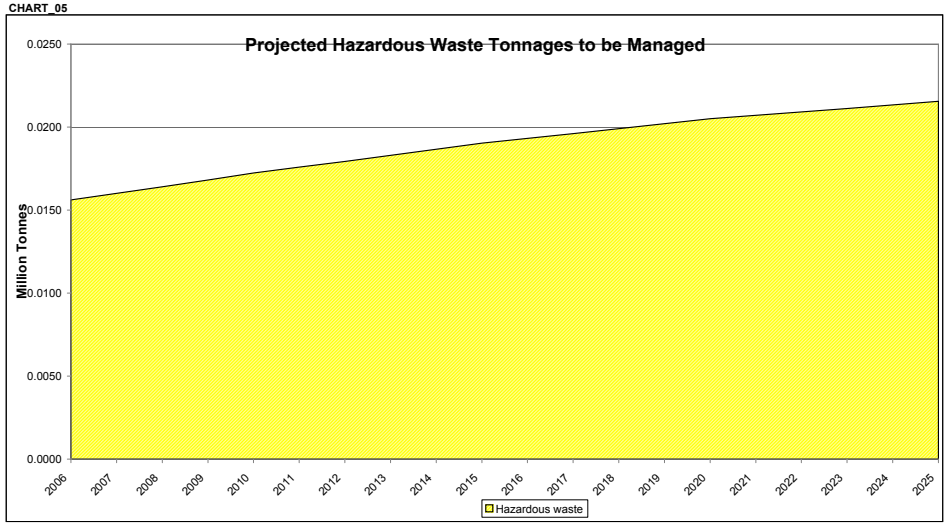


Medway

CHART_05



DATA_07: EXISTING/PLANNED CAPACITY FOR RECYCLING, RECOVERY AND LANDFILLING AND TOTAL WASTE TONNAGES TO EACH DISPOSAL ROUTE (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
MSW and C&I recovery																					
MSW and C&I incineration (non-specialist)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
MSW and C&I treatment	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
Total existing/planned MSW and C&I recovery capacity	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005
Total MSW waste required to meet target	0.007	0.009	0.011	0.013	0.016	0.018	0.022	0.027	0.032	0.036	0.040	0.042	0.044	0.046	0.048	0.051	0.050	0.049	0.048	0.047	0.047
Total C&I waste required to meet target	0.013	0.014	0.014	0.015	0.015	0.016	0.017	0.019	0.020	0.022	0.023	0.024	0.025	0.025	0.026	0.027	0.026	0.026	0.026	0.026	0.025
Surplus/deficit capacity	-0.015	-0.017	-0.020	-0.023	-0.026	-0.029	-0.035	-0.041	-0.047	-0.052	-0.059	-0.061	-0.064	-0.067	-0.069	-0.072	-0.071	-0.070	-0.069	-0.068	-0.067
MSW and C&I recycling and composting																					
MSW and C&I recycling	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
MSW and C&I transfer	1.457	1.457	1.457	1.457	1.457	1.457	1.457	1.457	1.457	1.457	1.457	1.457	1.457	1.457	1.457	1.457	1.457	1.457	1.457	1.457	1.457
Total existing/planned MSW and C&I composting capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
(1) Total existing/planned MSW and C&I recycling and composting capacity (Baseline: 20% of transfer capacity delivers recycling)	0.291	0.291	0.291	0.291	0.291	0.291	0.291	0.291	0.291	0.291	0.291	0.291	0.291	0.291	0.291	0.291	0.291	0.291	0.291	0.291	0.291
(2) Total existing/planned MSW and C&I recycling and composting capacity (Sensitivity: 5% of transfer capacity delivers recycling)	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073	0.073
Total MSW waste required to meet recycling and composting target	0.040	0.044	0.048	0.052	0.056	0.061	0.065	0.070	0.076	0.079	0.084	0.087	0.090	0.093	0.096	0.099	0.103	0.106	0.109	0.113	0.117
Total C&I waste required to meet recycling and composting target	0.038	0.040	0.043	0.047	0.050	0.053	0.055	0.058	0.060	0.062	0.065	0.067	0.069	0.071	0.074	0.076	0.078	0.080	0.082	0.084	0.086
Surplus/deficit capacity (Baseline: 20% of transfer capacity delivers recycling)	0.214	0.207	0.200	0.193	0.185	0.178	0.171	0.164	0.155	0.150	0.143	0.138	0.133	0.127	0.122	0.116	0.111	0.105	0.100	0.094	0.088
Surplus/deficit capacity (Sensitivity: 5% of transfer capacity delivers recycling)	-0.005	-0.012	-0.018	-0.026	-0.033	-0.041	-0.047	-0.055	-0.063	-0.068	-0.075	-0.081	-0.086	-0.091	-0.097	-0.102	-0.108	-0.113	-0.119	-0.124	-0.130
C&D recycling																					
(3) Total existing/planned C&D recycling capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total waste required to meet C&D recycling target	0.149	0.153	0.156	0.159	0.162	0.166	0.166	0.166	0.166	0.166	0.166	0.172	0.179	0.186	0.192	0.199	0.199	0.199	0.199	0.199	0.199
Surplus/deficit capacity	-0.149	-0.153	-0.156	-0.159	-0.162	-0.166	-0.166	-0.166	-0.166	-0.166	-0.166	-0.172	-0.179	-0.186	-0.192	-0.199	-0.199	-0.199	-0.199	-0.199	-0.199
C&D recovery																					
REGIONAL total existing/planned C&D recovery capacity	1.877	1.794	1.710	1.627	1.544	1.460	1.439	1.418	1.398	1.377	1.356	1.325	1.293	1.262	1.231	1.199	1.220	1.241	1.262	1.283	1.304
Sub-regional total waste required to meet C&D recovery target	0.119	0.117	0.115	0.113	0.111	0.109	0.111	0.113	0.115	0.117	0.119	0.114	0.109	0.103	0.098	0.093	0.094	0.096	0.097	0.098	0.099
Surplus/deficit capacity	1.758	1.676	1.595	1.514	1.432	1.351	1.328	1.305	1.282	1.259	1.236	1.210	1.184	1.158	1.133	1.107	1.126	1.146	1.165	1.185	1.204
Hazardous waste recycling																					
Total existing/planned hazardous waste recycling capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total hazardous waste to be recycled	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Surplus/deficit capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hazardous waste recovery																					
Total existing/planned hazardous waste recovery capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total hazardous waste to be recovered	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Surplus/deficit capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Non-hazardous landfill																					
Available non-hazardous landfill capacity (excluding residues from MSW and C&I recovery)		0.475	0.304	0.135	-0.030	-0.193	-0.351	-0.503	-0.647	-0.782	-0.912	-1.035	-1.155	-1.272	-1.387	-1.500	-1.609	-1.719	-1.828	-1.938	-2.048
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'Incineration (non-specialist)'		0.475	0.300	0.128	-0.042	-0.209	-0.372	-0.530	-0.681	-0.824	-0.963	-1.095	-1.225	-1.353	-1.478	-1.602	-1.723	-1.844	-1.965	-2.086	-2.207
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'MBT'		0.475	0.290	0.107	-0.075	-0.256	-0.434	-0.610	-0.781	-0.947	-1.110	-1.270	-1.430	-1.588	-1.745	-1.901	-2.056	-2.210	-2.364	-2.518	-2.671
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'RDF'		0.475	0.301	0.129	-0.039	-0.205	-0.368	-0.525	-0.674	-0.816	-0.953	-1.083	-1.211	-1.337	-1.460	-1.581	-1.700	-1.819	-1.937	-2.056	-2.175
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'treatment'		0.475	0.293	0.114	-0.064	-0.241	-0.415	-0.584	-0.749	-0.908	-1.063	-1.215	-1.364	-1.513	-1.660	-1.806	-1.950	-2.094	-2.237	-2.380	-2.523
Total MSW and C&I waste sent direct to non-hazardous landfill		0.127	0.123	0.119	0.115	0.110	0.103	0.095	0.086	0.081	0.073	0.069	0.066	0.062	0.059	0.055	0.054	0.054	0.053	0.053	0.052
Inert landfill																					
Available inert landfill capacity		0.000	-0.062	-0.122	-0.181	-0.239	-0.295	-0.350	-0.402	-0.452	-0.501	-0.547	-0.592	-0.636	-0.678	-0.720	-0.759	-0.798	-0.835	-0.871	-0.905
Available inert landfill capacity assuming all MSW and C&I recovery by 'Incineration (non-specialist)'		0.000	-0.065	-0.129	-0.192	-0.255	-0.316	-0.377	-0.436	-0.494	-0.551	-0.607	-0.662	-0.716	-0.769	-0.822	-0.873	-0.923	-0.971	-1.018	-1.064
Total C&D waste sent direct to inert landfill	0.063	0.062	0.060	0.059	0.058	0.056	0.054	0.052	0.050	0.048	0.046	0.045	0.044	0.042	0.041	0.040	0.038	0.037	0.036	0.034	0.033
Hazardous landfill																					
Available hazardous landfill capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total hazardous waste sent direct to hazardous landfill	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Other																					
Metal/ELV facility	0.166	0.166	0.166	0.166	0.166	0.166	0.166	0.166	0.166	0.166	0.166	0.166	0.166	0.166	0.166	0.166	0.166	0.166	0.166	0.166	0.166
Ignored	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Closed	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

(1) ERM has assumed that 20% of the total 'transfer' capacity will deliver recycling capacity
(2) ERM has assumed that 5% of the total 'transfer' capacity will deliver recycling capacity
(3) Data for C&D recovery for landfill cover for the SE Region were sourced from the original MEL model, which sourced the data from Symonds (2001)
Note: The capacity model developed by ERM for this study does not include the capacity provided in the 'Others' group in its calculations because these are not relevant to the management of MSW, C&I and C&D. These data are included for the purposes of completeness.

Medway

DATA_08: RESIDUE RATES (%)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Recovery residues (% by weight)																					
MSW and C&I incineration (non-specialist) - bottom ash	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
MSW and C&I incineration (non-specialist) - fly ash	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
MSW and C&I to MBT	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59
MSW and C&I to RDF	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
MSW and C&I treatment - non-hazardous	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45
MSW and C&I treatment - hazardous	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Hazardous waste recovery	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Recycling residues (% by weight)																					
MSW and C&I recycling	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
(2) MSW and C&I transfer	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
MSW and C&I composting	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
C&D recycling	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Hazardous waste recycling	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Other																					
Metal/ELV facility	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Ignored	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Closed	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Note: The capacity model developed by ERM for this study does not include the capacity provided in the 'Others' group in its calculations because these are not relevant to the management of MSW, C&I and C&D. These data are included for the purposes of completeness.

DATA_09: TOTAL RESIDUE (Million Tonnes)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Recovery residues (of waste managed):																					
MSW and C&I incineration (non-specialist) - bottom ash	0.006	0.007	0.008	0.008	0.009	0.010	0.012	0.014	0.016	0.017	0.019	0.020	0.021	0.021	0.022	0.023	0.023	0.023	0.022	0.022	0.022
MSW and C&I incineration (non-specialist) - fly ash	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
MSW and C&I to MBT	0.012	0.013	0.015	0.017	0.018	0.020	0.023	0.027	0.031	0.034	0.038	0.039	0.041	0.042	0.044	0.045	0.045	0.044	0.044	0.043	0.042
MSW and C&I to RDF	0.002	0.003	0.003	0.003	0.004	0.004	0.005	0.005	0.006	0.007	0.008	0.008	0.008	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009
MSW and C&I treatment - non-hazardous	0.009	0.010	0.011	0.013	0.014	0.015	0.018	0.021	0.023	0.026	0.029	0.030	0.031	0.032	0.033	0.035	0.034	0.034	0.033	0.033	0.032
MSW and C&I treatment - hazardous	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.003	0.003	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
Hazardous waste recovery	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Recycling residues (of waste managed):																					
MSW and C&I recycling and composting	0.012	0.013	0.014	0.015	0.016	0.017	0.018	0.019	0.020	0.021	0.022	0.023	0.024	0.025	0.025	0.026	0.027	0.028	0.029	0.030	0.030
C&D recycling	0.015	0.015	0.016	0.016	0.016	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.018	0.019	0.019	0.020	0.020	0.020	0.020	0.020	0.020
Hazardous waste recycling	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Note: All residues are calculated on the amount of waste arising not on the maount of capacity available. This is complaince with the self-sufficiency requirements of PPS10.

DATA_10: TOTAL MSW AND C&I RESIDUE FROM RECYCLING SENT TO NON-HAZARDOUS LANDFILL (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Total MSW and C&I recycling and composting residue sent to non-hazardous landfill	0.027	0.028	0.029	0.031	0.032	0.034	0.035	0.036	0.037	0.038	0.039	0.040	0.042	0.043	0.045	0.046	0.047	0.048	0.049	0.049	0.050

DATA_11: TOTAL MSW AND C&I RESIDUE FROM RECOVERY SENT TO NON-HAZARDOUS LANDFILL AND C&D RECYCLING (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
SCENARIO 1 - Assumes all recovery is by 'Non-specialist incineration' (based on total recovery capacity)																					
(1) Total MSW and C&I residue sent to non-hazardous landfill assuming all MSW and C&I recovery by 'Non-specialist incineration'	0.003	0.003	0.004	0.004	0.005	0.005	0.006	0.007	0.008	0.009	0.010	0.010	0.010	0.011	0.011	0.012	0.011	0.011	0.011	0.011	0.011
(1) Total MSW and C&I residue sent to inert landfill assuming all MSW and C&I recovery by 'Non-specialist incineration'	0.003	0.003	0.004	0.004	0.005	0.005	0.006	0.007	0.008	0.009	0.010	0.010	0.010	0.011	0.011	0.012	0.011	0.011	0.011	0.011	0.011
SCENARIO 2 - Assumes all recovery is by 'MBT' (based on total recovery capacity)																					
Total MSW and C&I residue sent to non-hazardous landfill	0.012	0.013	0.015	0.017	0.018	0.020	0.023	0.027	0.031	0.034	0.038	0.039	0.041	0.042	0.044	0.045	0.045	0.044	0.044	0.043	0.042
SCENARIO 3 - Assumes all recovery is by 'RDF' (based on total recovery capacity)																					
Total MSW and C&I residue sent to non-hazardous landfill	0.002	0.003	0.003	0.003	0.004	0.004	0.005	0.005	0.006	0.007	0.008	0.008	0.008	0.009	0.009	0.009	0.009	0.009	0.009	0.009	0.009
SCENARIO 4 - Assumes all recovery is by 'treatment' (based on total recovery capacity)																					
Total MSW and C&I residue sent to non-hazardous landfill	0.009	0.010	0.011	0.013	0.014	0.015	0.018	0.021	0.023	0.026	0.029	0.030	0.031	0.032	0.033	0.035	0.034	0.034	0.033	0.033	0.032

(1) It was assumed that 50% of residue from 'non-specialist incineration' is sent to non-hazardous landfill and 50% is sent to inert landfill. In the original model assumptions developed MEL 50% was assumed to go to C&D recycling, rather than to inert landfi

DATA_12: TONNAGES OF C&D REUSED ON NON-HAZARDOUS AND INERT LANDFILL (Million Tonnes)

(1) C&D reused on landfill sites	39 %
(1) C&D reused on exempt sites	61 %
(1) C&D reused on landfill sites sent to 'non-haz landfill'	30 %
(1) C&D reused on landfill sites sent to 'inert landfill'	70 %

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
c&d	Total C&D reused on non-hazardous landfill	0.014	0.014	0.013	0.013	0.013	0.013	0.013	0.013	0.013	0.014	0.014	0.013	0.013	0.012	0.011	0.011	0.011	0.011	0.011	0.011	0.012
	Total reused C&D on inert landfill	0.032	0.032	0.031	0.031	0.030	0.030	0.030	0.031	0.031	0.032	0.032	0.031	0.030	0.028	0.027	0.025	0.026	0.026	0.026	0.027	0.027

(1) C&D reuse rates based on original model assumptions developed MEL
NOTE: C&D reuse on inert and non-hazardous landfill is not included within the charts because it has been assumed that data supplied by each sub-region has accounted for C&D reuse as an engineering material.

DATA_13: TOTAL MSW AND C&I RESIDUE FROM RECYCLING SENT TO HAZARDOUS LANDFILL (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Total MSW and C&I recycling and composting residue sent to hazardous landfill	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

DATA_14: TOTAL MSW AND C&I RESIDUE FROM RECOVERY SENT TO HAZARDOUS LANDFILL (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
SCENARIO 1 - Assumes all recovery is by 'Non-specialist incineration' (based on total recovery capacity)																					
Total MSW and C&I residue sent to hazardous landfill assuming all MSW and C&I recovery by 'Non-specialist incineration'	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
SCENARIO 2 - Assumes all recovery is by 'MBT' (based on total recovery capacity)																					
Total MSW and C&I residue sent to hazardous landfill	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SCENARIO 3 - Assumes all recovery is by 'RDF' (based on total recovery capacity)																					
Total MSW and C&I residue sent to hazardous landfill	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SCENARIO 4 - Assumes all recovery is by 'treatment' (based on total recovery capacity)																					
Total MSW and C&I residue sent to hazardous landfill	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.003	0.003	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004

NOTE: This element of the model is redundant. There is currently no hazardous waste capacity figures to generate a chart of managed waste versus available capacity.

DATA_15: TOTAL HAZARDOUS WASTE RESIDUE FROM RECOVERY AND RECYCLING SENT TO HAZARDOUS LANDFILL (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Total hazardous waste recycling and recovery residue sent to hazardous landfill	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Medway

CHART_06

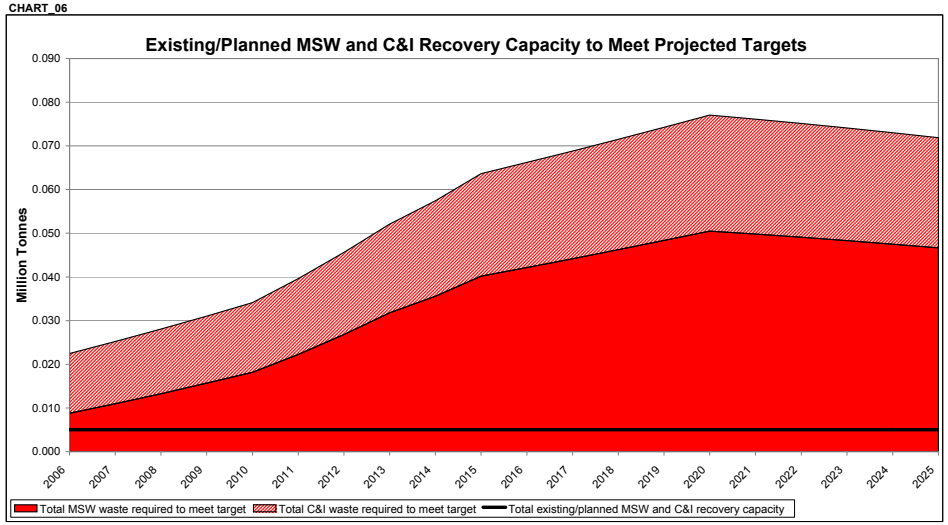


CHART_07

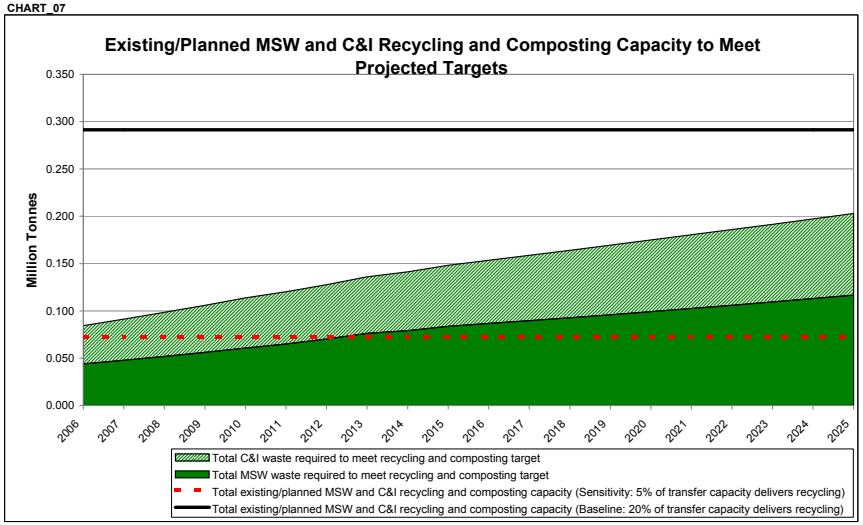
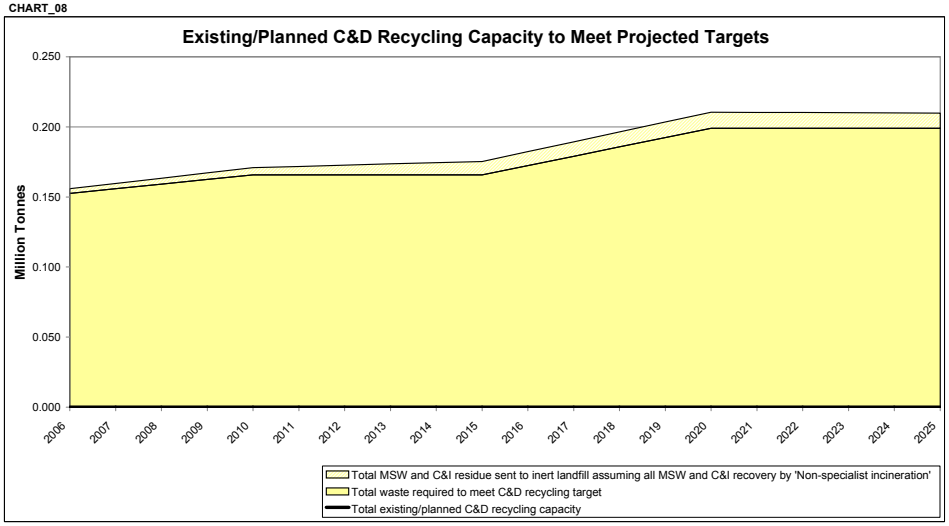


CHART_08



Medway

CHART_09

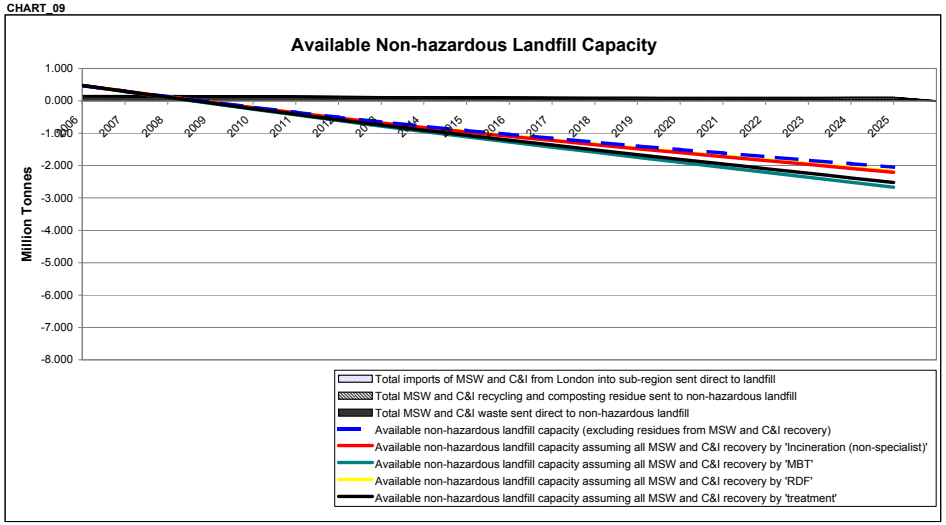
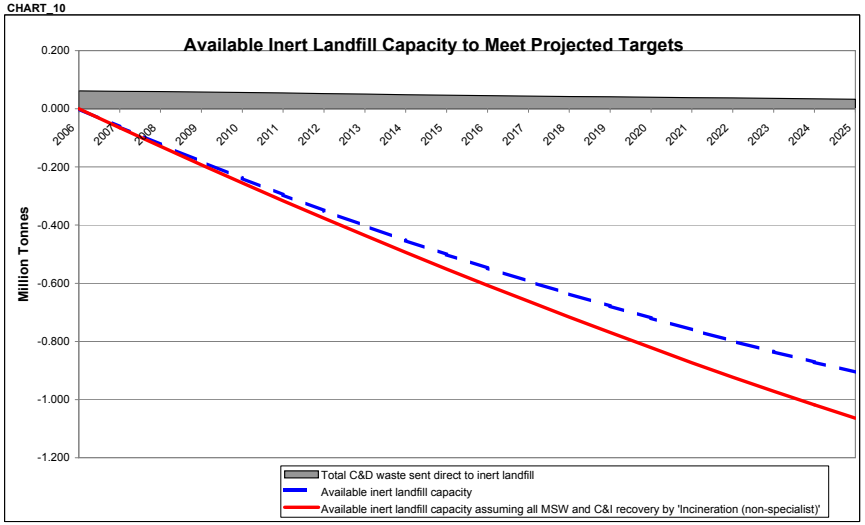


CHART_10



NOTE: The graph assumes that the baseline capacity for non-hazardous landfill has accounted for C&D reuse as a landfill engineering material.

Milton Keynes

SUMMARY DATA AND RESULTS FOR MILTON KEYNES

MANAGED WASTE USED TO GENERATE RESULTS (Million Tonnes)	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	0.132	0.135	0.138	0.142	0.145	0.148	0.151	0.154	0.157	0.160	0.163	0.165	0.168	0.170	0.173	0.175	0.178	0.181	0.183	0.186
msw - imports from london that are sent direct to non-hazardous landfill	0.146	0.142	0.138	0.135	0.131	0.123	0.116	0.109	0.102	0.094	0.090	0.086	0.083	0.079	0.075	0.073	0.071	0.070	0.068	0.067
c&i	0.025	0.026	0.026	0.027	0.027	0.028	0.029	0.029	0.030	0.030	0.031	0.031	0.032	0.032	0.033	0.033	0.033	0.034	0.034	0.034
c&i - imports from london that are sent direct to non-hazardous landfill	0.028	0.027	0.026	0.025	0.025	0.023	0.022	0.021	0.019	0.018	0.017	0.016	0.016	0.015	0.014	0.014	0.013	0.013	0.013	0.012
c&d	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063
hazardous	0.011	0.011	0.011	0.012	0.012	0.012	0.013	0.013	0.013	0.013	0.013	0.014	0.014	0.014	0.014	0.014	0.015	0.015	0.015	0.015

WASTE STREAM TONNAGES TO MEET TARGETS (Million Tonnes)		2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	LATS shortfall (how much extra is landfilled above LATS target)	-0.011	-0.009	-0.006	-0.002	0.003	0.004	0.006	0.007	0.004	0.001	0.001	0.000	0.000	0.000	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
	Recycling and composting target	0.042	0.046	0.050	0.054	0.060	0.065	0.071	0.076	0.078	0.081	0.084	0.086	0.089	0.092	0.095	0.098	0.101	0.105	0.108	0.112
	Recovery target	0.008	0.011	0.013	0.015	0.018	0.022	0.027	0.032	0.035	0.039	0.041	0.042	0.044	0.046	0.048	0.048	0.047	0.046	0.045	0.045
	Non-hazardous landfill	0.081	0.079	0.076	0.073	0.067	0.060	0.054	0.047	0.044	0.041	0.039	0.037	0.034	0.032	0.029	0.029	0.030	0.030	0.030	0.030
c&i	Recycling and composting target	0.010	0.011	0.012	0.013	0.014	0.014	0.015	0.015	0.016	0.017	0.017	0.018	0.018	0.019	0.020	0.020	0.021	0.021	0.022	0.022
	Recovery target	0.004	0.004	0.004	0.004	0.004	0.004	0.005	0.005	0.006	0.006	0.006	0.006	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007
	Non-hazardous landfill	0.011	0.011	0.010	0.010	0.010	0.009	0.009	0.008	0.008	0.008	0.007	0.007	0.007	0.007	0.006	0.006	0.006	0.006	0.006	0.005
c&d	Recycling target	0.029	0.030	0.030	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.033	0.034	0.035	0.036	0.038	0.038	0.038	0.038	0.038	0.038
	Recovery target	0.022	0.022	0.021	0.021	0.021	0.021	0.021	0.022	0.022	0.023	0.022	0.021	0.020	0.019	0.018	0.018	0.018	0.018	0.019	0.019
	Inert landfill	0.012	0.011	0.011	0.011	0.011	0.010	0.010	0.010	0.009	0.009	0.009	0.008	0.008	0.008	0.008	0.007	0.007	0.007	0.007	0.006
hazardous	Hazardous waste	0.011	0.011	0.011	0.012	0.012	0.012	0.013	0.013	0.013	0.013	0.013	0.014	0.014	0.014	0.014	0.014	0.015	0.015	0.015	0.015

Note: If there is a LATS shortfall, denoted by a positive number, (ie insufficient allowance to landfill non-diverted waste) then the model assumes that this extra waste is recycled/composted and recovered at the same ratio as the regional targets for recycling/composting and recovery for that year.

EXISTING/PLANNED CAPACITY FOR RECYCLING, RECOVERY AND LANDFILLING AND TOTAL WASTE TONNAGES TO EACH DISPOSAL ROUTE (Million Tonnes)		2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
MSW and C&I recovery																					
	Total existing/planned MSW and C&I recovery capacity	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075
	Surplus/deficit capacity	0.063	0.061	0.058	0.056	0.053	0.048	0.043	0.038	0.034	0.030	0.028	0.026	0.024	0.022	0.020	0.020	0.021	0.022	0.023	0.024
MSW and C&I recycling and composting																					
	Total existing/planned MSW and C&I recycling and composting capacity (Baseline: 20% of transfer capacity delivers recycling)	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148
	Total existing/planned MSW and C&I recycling and composting capacity (Sensitivity: 5% of transfer capacity delivers recycling)	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125
	Surplus/deficit capacity (Baseline: 20% of transfer capacity delivers recycling)	0.095	0.090	0.086	0.081	0.074	0.068	0.062	0.056	0.053	0.050	0.047	0.043	0.040	0.037	0.033	0.029	0.025	0.022	0.018	0.014
	Surplus/deficit capacity (Sensitivity: 5% of transfer capacity delivers recycling)	0.073	0.068	0.064	0.059	0.051	0.046	0.040	0.034	0.031	0.028	0.025	0.021	0.018	0.014	0.011	0.007	0.003	-0.001	-0.005	-0.009
C&D recycling																					
	Total existing/planned C&D recycling capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Surplus/deficit capacity	-0.029	-0.030	-0.030	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031	-0.033	-0.034	-0.035	-0.036	-0.038	-0.038	-0.038	-0.038	-0.038	-0.038
C&D recovery																					
	REGIONAL total existing/planned C&D recovery capacity	1.794	1.710	1.627	1.544	1.460	1.439	1.418	1.398	1.377	1.356	1.325	1.293	1.262	1.231	1.199	1.220	1.241	1.262	1.283	1.304
	Surplus/deficit capacity	1.772	1.689	1.605	1.522	1.439	1.418	1.397	1.376	1.354	1.333	1.303	1.273	1.242	1.212	1.182	1.202	1.223	1.244	1.264	1.285
Hazardous waste recycling																					
	Total existing/planned hazardous waste recycling capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Surplus/deficit capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hazardous waste recovery																					
	Total existing/planned hazardous waste recovery capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Surplus/deficit capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Non-hazardous landfill																					
	Available non-hazardous landfill capacity (excluding residues from MSW and C&I recovery)	22.000	21.724	21.454	21.192	20.936	20.689	20.457	20.241	20.039	19.849	19.671	19.499	19.334	19.175	19.022	18.877	18.733	18.591	18.450	18.310
	Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'Incineration (non-specialist)'	22.000	21.722	21.450	21.185	20.926	20.677	20.441	20.219	20.012	19.816	19.631	19.452	19.280	19.113	18.953	18.799	18.647	18.496	18.347	18.200
	Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'MBT'	22.000	21.717	21.439	21.166	20.899	20.640	20.392	20.157	19.933	19.719	19.514	19.315	19.121	18.932	18.748	18.570	18.394	18.220	18.048	17.877
	Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'RDF'	22.000	21.722	21.451	21.186	20.928	20.679	20.444	20.224	20.017	19.823	19.639	19.462	19.290	19.125	18.967	18.814	18.664	18.515	18.368	18.222
	Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'treatment'	22.000	21.719	21.443	21.172	20.908	20.651	20.408	20.177	19.958	19.750	19.552	19.359	19.171	18.989	18.813	18.643	18.474	18.308	18.143	17.980
Inert landfill																					
	Available inert landfill capacity	1.128	1.116	1.105	1.094	1.083	1.072	1.062	1.052	1.042	1.033	1.024	1.016	1.007	0.999	0.992	0.984	0.977	0.970	0.963	0.956
	Available inert landfill capacity assuming all MSW and C&I recovery by 'Incineration (non-specialist)'	1.128	1.115	1.101	1.087	1.074	1.059	1.045	1.030	1.015	1.000	0.985	0.969	0.953	0.938	0.922	0.906	0.891	0.876	0.861	0.846
Hazardous landfill																					
	Available hazardous landfill capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Note: The model does not contain data for the management of hazardous waste.

DATA_01: ARISINGS AND GROWTH RATES OF MSW, C&I AND HAZARDOUS WASTE (Million Tonnes)		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	Arisings of MSW in baseline year																					
	(1) Forecast regional level growth rate of MSW - per year (%)	3.0%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%
	(1) Forecast regional level growth rate of MSW - cumulative (%)	103%	106%	108%	111%	114%	117%	119%	121%	124%	126%	129%	131%	133%	135%	137%	139%	141%	143%	145%	147%	149%
	Total arisings of MSW using regional growth forecasts	0.128	0.132	0.135	0.138	0.142	0.145	0.148	0.151	0.154	0.157	0.160	0.163	0.165	0.168	0.170	0.173	0.175	0.178	0.181	0.183	0.186
	(1) Forecast sub-regional growth rate of MSW - per year (%)	2.6%	3.8%	4.4%	4.6%	4.4%	3.8%	3.3%	2.6%	2.6%	2.6%	2.1%	2.0%	2.0%	2.0%	2.1%	1.6%	1.5%	1.7%	1.6%	1.6%	1.6%
	(1) Forecast sub-regional level growth rate of MSW - cumulative (%)	103%	107%	111%	116%	121%	126%	130%	134%	137%	141%	143%	146%	149%	152%	156%	158%	160%	163%	166%	168%	171%
	Total arisings of MSW using sub-regional growth forecasts	0.128	0.133	0.139	0.145	0.151	0.157	0.162	0.167	0.171	0.175	0.179	0.183	0.186	0.190	0.194	0.197	0.200	0.203	0.207	0.210	0.213
c&i	Arisings of C&I in baseline year																					
	(1) Forecast regional level growth rate of C&I - per year (%)	3.3%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.0%	1.0%	1.0%	1.0%	1.0%
	(1) Forecast regional level growth rate of C&I - cumulative (%)	117%	120%	123%	126%	130%	133%	136%	138%	141%	144%	147%	149%	151%	153%	156%	158%	160%	161%	163%	164%	166%
	Total arisings of C&I using regional growth forecasts	0.024	0.025	0.026	0.026	0.027	0.027	0.028	0.029	0.029	0.030	0.030	0.031	0.031	0.032	0.032	0.033	0.033	0.033	0.034	0.034	0.034
	(1) Forecast sub-regional level growth rate of C&I - per year (%)	3.3%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.0%	1.0%	1.0%	1.0%	1.0%
	(1) Forecast sub-regional level growth rate of C&I - cumulative (%)	117%	120%	123%	126%	130%	133%	136%	138%	141%	144%	147%	149%	151%	153%	156%	158%	160%	161%	163%	164%	166%
	Total arisings of C&I using sub-regional growth forecasts	0.024	0.025	0.026	0.026	0.027	0.027	0.028	0.029	0.029	0.030	0.030	0.031	0.031	0.032	0.032	0.033	0.033	0.033	0.034	0.034	0.034
hazardous	Arisings of hazardous waste in baseline year																					
	(2) Forecast regional level growth rate of hazardous waste - per year (%)	3.3%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.0%	1.0%	1.0%	1.0%	1.0%
	Forecast regional level growth rate of hazardous waste - cumulative (%)	107%	109%	112%	115%	118%	121%	123%	126%	128%	131%	133%	135%	137%	139%	141%	144%	145%	146%	148%	149%	151%
	Total arisings of hazardous waste	0.011	0.011	0.011	0.011	0.012	0.012	0.012	0.013	0.013	0.013	0.013	0.013	0.014	0.014	0.014	0.014	0.014	0.015	0.015	0.015	0.015
	(2) Forecast sub-regional level growth rate of hazardous waste - per year (%)	3.3%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.0%	1.0%	1.0%	1.0%	1.0%
	Forecast sub regional level growth rate of hazardous waste - cumulative (%)	107%	109%	112%	115%	118%	121%	123%	126%	128%	131%	133%	135%	137%	139%	141%	144%	145%	146%	148%	149%	151%
	Total arisings of hazardous waste	0.011	0.011	0.011	0.011	0.012	0.012	0.012	0.013	0.013	0.013	0.013	0.013	0.014	0.014	0.014	0.014	0.014	0.015	0.015	0.015	0.015
c&d	Total managed C&D in baseline year																					
	(3) Forecast regional-level growth rate of managed C&D - per year (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Forecast regional-level growth rate of managed C&D - cumulative (%)	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
	(3) Total managed of C&D for the sub-region	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063

Milton Keynes

(1) Figures from SEERA updated waste capacity model by ERM in 2005.
(2) Baseline year of hazardous waste arisings is 2003 from EA Hazardous Waste Interrogator. www.environment-agency.gov.uk/apps/wastesurvey2/. ERM has assumed that growth in hazardous waste is equal to C&I waste.
(3) These data represent managed C&D waste in the sub-region, including all intra-regional and inter-regional movements. Growth is assumed to be zero from the orginal MEL study and updated modeted by ERM in 2005.
NOTE: C&D waste is not included in arisings because this was taken from survey data by Symonds 2001 which gave values for managed C&D waste.

Figure in blue represent data supplied by each sub-region for the new '2006 SEERA Capacity and Need Model'
Figures in orange represent managed waste that are used by the model to calculate results. These can be adjusted for different scenarios.

DATA_02: INTER REGIONAL MOVEMENTS OF MSW and C&I (Million Tonnes)		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw and c&i	Regional level imports of MSW and C&I waste into the SE region from London	1.76	1.716	1.672	1.628	1.584	1.54	1.454	1.368	1.282	1.196	1.11	1.064	1.018	0.972	0.926	0.88	0.86	0.84	0.82	0.8	0.78
	Proportion of regional MSW and C&I imports that go to the sub-region (%)	10.1%	10.1%	10.1%	10.1%	10.1%	10.1%	10.1%	10.1%	10.1%	10.1%	10.1%	10.1%	10.1%	10.1%	10.1%	10.1%	10.1%	10.1%	10.1%	10.1%	10.1%
	(1) Total imports of MSW and C&I from London into sub-region sent direct to landfill	0.178	0.173	0.169	0.164	0.160	0.156	0.147	0.138	0.129	0.121	0.112	0.107	0.103	0.098	0.094	0.089	0.087	0.085	0.083	0.081	0.079
msw	Proportion of total MSW and C&I imports that are MSW (%) - REGIONAL GROWTH FORECAST	84%	84%	84%	84%	84%	84%	84%	84%	84%	84%	84%	84%	84%	84%	84%	84%	84%	84%	84%	84%	84%
	Total imports of MSW into the sub-region from London - REGIONAL GROWTH FORECAST	0.149	0.146	0.142	0.138	0.135	0.131	0.123	0.116	0.109	0.102	0.094	0.090	0.086	0.083	0.079	0.075	0.073	0.071	0.070	0.068	0.067
	Proportion of total MSW and C&I imports that are MSW (%) - SUB-REGIONAL GROWTH FORECAST	84%	84%	84%	85%	85%	85%	85%	85%	85%	85%	85%	86%	86%	86%	86%	86%	86%	86%	86%	86%	86%
	Total imports of MSW into the sub-region from London - SUB-REGIONAL GROWTH FORECAST	0.149	0.146	0.143	0.139	0.136	0.132	0.125	0.118	0.111	0.103	0.096	0.092	0.088	0.084	0.080	0.076	0.075	0.073	0.071	0.070	0.068
c&i	Proportion of total MSW and C&I imports that are C&I (%) - REGIONAL GROWTH FORECAST	16%	16%	16%	16%	16%	16%	16%	16%	16%	16%	16%	16%	16%	16%	16%	16%	16%	16%	16%	16%	16%
	Total imports of C&I into the sub-region from London - REGIONAL GROWTH FORECAST	0.028	0.028	0.027	0.026	0.025	0.025	0.023	0.022	0.021	0.019	0.018	0.017	0.016	0.016	0.015	0.014	0.014	0.013	0.013	0.013	0.012
	Proportion of total MSW and C&I imports that are C&I (%) - SUB-REGIONAL GROWTH FORECAST	16%	16%	16%	15%	15%	15%	15%	15%	15%	15%	15%	14%	14%	14%	14%	14%	14%	14%	14%	14%	14%
	Total imports of C&I into the sub-region from London - SUB-REGIONAL GROWTH FORECAST	0.028	0.027	0.026	0.025	0.024	0.023	0.022	0.020	0.019	0.018	0.016	0.016	0.015	0.014	0.013	0.013	0.012	0.012	0.012	0.011	0.011

(1) Intra-regional and inter-regional movements have been excluded for MSW and C&I waste due to self-sufficiency requirements under PPS10, except for inter-regional movements from London into the sub-region. Apportionment from Policy W3 in the Plan – downloa
Note: Only a figure is available for total combined imports of MSW and C&I waste. ERM has assumed that imports of the seperate waste streams of MSW and C&I was split according to tonnage arisings of MSW and C&I in the sub-region.

DATA_03: MANAGED WASTE USED TO GENERATE RESULTS (Million Tonnes)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	0.128	0.132	0.135	0.138	0.142	0.145	0.148	0.151	0.154	0.157	0.160	0.163	0.165	0.168	0.170	0.173	0.175	0.178	0.181	0.183	0.186
msw - imports from london that are sent direct to non-hazardous landfill	0.149	0.146	0.142	0.138	0.135	0.131	0.123	0.116	0.109	0.102	0.094	0.090	0.086	0.083	0.079	0.075	0.073	0.071	0.070	0.068	0.067
c&i	0.024	0.025	0.026	0.026	0.027	0.027	0.028	0.029	0.029	0.030	0.030	0.031	0.031	0.032	0.032	0.033	0.033	0.033	0.034	0.034	0.034
c&i - imports from london that are sent direct to non-hazardous landfill	0.028	0.028	0.027	0.026	0.025	0.025	0.023	0.022	0.021	0.019	0.018	0.017	0.016	0.016	0.015	0.014	0.014	0.013	0.013	0.013	0.012
c&d	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063	0.063
hazardous	0.011	0.011	0.011	0.011	0.012	0.012	0.012	0.013	0.013	0.013	0.013	0.013	0.014	0.014	0.014	0.014	0.014	0.015	0.015	0.015	0.015

DATA_04: TARGETS (% or Million Tonnes)		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	(1) landfill (Mt)	0.068	0.066	0.062	0.058	0.052	0.045	0.040	0.035	0.030	0.029	0.027	0.026	0.025	0.023	0.022	0.021	0.021	0.021	0.021	0.021	0.021
	recovered (%)	5	6.4	7.8	9.2	10.6	12	14.4	16.8	19.2	21.6	24	24.8	25.6	26.4	27.2	28	27.2	26.4	25.6	24.8	24
	recycled and composted (%)	30	32.0	34.0	36.0	38.0	40	42.0	44.0	46.0	48.0	50	51.0	52.0	53.0	54.0	55	56.0	57.0	58.0	59.0	60
c&i	recovered (%)	14	14.2	14.4	14.6	14.8	15	16.0	17.0	18.0	19.0	20	20.2	20.4	20.6	20.8	21	20.6	20.2	19.8	19.4	19
	recycled and composted (%)	40	42.0	44.0	46.0	48.0	50	51.0	52.0	53.0	54.0	55	56.0	57.0	58.0	59.0	60	61.0	62.0	63.0	64.0	65
c&d	recovered (%)	36	35.4	34.8	34.2	33.6	33	33.6	34.2	34.8	35.4	36	34.4	32.8	31.2	29.6	28	28.4	28.8	29.2	29.6	30
	recycled (%)	45	46.0	47.0	48.0	49.0	50	50.0	50.0	50.0	50.0	50	52.0	54.0	56.0	58.0	60	60.0	60.0	60.0	60.0	60
hazardous	landfill (%)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	recovered (%)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	recycled (%)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

(1) ERM has assumed that the LATS target allowance remains constant at the 2020 value for the years beyond 2020

DATA_05: WASTE STREAM TONNAGES TO MEET TARGETS (Million Tonnes)		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025

This first section of DATA_03 calculates if there is a LATS shortfall or suplus in each year. If there is a LATS shortfall (ie insufficient allowance to landfill non-diverted waste) then the model assumes that this extra waste is recycled/composted and r

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	Total MSW to be recovered and recycled/composted to meet target	0.045	0.051	0.056	0.063	0.069	0.076	0.084	0.092	0.101	0.109	0.119	0.123	0.128	0.133	0.138	0.143	0.146	0.149	0.151	0.154	0.156
	Total MSW not-diverted by targets	0.083	0.081	0.079	0.076	0.073	0.070	0.065	0.059	0.054	0.048	0.042	0.039	0.037	0.035	0.032	0.029	0.029	0.030	0.030	0.030	0.030
	Percentage of MSW that is biodegradable (% by weight)	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68
	Total BMW not-diverted by targets	0.057	0.055	0.053	0.052	0.050	0.047	0.044	0.040	0.036	0.033	0.028	0.027	0.025	0.024	0.022	0.020	0.020	0.020	0.020	0.020	0.020
	LATS shortfall (how much extra is landfilled above LATS target)	-0.012	-0.011	-0.009	-0.006	-0.002	0.003	0.004	0.006	0.007	0.004	0.001	0.001	0.000	0.000	0.000	-0.001	-0.001	-0.001	-0.001	-0.001	-0.001
	Ratio of 'recovered' to 'recycled/composted' for target (%)	14%	17%	19%	20%	22%	23%	26%	28%	29%	31%	32%	33%	33%	33%	33%	34%	33%	32%	31%	30%	29%
	Extra MSW 'recovery' needed due to LATS shortfall	0.000	0.000	0.000	0.000	0.000	*0.001*	*0.001*	*0.002*	*0.002*	*0.001*	*0.000*	*0.000*	*0.000*	*0.000*	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Extra MSW 'recycling/composting' needed due to LATS shortfall	0.000	0.000	0.000	0.000	0.000	*0.002*	*0.003*	*0.004*	*0.005*	*0.003*	*0.001*	*0.001*	*0.000*	*0.000*	0.000	0.000	0.000	0.000	0.000	0.000	0.000

The section below in DATA_03 shows the tonnages by waste to meet targets.

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	Recycling and composting target	0.039	0.042	0.046	0.050	0.054	0.060	0.065	0.071	0.076	0.078	0.081	0.084	0.086	0.089	0.092	0.095	0.098	0.101	0.105	0.108	0.112
	Recovery target	0.006	0.008	0.011	0.013	0.015	0.018	0.022	0.027	0.032	0.035	0.039	0.041	0.042	0.044	0.046	0.048	0.048	0.047	0.046	0.045	0.045
	Non-hazardous landfill	0.083	0.081	0.079	0.076	0.073	0.067	0.060	0.054	0.047	0.044	0.041	0.039	0.037	0.034	0.032	0.029	0.029	0.030	0.030	0.030	0.030
	CHECK COUNTER (should be zero)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
c&i	Recycling and composting target	0.010	0.010	0.011	0.012	0.013	0.014	0.014	0.015	0.015	0.016	0.017	0.017	0.018	0.018	0.019	0.020	0.020	0.021	0.021	0.022	0.022
	Recovery target	0.003	0.004	0.004	0.004	0.004	0.004	0.004	0.005	0.005	0.006	0.006	0.006	0.006	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007
	Non-hazardous landfill	0.011	0.011	0.011	0.010	0.010	0.010	0.009	0.009	0.008	0.008	0.008	0.007	0.007	0.007	0.007	0.006	0.006	0.006	0.006	0.006	0.005
	CHECK COUNTER (should be zero)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
c&d	Recycling target	0.028	0.029	0.030	0.030	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.033	0.034	0.035	0.036	0.038	0.038	0.038	0.038	0.038	0.038
	Recovery target	0.023	0.022	0.022	0.021	0.021	0.021	0.021	0.021	0.022	0.022	0.023	0.022	0.021	0.020	0.019	0.018	0.018	0.018	0.018	0.019	0.019
	Inert landfill	0.012	0.012	0.011	0.011	0.011	0.011	0.010	0.010	0.010	0.009	0.009	0.009	0.008	0.008	0.008	0.008	0.007	0.007	0.007	0.007	0.006
	CHECK COUNTER (should be zero)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
hazardous	Hazardous waste	0.011	0.011	0.011	0.011	0.012	0.012	0.012	0.013	0.013	0.013	0.013	0.013	0.014	0.014	0.014	0.014	0.014	0.015	0.015	0.015	0.015

DATA_06: TOTAL WASTE TONNAGES TO MEET TARGETS (Million Tonnes)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
MSW and C&I recycling and composting target	0.048	0.053	0.057	0.062	0.067	0.074	0.080	0.085	0.091	0.094	0.098	0.101	0.104	0.107	0.111	0.115	0.118	0.122	0.126	0.130	0.134
C&D recycling target	0.028	0.029	0.030	0.030	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.033	0.034	0.035	0.036	0.038	0.038	0.038	0.038	0.038	0.038
MSW and C&I recovery target	0.010	0.012	0.014	0.017	0.019	0.022	0.027	0.032	0.037	0.041	0.045	0.047	0.049	0.051	0.053	0.055	0.055	0.054	0.053	0.052	0.051
C&D recovery target	0.023	0.022	0.022	0.021	0.021	0.021	0.021	0.021	0.022	0.022	0.023	0.022	0.021	0.020	0.019	0.018	0.018	0.018	0.018	0.019	0.019
Non-hazardous landfill	0.095	0.092	0.089	0.086	0.083	0.077	0.070	0.063	0.055	0.052	0.048	0.046	0.044	0.041	0.039	0.036	0.036	0.035	0.035	0.035	0.035
Inert landfill	0.012	0.012	0.011	0.011	0.011	0.011	0.010	0.010	0.010	0.009	0.009	0.009	0.008	0.008	0.008	0.008	0.007	0.007	0.007	0.007	0.006
Hazardous waste	0.011	0.011	0.011	0.011	0.012	0.012	0.012	0.013	0.013	0.013	0.013	0.013	0.014	0.014	0.014	0.014	0.014	0.015	0.015	0.015	0.015

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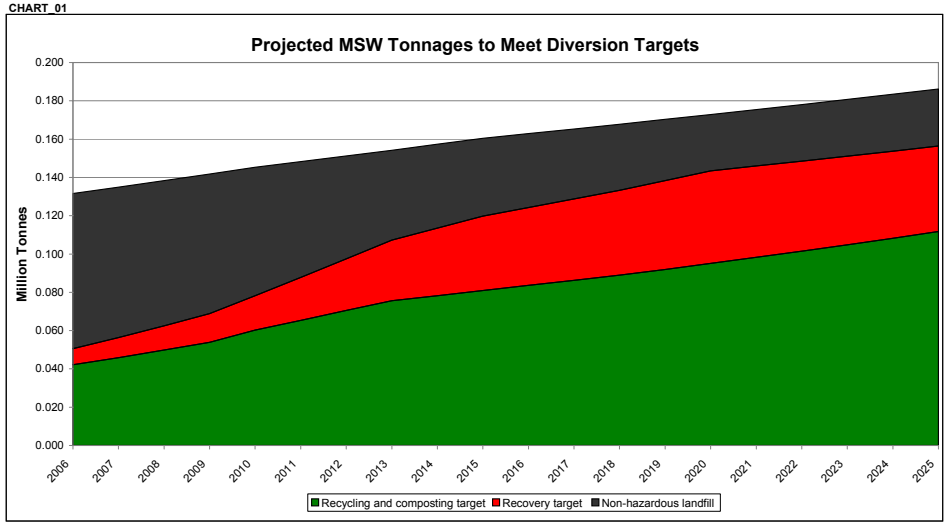
CHART_01



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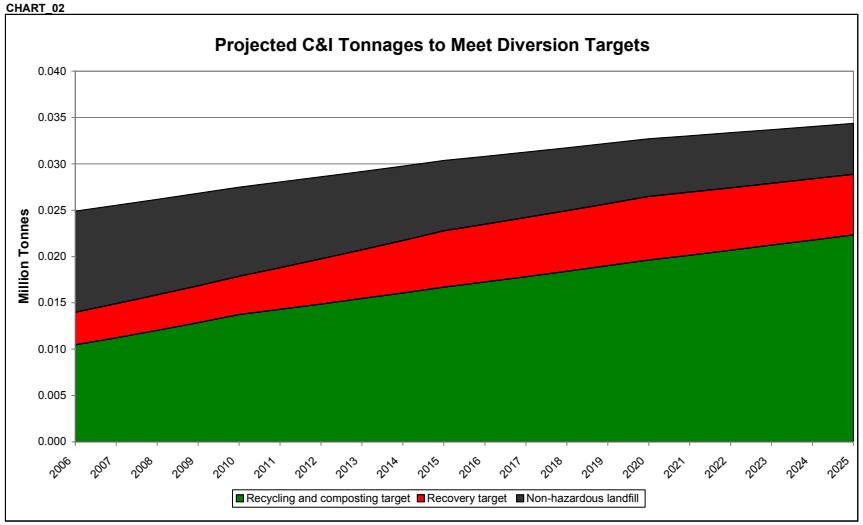

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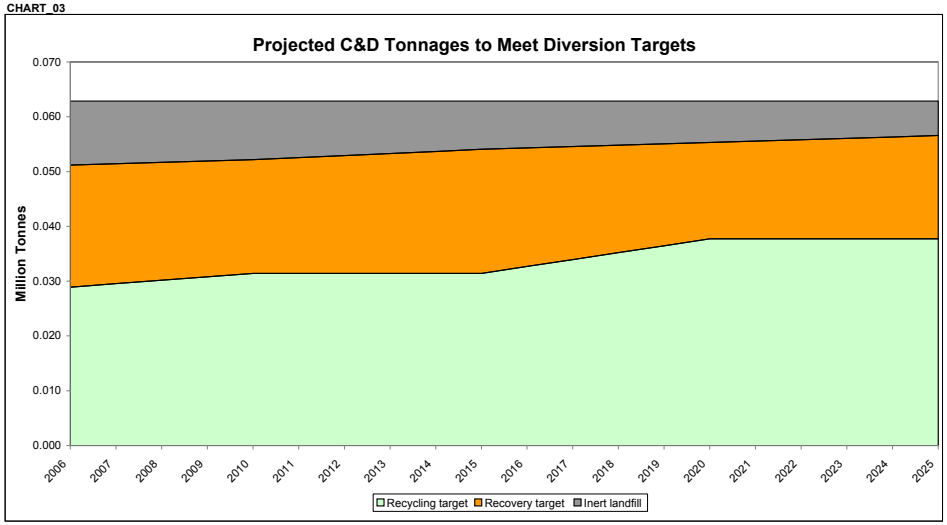

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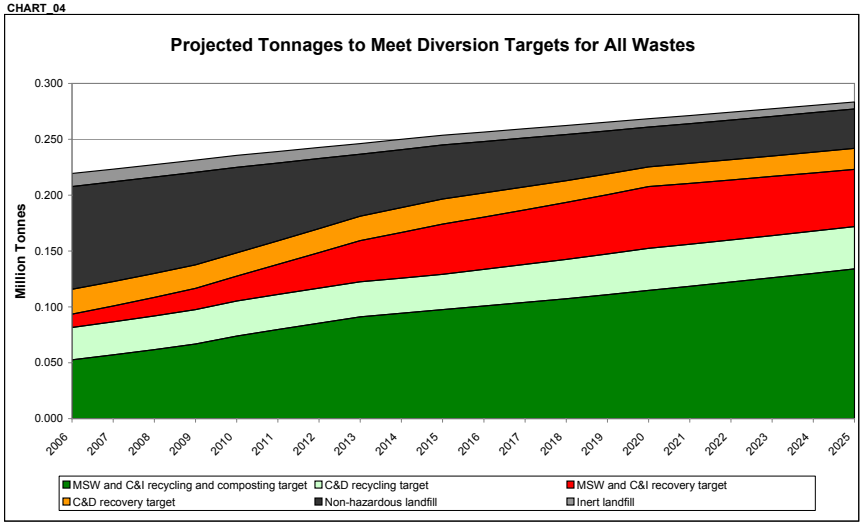

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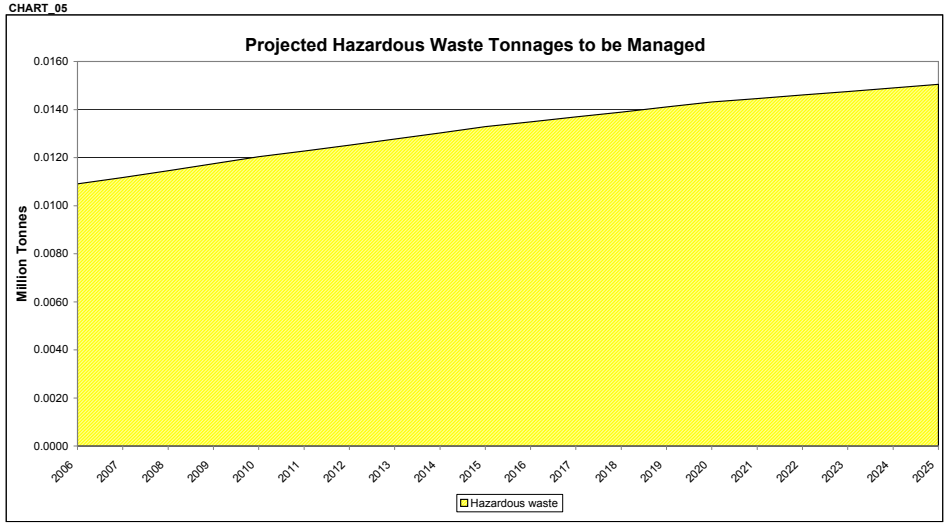
CHART_05



DATA_07: EXISTING/PLANNED CAPACITY FOR RECYCLING, RECOVERY AND LANDFILLING AND TOTAL WASTE TONNAGES TO EACH DISPOSAL ROUTE (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
MSW and C&I recovery																					
MSW and C&I incineration (non-specialist)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
MSW and C&I treatment	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075
Total existing/planned MSW and C&I recovery capacity	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075
Total MSW waste required to meet target	0.006	0.008	0.011	0.013	0.015	0.018	0.022	0.027	0.032	0.035	0.039	0.041	0.042	0.044	0.046	0.048	0.048	0.047	0.046	0.045	0.045
Total C&I waste required to meet target	0.003	0.004	0.004	0.004	0.004	0.004	0.004	0.005	0.005	0.006	0.006	0.006	0.006	0.007	0.007	0.007	0.007	0.007	0.007	0.007	0.007
Surplus/deficit capacity	0.065	0.063	0.061	0.058	0.056	0.053	0.048	0.043	0.038	0.034	0.030	0.028	0.026	0.024	0.022	0.020	0.020	0.021	0.022	0.023	0.024
MSW and C&I recycling and composting																					
MSW and C&I recycling	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093	0.093
MSW and C&I transfer	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148
Total existing/planned MSW and C&I composting capacity	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025	0.025
(1) Total existing/planned MSW and C&I recycling and composting capacity (Baseline: 20% of transfer capacity delivers recycling)	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148	0.148
(2) Total existing/planned MSW and C&I recycling and composting capacity (Sensitivity: 5% of transfer capacity delivers recycling)	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125	0.125
Total MSW waste required to meet recycling and composting target	0.039	0.042	0.046	0.050	0.054	0.060	0.065	0.071	0.076	0.078	0.081	0.084	0.086	0.089	0.092	0.095	0.098	0.101	0.105	0.108	0.112
Total C&I waste required to meet recycling and composting target	0.010	0.010	0.011	0.012	0.013	0.014	0.014	0.015	0.015	0.016	0.017	0.017	0.018	0.018	0.019	0.020	0.020	0.021	0.021	0.022	0.022
Surplus/deficit capacity (Baseline: 20% of transfer capacity delivers recycling)	0.099	0.095	0.090	0.086	0.081	0.074	0.068	0.062	0.056	0.053	0.050	0.047	0.043	0.040	0.037	0.033	0.029	0.025	0.022	0.018	0.014
Surplus/deficit capacity (Sensitivity: 5% of transfer capacity delivers recycling)	0.077	0.073	0.068	0.064	0.059	0.051	0.046	0.040	0.034	0.031	0.028	0.025	0.021	0.018	0.014	0.011	0.007	0.003	-0.001	-0.005	-0.009
C&D recycling																					
(3) Total existing/planned C&D recycling capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total waste required to meet C&D recycling target	0.028	0.029	0.030	0.030	0.031	0.031	0.031	0.031	0.031	0.031	0.031	0.033	0.034	0.035	0.036	0.038	0.038	0.038	0.038	0.038	0.038
Surplus/deficit capacity	-0.028	-0.029	-0.030	-0.030	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031	-0.031	-0.033	-0.034	-0.035	-0.036	-0.038	-0.038	-0.038	-0.038	-0.038	-0.038
C&D recovery																					
REGIONAL total existing/planned C&D recovery capacity	1.877	1.794	1.710	1.627	1.544	1.460	1.439	1.418	1.398	1.377	1.356	1.325	1.293	1.262	1.231	1.199	1.220	1.241	1.262	1.283	1.304
Sub-regional total waste required to meet C&D recovery target	0.023	0.022	0.022	0.021	0.021	0.021	0.021	0.021	0.022	0.022	0.023	0.022	0.021	0.020	0.019	0.018	0.018	0.018	0.018	0.019	0.019
Surplus/deficit capacity	1.855	1.772	1.689	1.605	1.522	1.439	1.418	1.397	1.376	1.354	1.333	1.303	1.273	1.242	1.212	1.182	1.202	1.223	1.244	1.264	1.285
Hazardous waste recycling																					
Total existing/planned hazardous waste recycling capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total hazardous waste to be recycled	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Surplus/deficit capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hazardous waste recovery																					
Total existing/planned hazardous waste recovery capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total hazardous waste to be recovered	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Surplus/deficit capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Non-hazardous landfill																					
Available non-hazardous landfill capacity (excluding residues from MSW and C&I recovery)		22.000	21.724	21.454	21.192	20.936	20.689	20.457	20.241	20.039	19.849	19.671	19.499	19.334	19.175	19.022	18.877	18.733	18.591	18.450	18.310
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'Incineration (non-specialist)'		22.000	21.722	21.450	21.185	20.926	20.677	20.441	20.219	20.012	19.816	19.631	19.452	19.280	19.113	18.953	18.799	18.647	18.496	18.347	18.200
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'MBT'		22.000	21.717	21.439	21.166	20.899	20.640	20.392	20.157	19.933	19.719	19.514	19.315	19.121	18.932	18.748	18.570	18.394	18.220	18.048	17.877
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'RDF'		22.000	21.722	21.451	21.186	20.928	20.679	20.444	20.224	20.017	19.823	19.639	19.462	19.290	19.125	18.967	18.814	18.664	18.515	18.368	18.222
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'treatment'		22.000	21.719	21.443	21.172	20.908	20.651	20.408	20.177	19.958	19.750	19.552	19.359	19.171	18.989	18.813	18.643	18.474	18.308	18.143	17.980
Total MSW and C&I waste sent direct to non-hazardous landfill		0.092	0.089	0.086	0.083	0.077	0.070	0.063	0.055	0.052	0.048	0.046	0.044	0.041	0.039	0.036	0.036	0.035	0.035	0.035	0.035
Inert landfill																					
Available inert landfill capacity		1.128	1.116	1.105	1.094	1.083	1.072	1.062	1.052	1.042	1.033	1.024	1.016	1.007	0.999	0.992	0.984	0.977	0.970	0.963	0.956
Available inert landfill capacity assuming all MSW and C&I recovery by 'Incineration (non-specialist)'		1.128	1.115	1.101	1.087	1.074	1.059	1.045	1.030	1.015	1.000	0.985	0.969	0.953	0.938	0.922	0.906	0.891	0.876	0.861	0.846
Total C&D waste sent direct to inert landfill	0.012	0.012	0.011	0.011	0.011	0.011	0.010	0.010	0.010	0.009	0.009	0.009	0.008	0.008	0.008	0.008	0.007	0.007	0.007	0.007	0.006
Hazardous landfill																					
Available hazardous landfill capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total hazardous waste sent direct to hazardous landfill	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Other																					
Metal/ELV facility	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055	0.055
Ignored	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Closed	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

(1) ERM has assumed that 20% of the total 'transfer' capacity will deliver recycling capacity

(2) ERM has assumed that 5% of the total 'transfer' capacity will deliver recycling capacity

(3) Data for C&D recovery for landfill cover for the SE Region were sourced from the original MEL model, which sourced the data from Symonds (2001)

Note: The capacity model developed by ERM for this study does not include the capacity provided in the 'Others' group in its calculations because these are not relevant to the management of MSW, C&I and C&D. These data are included for the purposes of completeness.

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DATA_08: RESIDUE RATES (%)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Recovery residues (% by weight)																					
MSW and C&I incineration (non-specialist) - bottom ash	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
MSW and C&I incineration (non-specialist) - fly ash	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
MSW and C&I to MBT	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59
MSW and C&I to RDF	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
MSW and C&I treatment - non-hazardous	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45
MSW and C&I treatment - hazardous	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Hazardous waste recovery	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Recycling residues (% by weight)																					
MSW and C&I recycling	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
(2) MSW and C&I transfer	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
MSW and C&I composting	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
C&D recycling	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Hazardous waste recycling	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Other																					
Metal/ELV facility	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Ignored	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Closed	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Note: The capacity model developed by ERM for this study does not include the capacity provided in the 'Others' group in its calculations because these are not relevant to the management of MSW, C&I and C&D. These data are included for the purposes of completeness.

DATA_09: TOTAL RESIDUE (Million Tonnes)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Recovery residues (of waste managed):																					
MSW and C&I incineration (non-specialist) - bottom ash	0.003	0.004	0.004	0.005	0.006	0.007	0.008	0.010	0.011	0.012	0.013	0.014	0.015	0.015	0.016	0.017	0.016	0.016	0.016	0.016	0.015
MSW and C&I incineration (non-specialist) - fly ash	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
MSW and C&I to MBT	0.006	0.007	0.008	0.010	0.011	0.013	0.016	0.019	0.022	0.024	0.027	0.028	0.029	0.030	0.031	0.033	0.032	0.032	0.031	0.031	0.030
MSW and C&I to RDF	0.001	0.001	0.002	0.002	0.002	0.003	0.003	0.004	0.004	0.005	0.005	0.006	0.006	0.006	0.006	0.007	0.007	0.006	0.006	0.006	0.006
MSW and C&I treatment - non-hazardous	0.004	0.005	0.006	0.007	0.009	0.010	0.012	0.014	0.017	0.018	0.020	0.021	0.022	0.023	0.024	0.025	0.025	0.024	0.024	0.023	0.023
MSW and C&I treatment - hazardous	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003
Hazardous waste recovery	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Recycling residues (of waste managed):																					
MSW and C&I recycling and composting	0.007	0.008	0.009	0.009	0.010	0.011	0.012	0.013	0.014	0.014	0.015	0.015	0.016	0.016	0.017	0.017	0.018	0.018	0.019	0.020	0.020
C&D recycling	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.004	0.004	0.004	0.004	0.004	0.004	0.004	0.004
Hazardous waste recycling	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Note: All residues are calculated on the amount of waste arising not on the maount of capacity available. This is complaince with the self-sufficiency requirements of PPS10.

DATA_10: TOTAL MSW AND C&I RESIDUE FROM RECYCLING SENT TO NON-HAZARDOUS LANDFILL (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Total MSW and C&I recycling and composting residue sent to non-hazardous landfill	0.010	0.011	0.012	0.012	0.013	0.014	0.015	0.016	0.017	0.017	0.018	0.018	0.019	0.020	0.020	0.021	0.022	0.022	0.023	0.023	0.024

DATA_11: TOTAL MSW AND C&I RESIDUE FROM RECOVERY SENT TO NON-HAZARDOUS LANDFILL AND C&D RECYCLING (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
SCENARIO 1 - Assumes all recovery is by 'Non-specialist incineration' (based on total recovery capacity)																					
(1) Total MSW and C&I residue sent to non-hazardous landfill assuming all MSW and C&I recovery by 'Non-specialist incineration'	0.001	0.002	0.002	0.002	0.003	0.003	0.004	0.005	0.006	0.006	0.007	0.007	0.007	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
(1) Total MSW and C&I residue sent to inert landfill assuming all MSW and C&I recovery by 'Non-specialist incineration'	0.001	0.002	0.002	0.002	0.003	0.003	0.004	0.005	0.006	0.006	0.007	0.007	0.007	0.008	0.008	0.008	0.008	0.008	0.008	0.008	0.008
SCENARIO 2 - Assumes all recovery is by 'MBT' (based on total recovery capacity)																					
Total MSW and C&I residue sent to non-hazardous landfill	0.006	0.007	0.008	0.010	0.011	0.013	0.016	0.019	0.022	0.024	0.027	0.028	0.029	0.030	0.031	0.033	0.032	0.032	0.031	0.031	0.030
SCENARIO 3 - Assumes all recovery is by 'RDF' (based on total recovery capacity)																					
Total MSW and C&I residue sent to non-hazardous landfill	0.001	0.001	0.002	0.002	0.002	0.003	0.003	0.004	0.004	0.005	0.005	0.006	0.006	0.006	0.006	0.007	0.007	0.006	0.006	0.006	0.006
SCENARIO 4 - Assumes all recovery is by 'treatment' (based on total recovery capacity)																					
Total MSW and C&I residue sent to non-hazardous landfill	0.004	0.005	0.006	0.007	0.009	0.010	0.012	0.014	0.017	0.018	0.020	0.021	0.022	0.023	0.024	0.025	0.025	0.024	0.024	0.023	0.023

(1) It was assumed that 50% of residue from 'non-specialist incineration' is sent to non-hazardous landfill and 50% is sent to inert landfill. In the original model assumptions developed MEL 50% was assumed to go to C&D recycling, rather than to inert landfi

DATA_12: TONNAGES OF C&D REUSED ON NON-HAZARDOUS AND INERT LANDFILL (Million Tonnes)

(1) C&D reused on landfill sites	39 %
(1) C&D reused on exempt sites	61 %
(1) C&D reused on landfill sites sent to 'non-haz landfill'	30 %
(1) C&D reused on landfill sites sent to 'inert landfill'	70 %

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
c&d	Total C&D reused on non-hazardous landfill	0.003	0.003	0.003	0.003	0.002	0.002	0.002	0.003	0.003	0.003	0.003	0.003	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
	Total reused C&D on inert landfill	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.005	0.005	0.005	0.005	0.005	0.005	0.005	0.005

(1) C&D reuse rates based on original model assumptions developed MEL
NOTE: C&D reuse on inert and non-hazardous landfill is not included within the charts because it has been assumed that data supplied by each sub-region has accounted for C&D reuse as an engineering material.

DATA_13: TOTAL MSW AND C&I RESIDUE FROM RECYCLING SENT TO HAZARDOUS LANDFILL (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Total MSW and C&I recycling and composting residue sent to hazardous landfill	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

DATA_14: TOTAL MSW AND C&I RESIDUE FROM RECOVERY SENT TO HAZARDOUS LANDFILL (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
SCENARIO 1 - Assumes all recovery is by 'Non-specialist incineration' (based on total recovery capacity)																					
Total MSW and C&I residue sent to hazardous landfill assuming all MSW and C&I recovery by 'Non-specialist incineration'	0.000	0.000	0.000	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.002	0.002
SCENARIO 2 - Assumes all recovery is by 'MBT' (based on total recovery capacity)																					
Total MSW and C&I residue sent to hazardous landfill	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SCENARIO 3 - Assumes all recovery is by 'RDF' (based on total recovery capacity)																					
Total MSW and C&I residue sent to hazardous landfill	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SCENARIO 4 - Assumes all recovery is by 'treatment' (based on total recovery capacity)																					
Total MSW and C&I residue sent to hazardous landfill	0.000	0.001	0.001	0.001	0.001	0.001	0.001	0.002	0.002	0.002	0.002	0.002	0.002	0.003	0.003	0.003	0.003	0.003	0.003	0.003	0.003

NOTE: This element of the model is redundant. There is currently no hazardous waste capacity figures to generate a chart of managed waste versus available capacity.

DATA_15: TOTAL HAZARDOUS WASTE RESIDUE FROM RECOVERY AND RECYCLING SENT TO HAZARDOUS LANDFILL (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Total hazardous waste recycling and recovery residue sent to hazardous landfill	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Milton Keynes

CHART_06

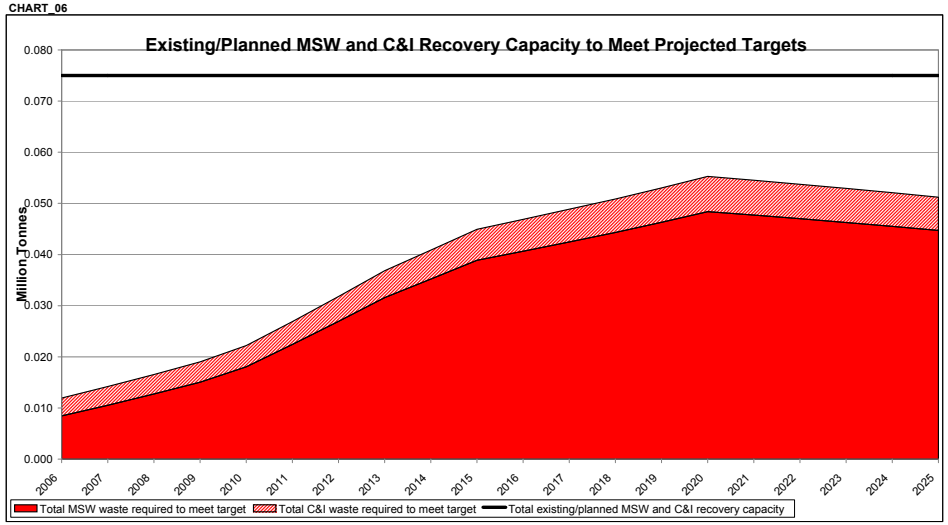
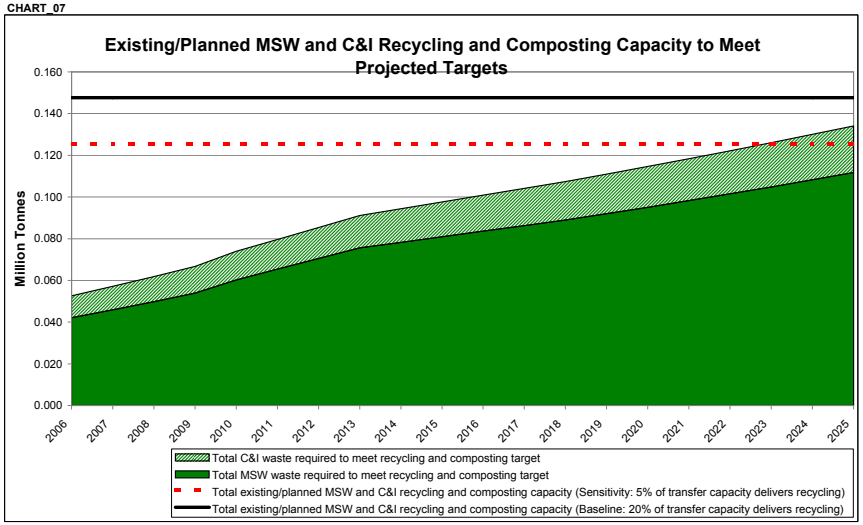


CHART_07



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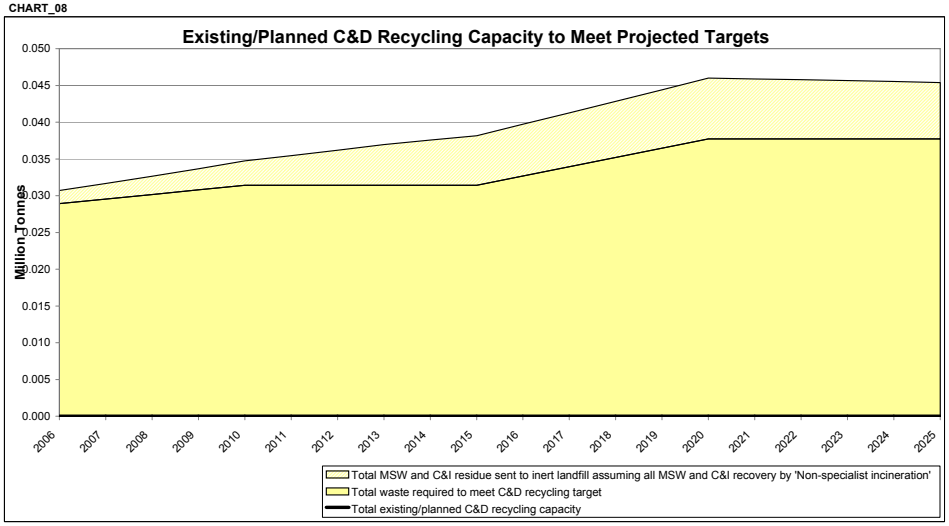


Milton Keynes

CHART_09

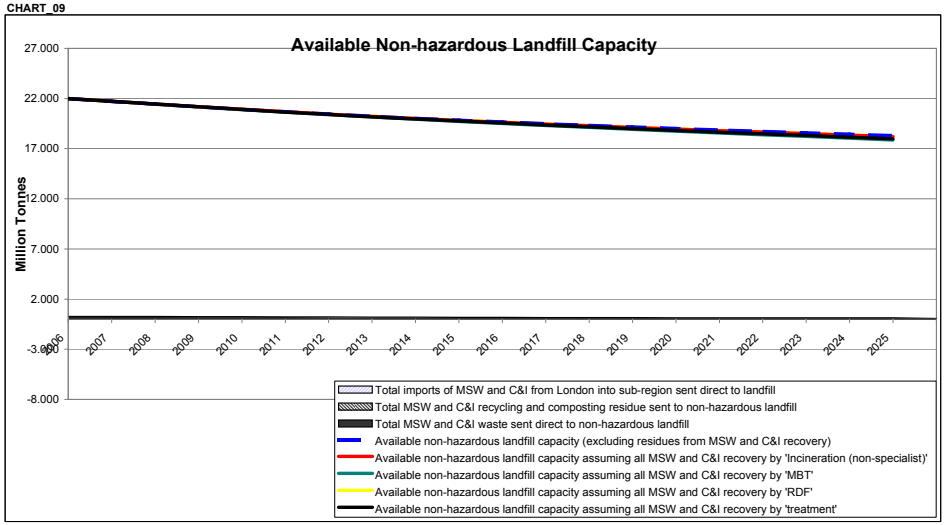
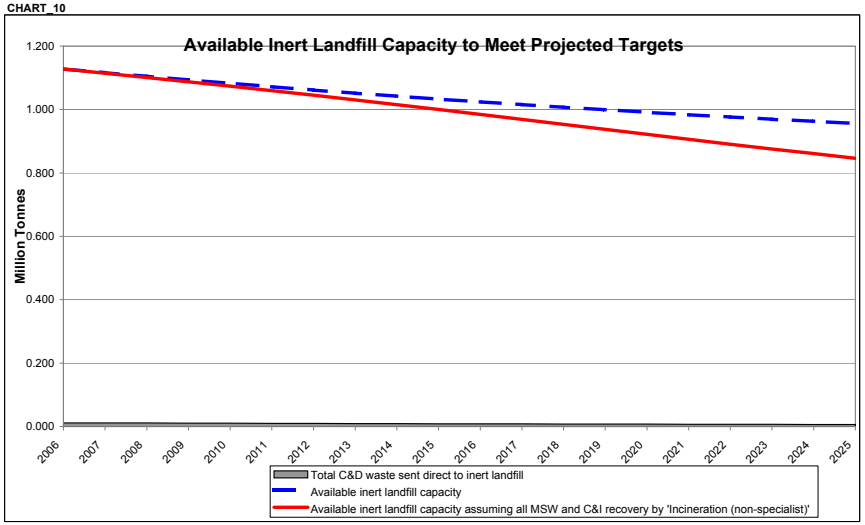


CHART_10



NOTE: The graph assumes that the baseline capacity for non-hazardous landfill has accounted for C&D reuse as a landfill engineering material.

Oxfordshire

SUMMARY DATA AND RESULTS FOR OXFORDSHIRE

MANAGED WASTE USED TO GENERATE RESULTS (Million Tonnes)	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	0.346	0.354	0.363	0.372	0.382	0.389	0.397	0.405	0.413	0.421	0.428	0.434	0.441	0.447	0.454	0.461	0.468	0.475	0.482	0.489
msw - imports from london that are sent direct to non-hazardous landfill	0.108	0.106	0.103	0.100	0.097	0.092	0.086	0.081	0.076	0.070	0.067	0.064	0.061	0.058	0.056	0.054	0.053	0.052	0.051	0.050
c&i	0.585	0.599	0.614	0.630	0.646	0.658	0.672	0.685	0.699	0.713	0.723	0.734	0.745	0.756	0.768	0.776	0.783	0.791	0.799	0.807
c&i - imports from london that are sent direct to non-hazardous landfill	0.183	0.179	0.174	0.169	0.165	0.155	0.146	0.137	0.128	0.119	0.114	0.109	0.104	0.099	0.094	0.092	0.089	0.087	0.085	0.083
c&d	0.755	0.755	0.755	0.755	0.755	0.755	0.755	0.755	0.755	0.755	0.755	0.755	0.755	0.755	0.755	0.755	0.755	0.755	0.755	0.755
hazardous	0.051	0.052	0.054	0.055	0.056	0.058	0.059	0.060	0.061	0.062	0.063	0.064	0.065	0.066	0.067	0.068	0.068	0.069	0.070	0.071

WASTE STREAM TONNAGES TO MEET TARGETS (Million Tonnes)		2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	LATS shortfall (how much extra is landfilled above LATS target)	-0.029	-0.024	-0.018	-0.009	*0.003*	*0.007*	*0.011*	*0.015*	*0.008*	*0.000*	0.000	-0.001	-0.002	-0.003	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004
	Recycling and composting target	0.111	0.120	0.131	0.141	0.155	0.169	0.183	0.197	0.204	0.211	0.218	0.226	0.234	0.241	0.250	0.258	0.267	0.275	0.284	0.293
	Recovery target	0.022	0.028	0.033	0.039	0.046	0.058	0.070	0.082	0.092	0.101	0.106	0.111	0.116	0.122	0.127	0.125	0.123	0.122	0.119	0.117
	Non-hazardous landfill	0.213	0.206	0.199	0.191	0.180	0.162	0.144	0.126	0.118	0.109	0.103	0.097	0.091	0.084	0.077	0.077	0.078	0.078	0.078	0.078
c&i	Recycling and composting target	0.246	0.264	0.283	0.302	0.323	0.336	0.349	0.363	0.377	0.392	0.405	0.419	0.432	0.446	0.461	0.473	0.486	0.498	0.511	0.525
	Recovery target	0.083	0.086	0.090	0.093	0.097	0.105	0.114	0.123	0.133	0.143	0.146	0.150	0.154	0.157	0.161	0.160	0.158	0.157	0.155	0.153
	Non-hazardous landfill	0.256	0.249	0.242	0.234	0.226	0.217	0.208	0.199	0.189	0.178	0.172	0.166	0.159	0.153	0.146	0.143	0.139	0.136	0.133	0.129
c&d	Recycling target	0.347	0.355	0.362	0.370	0.377	0.377	0.377	0.377	0.377	0.377	0.393	0.408	0.423	0.438	0.453	0.453	0.453	0.453	0.453	0.453
	Recovery target	0.267	0.263	0.258	0.254	0.249	0.254	0.258	0.263	0.267	0.272	0.260	0.248	0.236	0.223	0.211	0.214	0.217	0.220	0.223	0.226
	Inert landfill	0.140	0.137	0.134	0.131	0.128	0.124	0.119	0.115	0.110	0.106	0.103	0.100	0.097	0.094	0.091	0.088	0.085	0.082	0.079	0.075
hazardous	Hazardous waste	0.051	0.052	0.054	0.055	0.056	0.058	0.059	0.060	0.061	0.062	0.063	0.064	0.065	0.066	0.067	0.068	0.068	0.069	0.070	0.071

Note: If there is a LATS shortfall, denoted by a positive number, (ie insufficient allowance to landfill non-diverted waste) then the model assumes that this extra waste is recycled/composted and recovered at the same ratio as the regional targets for recycling/composting and recovery for that year.

EXISTING/PLANNED CAPACITY FOR RECYCLING, RECOVERY AND LANDFILLING AND TOTAL WASTE TONNAGES TO EACH DISPOSAL ROUTE (Million Tonnes)	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
MSW and C&I recovery																				
Total existing/planned MSW and C&I recovery capacity	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075
Surplus/deficit capacity	-0.030	-0.039	-0.048	-0.058	-0.068	-0.088	-0.109	-0.130	-0.149	-0.169	-0.177	-0.186	-0.195	-0.204	-0.213	-0.210	-0.207	-0.203	-0.199	-0.196
MSW and C&I recycling and composting																				
Total existing/planned MSW and C&I recycling and composting capacity (Baseline: 20% of transfer capacity delivers recycling)	0.808	0.808	0.808	0.808	0.808	0.808	0.808	0.808	0.808	0.808	0.808	0.808	0.808	0.808	0.808	0.808	0.808	0.808	0.808	0.808
Total existing/planned MSW and C&I recycling and composting capacity (Sensitivity: 5% of transfer capacity delivers recycling)	0.774	0.774	0.774	0.774	0.774	0.774	0.774	0.774	0.774	0.774	0.774	0.774	0.774	0.774	0.774	0.774	0.774	0.774	0.774	0.774
Surplus/deficit capacity (Baseline: 20% of transfer capacity delivers recycling)	0.452	0.424	0.395	0.364	0.330	0.303	0.276	0.248	0.227	0.205	0.185	0.164	0.142	0.120	0.098	0.077	0.056	0.034	0.012	-0.010
Surplus/deficit capacity (Sensitivity: 5% of transfer capacity delivers recycling)	0.418	0.390	0.361	0.330	0.296	0.269	0.242	0.214	0.193	0.171	0.151	0.130	0.108	0.086	0.064	0.043	0.022	0.000	-0.022	-0.044
C&D recycling																				
Total existing/planned C&D recycling capacity	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107
Surplus/deficit capacity	-0.240	-0.247	-0.255	-0.262	-0.270	-0.270	-0.270	-0.270	-0.270	-0.270	-0.285	-0.300	-0.315	-0.330	-0.345	-0.345	-0.345	-0.345	-0.345	-0.345
C&D recovery																				
REGIONAL total existing/planned C&D recovery capacity	1.794	1.710	1.627	1.544	1.460	1.439	1.418	1.398	1.377	1.356	1.325	1.293	1.262	1.231	1.199	1.220	1.241	1.262	1.283	1.304
Surplus/deficit capacity	1.527	1.448	1.369	1.290	1.211	1.186	1.160	1.135	1.109	1.084	1.065	1.046	1.026	1.007	0.988	1.006	1.024	1.041	1.059	1.077
Hazardous waste recycling																				
Total existing/planned hazardous waste recycling capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Surplus/deficit capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hazardous waste recovery																				
Total existing/planned hazardous waste recovery capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Surplus/deficit capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Non-hazardous landfill																				
Available non-hazardous landfill capacity (excluding residues from MSW and C&I recovery)	11.110	10.261	9.428	8.612	7.813	7.036	6.296	5.593	4.929	4.294	3.690	3.100	2.527	1.969	1.428	0.903	0.382	-0.136	-0.651	-1.162
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'Incineration (non-specialist)'	11.096	10.231	9.381	8.546	7.728	6.929	6.164	5.434	4.738	4.070	3.429	2.802	2.189	1.591	1.008	0.440	-0.124	-0.684	-1.240	-1.793
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'MBT'	11.053	10.142	9.242	8.353	7.476	6.614	5.778	4.966	4.181	3.414	2.665	1.927	1.200	0.483	-0.223	-0.918	-1.607	-2.291	-2.970	-3.643
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'RDF'	11.099	10.237	9.390	8.559	7.745	6.950	6.190	5.466	4.776	4.115	3.481	2.862	2.257	1.667	1.092	0.533	-0.023	-0.574	-1.122	-1.667
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'treatment'	11.067	10.170	9.286	8.414	7.556	6.714	5.900	5.115	4.358	3.622	2.908	2.206	1.515	0.836	0.169	-0.485	-1.135	-1.780	-2.420	-3.054
Inert landfill																				
Available inert landfill capacity	4.132	3.992	3.854	3.720	3.589	3.460	3.336	3.217	3.102	2.992	2.886	2.784	2.684	2.587	2.494	2.403	2.316	2.231	2.150	2.071
Available inert landfill capacity assuming all MSW and C&I recovery by 'Incineration (non-specialist)'	4.118	3.961	3.807	3.654	3.503	3.353	3.205	3.058	2.912	2.768	2.626	2.486	2.347	2.210	2.074	1.940	1.810	1.683	1.560	1.440
Hazardous landfill																				
Available hazardous landfill capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Note: The model does not contain data for the management of hazardous waste.

DATA_01: ARISINGS AND GROWTH RATES OF MSW, C&I AND HAZARDOUS WASTE (Million Tonnes)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw Arisings of MSW in baseline year																					
(1) Forecast regional level growth rate of MSW - per year (%)	3.0%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%
(1) Forecast regional level growth rate of MSW - cumulative (%)	109%	112%	115%	118%	121%	124%	126%	129%	131%	134%	136%	139%	141%	143%	145%	147%	149%	151%	154%	156%	158%
Total arisings of MSW using regional growth forecasts	0.337	0.346	0.354	0.363	0.372	0.382	0.389	0.397	0.405	0.413	0.421	0.428	0.434	0.441	0.447	0.454	0.461	0.468	0.475	0.482	0.489
(1) Forecast sub-regional growth rate of MSW - per year (%)	3.0%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%
(1) Forecast sub-regional level growth rate of MSW - cumulative (%)	109%	112%	115%	118%	121%	124%	126%	129%	131%	134%	136%	139%	141%	143%	145%	147%	149%	151%	154%	156%	158%
Total arisings of MSW using sub-regional growth forecasts	0.337	0.346	0.354	0.363	0.372	0.382	0.389	0.397	0.405	0.413	0.421	0.428	0.434	0.441	0.447	0.454	0.461	0.468	0.475	0.482	0.489
c&i Arisings of C&I in baseline year																					
(1) Forecast regional level growth rate of C&I - per year (%)	3.3%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.0%	1.0%	1.0%	1.0%	1.0%
(1) Forecast regional level growth rate of C&I - cumulative (%)	117%	120%	123%	126%	130%	133%	136%	138%	141%	144%	147%	149%	151%	153%	156%	158%	160%	161%	163%	164%	166%
Total arisings of C&I using regional growth forecasts	0.571	0.585	0.599	0.614	0.630	0.646	0.658	0.672	0.685	0.699	0.713	0.723	0.734	0.745	0.756	0.768	0.776	0.783	0.791	0.799	0.807
(1) Forecast sub-regional level growth rate of C&I - per year (%)	3.3%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.0%	1.0%	1.0%	1.0%	1.0%
(1) Forecast sub-regional level growth rate of C&I - cumulative (%)	117%	120%	123%	126%	130%	133%	136%	138%	141%	144%	147%	149%	151%	153%	156%	158%	160%	161%	163%	164%	166%
Total arisings of C&I using sub-regional growth forecasts	0.571	0.585	0.599	0.614	0.630	0.646	0.658	0.672	0.685	0.699	0.713	0.723	0.734	0.745	0.756	0.768	0.776	0.783	0.791	0.799	0.807
hazardous Arisings of hazardous waste in baseline year																					
(2) Forecast regional level growth rate of hazardous waste - per year (%)	3.3%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.0%	1.0%	1.0%	1.0%	1.0%
Forecast regional level growth rate of hazardous waste - cumulative (%)	107%	109%	112%	115%	118%	121%	123%	126%	128%	131%	133%	135%	137%	139%	141%	144%	145%	146%	148%	149%	151%
Total arisings of hazardous waste	0.050	0.051	0.052	0.054	0.055	0.056	0.058	0.059	0.060	0.061	0.062	0.063	0.064	0.065	0.066	0.067	0.068	0.068	0.069	0.070	0.071
(2) Forecast sub-regional level growth rate of hazardous waste - per year (%)	3.3%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.0%	1.0%	1.0%	1.0%	1.0%
Forecast sub regional level growth rate of hazardous waste - cumulative (%)	107%	109%	112%	115%	118%	121%	123%	126%	128%	131%	133%	135%	137%	139%	141%	144%	145%	146%	148%	149%	151%
Total arisings of hazardous waste	0.050	0.051	0.052	0.054	0.055	0.056	0.058	0.059	0.060	0.061	0.062	0.063	0.064	0.065	0.066	0.067	0.068	0.068	0.069	0.070	0.071
c&d Total managed C&D in baseline year																					
(3) Forecast regional-level growth rate of managed C&D - per year (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Forecast regional-level growth rate of managed C&D - cumulative (%)	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
(3) Total managed of C&D for the sub-region	0.755	0.755	0.755	0.755	0.755	0.755	0.755	0.755	0.755	0.755	0.755	0.755	0.755	0.755	0.755	0.755	0.755	0.755	0.755	0.755	0.755

(1) Figures from SEERA updated waste capacity model by ERM in 2005.
(2) Baseline year of hazardous waste arisings is 2003 from EA Hazardous Waste Interrogator. www.environment-agency.gov.uk/apps/wastesurvey2/. ERM has assumed that growth in hazardous waste is equal to C&I waste.
(3) These data represent managed C&D waste in the sub-region, including all intra-regional and inter-regional movements. Growth is assumed to be zero from the orginal MEL study and updated modeted by ERM in 2005.
NOTE: C&D waste is not included in arisings because this was taken from survey data by Symonds 2001 which gave values for managed C&D waste.

Oxfordshire

Figure in blue represent data supplied by each sub-region for the new '2006 SEERA Capacity and Need Model'
Figures in orange represent managed waste that are used by the model to calculate results. These can be adjusted for different scenarios.

DATA_02: INTER REGIONAL MOVEMENTS OF MSW and C&I (Million Tonnes)		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw and c&i	Regional level imports of MSW and C&I waste into the SE region from London	1.76	1.716	1.672	1.628	1.584	1.54	1.454	1.368	1.282	1.196	1.11	1.064	1.018	0.972	0.926	0.88	0.86	0.84	0.82	0.8	0.78
	Proportion of regional MSW and C&I imports that go to the sub-region (%)	17.0%	17.0%	17.0%	17.0%	17.0%	17.0%	17.0%	17.0%	17.0%	17.0%	17.0%	17.0%	17.0%	17.0%	17.0%	17.0%	17.0%	17.0%	17.0%	17.0%	17.0%
	(1) Total imports of MSW and C&I from London into sub-region sent direct to landfill	0.299	0.292	0.284	0.277	0.269	0.262	0.247	0.233	0.218	0.203	0.189	0.181	0.173	0.165	0.157	0.150	0.146	0.143	0.139	0.136	0.133
msw	Proportion of total MSW and C&I imports that are MSW (%) - REGIONAL GROWTH FORECAST	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	38%	38%
	Total imports of MSW into the sub-region from London - REGIONAL GROWTH FORECAST	0.111	0.108	0.106	0.103	0.100	0.097	0.092	0.086	0.081	0.076	0.070	0.067	0.064	0.061	0.058	0.056	0.054	0.053	0.052	0.051	0.050
	Proportion of total MSW and C&I imports that are MSW (%) - SUB-REGIONAL GROWTH FORECAST	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	37%	38%	38%
	Total imports of MSW into the sub-region from London - SUB-REGIONAL GROWTH FORECAST	0.111	0.108	0.106	0.103	0.100	0.097	0.092	0.086	0.081	0.076	0.070	0.067	0.064	0.061	0.058	0.056	0.054	0.053	0.052	0.051	0.050
c&i	Proportion of total MSW and C&I imports that are C&I (%) - REGIONAL GROWTH FORECAST	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	62%	62%
	Total imports of C&I into the sub-region from London - REGIONAL GROWTH FORECAST	0.188	0.183	0.179	0.174	0.169	0.165	0.155	0.146	0.137	0.128	0.119	0.114	0.109	0.104	0.099	0.094	0.092	0.089	0.087	0.085	0.083
	Proportion of total MSW and C&I imports that are C&I (%) - SUB-REGIONAL GROWTH FORECAST	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	63%	62%	62%
	Total imports of C&I into the sub-region from London - SUB-REGIONAL GROWTH FORECAST	0.188	0.183	0.179	0.174	0.169	0.165	0.155	0.146	0.137	0.128	0.119	0.114	0.109	0.104	0.099	0.094	0.092	0.089	0.087	0.085	0.083

(1) Intra-regional and inter-regional movements have been excluded for MSW and C&I waste due to self-sufficiency requirements under PPS10, except for inter-regional movements from London into the sub-region. Apportionment from Policy W3 in the Plan – downloa
Note: Only a figure is available for total combined imports of MSW and C&I waste. ERM has assumed that imports of the seperate waste streams of MSW and C&I was split according to tonnage arisings of MSW and C&I in the sub-region.

DATA_03: MANAGED WASTE USED TO GENERATE RESULTS (Million Tonnes)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	0.337	0.346	0.354	0.363	0.372	0.382	0.389	0.397	0.405	0.413	0.421	0.428	0.434	0.441	0.447	0.454	0.461	0.468	0.475	0.482	0.489
msw - imports from london that are sent direct to non-hazardous landfill	0.111	0.108	0.106	0.103	0.100	0.097	0.092	0.086	0.081	0.076	0.070	0.067	0.064	0.061	0.058	0.056	0.054	0.053	0.052	0.051	0.050
c&i	0.571	0.585	0.599	0.614	0.630	0.646	0.658	0.672	0.685	0.699	0.713	0.723	0.734	0.745	0.756	0.768	0.776	0.783	0.791	0.799	0.807
c&I - imports from london that are sent direct to non-hazardous landfill	0.188	0.183	0.179	0.174	0.169	0.165	0.155	0.146	0.137	0.128	0.119	0.114	0.109	0.104	0.099	0.094	0.092	0.089	0.087	0.085	0.083
c&d	0.755	0.755	0.755	0.755	0.755	0.755	0.755	0.755	0.755	0.755	0.755	0.755	0.755	0.755	0.755	0.755	0.755	0.755	0.755	0.755	0.755
hazardous	0.050	0.051	0.052	0.054	0.055	0.056	0.058	0.059	0.060	0.061	0.062	0.063	0.064	0.065	0.066	0.067	0.068	0.068	0.069	0.070	0.071

DATA_04: TARGETS (% or Million Tonnes)		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	(1) landfill (Mt)	0.179	0.173	0.165	0.153	0.139	0.122	0.108	0.095	0.081	0.078	0.074	0.071	0.067	0.064	0.060	0.057	0.057	0.057	0.057	0.057	0.057
	recovered (%)	5	6.4	7.8	9.2	10.6	12	14.4	16.8	19.2	21.6	24	24.8	25.6	26.4	27.2	28	27.2	26.4	25.6	24.8	24
	recycled and composted (%)	30	32.0	34.0	36.0	38.0	40	42.0	44.0	46.0	48.0	50	51.0	52.0	53.0	54.0	55	56.0	57.0	58.0	59.0	60
c&i	recovered (%)	14	14.2	14.4	14.6	14.8	15	16.0	17.0	18.0	19.0	20	20.2	20.4	20.6	20.8	21	20.6	20.2	19.8	19.4	19
	recycled and composted (%)	40	42.0	44.0	46.0	48.0	50	51.0	52.0	53.0	54.0	55	56.0	57.0	58.0	59.0	60	61.0	62.0	63.0	64.0	65
c&d	recovered (%)	36	35.4	34.8	34.2	33.6	33	33.6	34.2	34.8	35.4	36	34.4	32.8	31.2	29.6	28	28.4	28.8	29.2	29.6	30
	recycled (%)	45	46.0	47.0	48.0	49.0	50	50.0	50.0	50.0	50.0	50	52.0	54.0	56.0	58.0	60	60.0	60.0	60.0	60.0	60
hazardous	landfill (%)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	recovered (%)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	recycled (%)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

(1) ERM has assumed that the LATS target allowance remains constant at the 2020 value for the years beyond 2020

DATA_05: WASTE STREAM TONNAGES TO MEET TARGETS (Million Tonnes)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025

This first section of DATA_03 calculates if there is a LATS shortfall or suplus in each year. If there is a LATS shortfall (ie insufficient allowance to landfill non-diverted waste) then the model assumes that this extra waste is recycled/composted and r

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	Total MSW to be recovered and recycled/composted to meet target	0.118	0.133	0.148	0.164	0.181	0.198	0.220	0.241	0.264	0.288	0.312	0.324	0.337	0.350	0.363	0.377	0.383	0.390	0.397	0.404	0.411
	Total MSW not-diverted by targets	0.219	0.213	0.206	0.199	0.191	0.183	0.170	0.156	0.141	0.126	0.110	0.103	0.097	0.091	0.084	0.077	0.077	0.078	0.078	0.078	0.078
	Percentage of MSW that is biodegradable (% by weight)	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68
	Total BMW not-diverted by targets	0.149	0.145	0.140	0.135	0.130	0.125	0.115	0.106	0.096	0.085	0.074	0.070	0.066	0.062	0.057	0.052	0.053	0.053	0.053	0.053	0.053
	LATS shortfall (how much extra is landfilled above LATS target)	-0.030	-0.029	-0.024	-0.018	-0.009	0.003	0.007	0.011	0.015	0.008	0.000	0.000	-0.001	-0.002	-0.003	-0.004	-0.004	-0.004	-0.004	-0.004	-0.004
	Ratio of 'recovered' to 'recycled/composted' for target (%)	14%	17%	19%	20%	22%	23%	26%	28%	29%	31%	32%	33%	33%	33%	33%	34%	33%	32%	31%	30%	29%
	Extra MSW 'recovery' needed due to LATS shortfall	0.000	0.000	0.000	0.000	0.000	*0.001*	*0.002*	*0.003*	*0.004*	*0.002*	*0.000*	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Extra MSW 'recycling/composting' needed due to LATS shortfall	0.000	0.000	0.000	0.000	0.000	*0.002*	*0.005*	*0.008*	*0.010*	*0.005*	*0.000*	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

The section below in DATA_03 shows the tonnages by waste to meet targets.

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	Recycling and composting target	0.101	0.111	0.120	0.131	0.141	0.155	0.169	0.183	0.197	0.204	0.211	0.218	0.226	0.234	0.241	0.250	0.258	0.267	0.275	0.284	0.293
	Recovery target	0.017	0.022	0.028	0.033	0.039	0.046	0.058	0.070	0.082	0.092	0.101	0.106	0.111	0.116	0.122	0.127	0.125	0.123	0.122	0.119	0.117
	Non-hazardous landfill	0.219	0.213	0.206	0.199	0.191	0.180	0.162	0.144	0.126	0.118	0.109	0.103	0.097	0.091	0.084	0.077	0.077	0.078	0.078	0.078	0.078
	CHECK COUNTER (should be zero)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
c&i	Recycling and composting target	0.228	0.246	0.264	0.283	0.302	0.323	0.336	0.349	0.363	0.377	0.392	0.405	0.419	0.432	0.446	0.461	0.473	0.486	0.498	0.511	0.525
	Recovery target	0.080	0.083	0.086	0.090	0.093	0.097	0.105	0.114	0.123	0.133	0.143	0.146	0.150	0.154	0.157	0.161	0.160	0.158	0.157	0.155	0.153
	Non-hazardous landfill	0.262	0.256	0.249	0.242	0.234	0.226	0.217	0.208	0.199	0.189	0.178	0.172	0.166	0.159	0.153	0.146	0.143	0.139	0.136	0.133	0.129
	CHECK COUNTER (should be zero)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

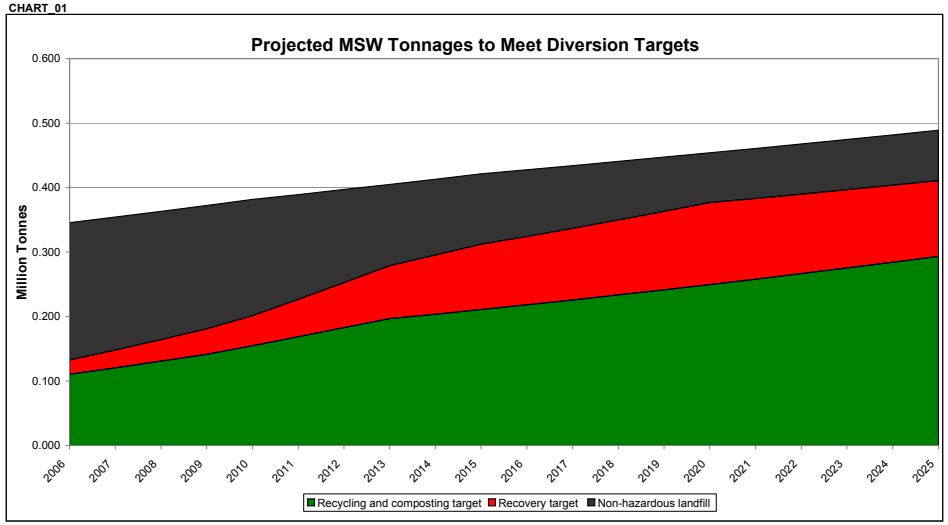
		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
c&d	Recycling target	0.340	0.347	0.355	0.362	0.370	0.377	0.377	0.377	0.377	0.377	0.377	0.393	0.408	0.423	0.438	0.453	0.453	0.453	0.453	0.453	0.453
	Recovery target	0.272	0.267	0.263	0.258	0.254	0.249	0.254	0.258	0.263	0.267	0.272	0.260	0.248	0.236	0.223	0.211	0.214	0.217	0.220	0.223	0.226
	Inert landfill	0.143	0.140	0.137	0.134	0.131	0.128	0.124	0.119	0.115	0.110	0.106	0.103	0.100	0.097	0.094	0.091	0.088	0.085	0.082	0.079	0.075
	CHECK COUNTER (should be zero)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
hazardous	Hazardous waste	0.050	0.051	0.052	0.054	0.055	0.056	0.058	0.059	0.060	0.061	0.062	0.063	0.064	0.065	0.066	0.067	0.068	0.068	0.069	0.070	0.071

DATA_06: TOTAL WASTE TONNAGES TO MEET TARGETS (Million Tonnes)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
MSW and C&I recycling and composting target	0.329	0.356	0.384	0.413	0.444	0.478	0.505	0.532	0.560	0.581	0.603	0.623	0.644	0.666	0.688	0.710	0.731	0.752	0.774	0.796	0.818
C&D recycling target	0.340	0.347	0.355	0.362	0.370	0.377	0.377	0.377	0.377	0.377	0.377	0.393	0.408	0.423	0.438	0.453	0.453	0.453	0.453	0.453	0.453
MSW and C&I recovery target	0.097	0.105	0.114	0.123	0.133	0.143	0.163	0.184	0.205	0.224	0.244	0.252	0.261	0.270	0.279	0.288	0.285	0.282	0.278	0.274	0.271
C&D recovery target	0.272	0.267	0.263	0.258	0.254	0.249	0.254	0.258	0.263	0.267	0.272	0.260	0.248	0.236	0.223	0.211	0.214	0.217	0.220	0.223	0.226
Non-hazardous landfill	0.482	0.469	0.456	0.441	0.426	0.406	0.380	0.353	0.325	0.306	0.287	0.276	0.263	0.250	0.237	0.223	0.220	0.217	0.214	0.211	0.207
Inert landfill	0.143	0.140	0.137	0.134	0.131	0.128	0.124	0.119	0.115	0.110	0.106	0.103	0.100	0.097	0.094	0.091	0.088	0.085	0.082	0.079	0.075
Hazardous waste	0.050	0.051	0.052	0.054	0.055	0.056	0.058	0.059	0.060	0.061	0.062	0.063	0.064	0.065	0.066	0.067	0.068	0.068	0.069	0.070	0.071

Oxfordshire

CHART_01



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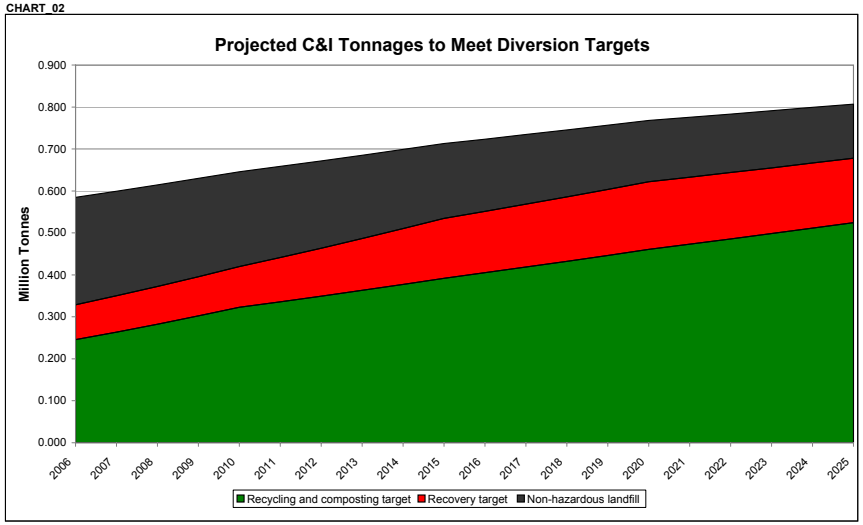

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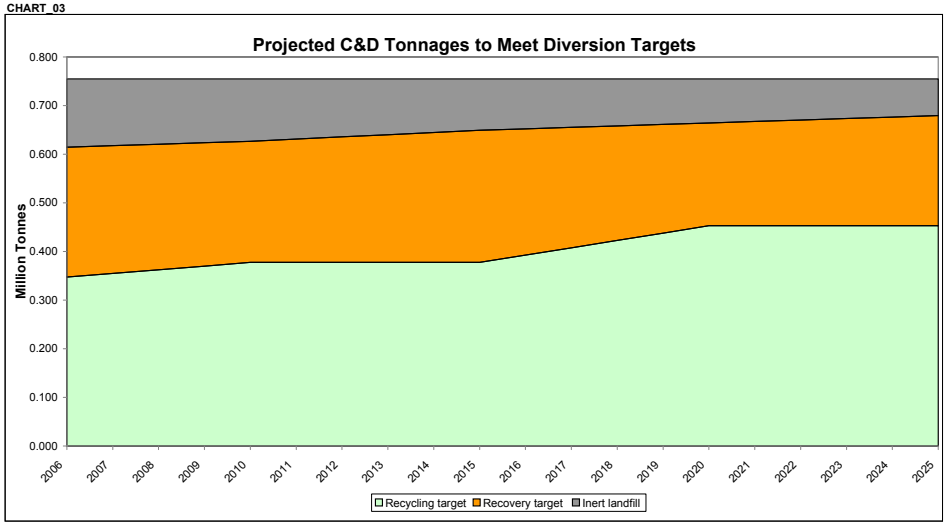

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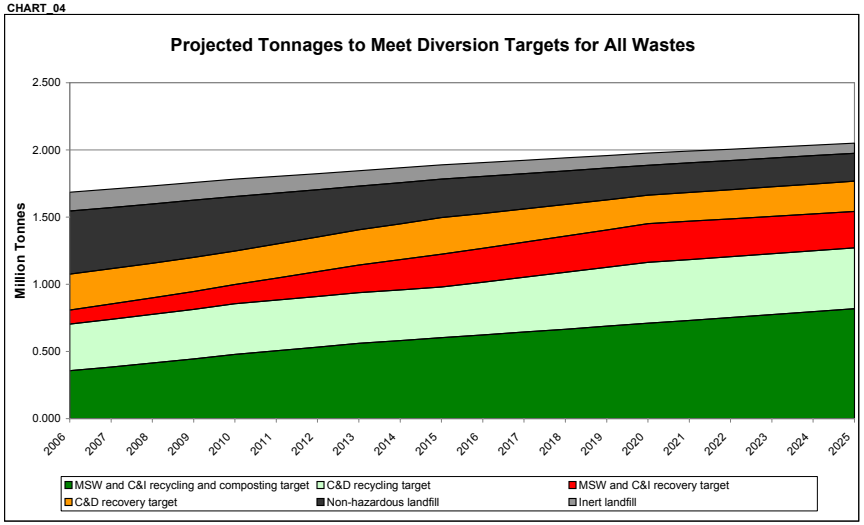
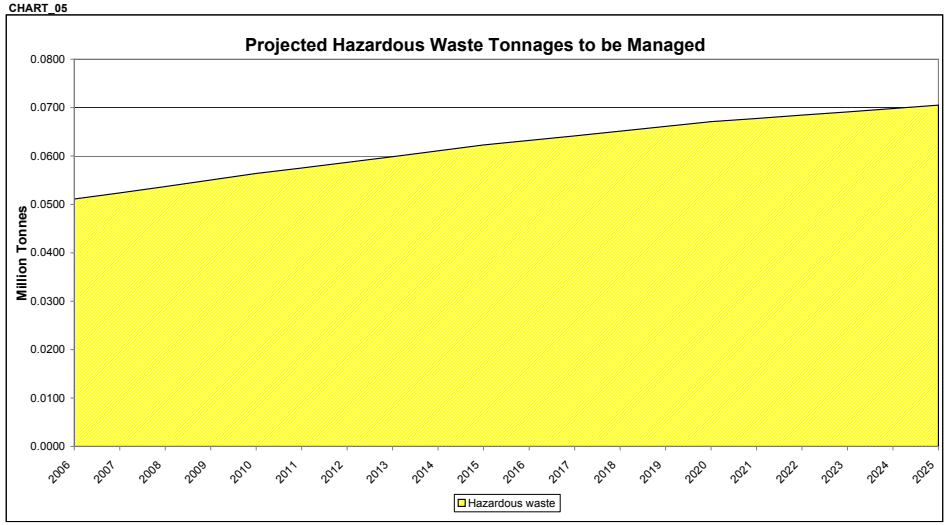


Oxfordshire

CHART_05



DATA_07: EXISTING/PLANNED CAPACITY FOR RECYCLING, RECOVERY AND LANDFILLING AND TOTAL WASTE TONNAGES TO EACH DISPOSAL ROUTE (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
MSW and C&I recovery																					
MSW and C&I incineration (non-specialist)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
MSW and C&I treatment	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075
Total existing/planned MSW and C&I recovery capacity	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075	0.075
Total MSW waste required to meet target	0.017	0.022	0.028	0.033	0.039	0.046	0.058	0.070	0.082	0.092	0.101	0.106	0.111	0.116	0.122	0.127	0.125	0.123	0.122	0.119	0.117
Total C&I waste required to meet target	0.080	0.083	0.086	0.090	0.093	0.097	0.105	0.114	0.123	0.133	0.143	0.146	0.150	0.154	0.157	0.161	0.160	0.158	0.157	0.155	0.153
Surplus/deficit capacity	-0.022	-0.030	-0.039	-0.048	-0.058	-0.068	-0.088	-0.109	-0.130	-0.149	-0.169	-0.177	-0.186	-0.195	-0.204	-0.213	-0.210	-0.207	-0.203	-0.199	-0.196
MSW and C&I recycling and composting																					
MSW and C&I recycling	0.713	0.713	0.713	0.713	0.713	0.713	0.713	0.713	0.713	0.713	0.713	0.713	0.713	0.713	0.713	0.713	0.713	0.713	0.713	0.713	0.713
MSW and C&I transfer	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226	0.226
Total existing/planned MSW and C&I composting capacity	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050	0.050
(1) Total existing/planned MSW and C&I recycling and composting capacity (Baseline: 20% of transfer capacity delivers recycling)	0.808	0.808	0.808	0.808	0.808	0.808	0.808	0.808	0.808	0.808	0.808	0.808	0.808	0.808	0.808	0.808	0.808	0.808	0.808	0.808	0.808
(2) Total existing/planned MSW and C&I recycling and composting capacity (Sensitivity: 5% of transfer capacity delivers recycling)	0.774	0.774	0.774	0.774	0.774	0.774	0.774	0.774	0.774	0.774	0.774	0.774	0.774	0.774	0.774	0.774	0.774	0.774	0.774	0.774	0.774
Total MSW waste required to meet recycling and composting target	0.101	0.111	0.120	0.131	0.141	0.155	0.169	0.183	0.197	0.204	0.211	0.218	0.226	0.234	0.241	0.250	0.258	0.267	0.275	0.284	0.293
Total C&I waste required to meet recycling and composting target	0.228	0.246	0.264	0.283	0.302	0.323	0.336	0.349	0.363	0.377	0.392	0.405	0.419	0.432	0.446	0.461	0.473	0.486	0.498	0.511	0.525
Surplus/deficit capacity (Baseline: 20% of transfer capacity delivers recycling)	0.479	0.452	0.424	0.395	0.364	0.330	0.303	0.276	0.248	0.227	0.205	0.185	0.164	0.142	0.120	0.098	0.077	0.056	0.034	0.012	-0.010
Surplus/deficit capacity (Sensitivity: 5% of transfer capacity delivers recycling)	0.445	0.418	0.390	0.361	0.330	0.296	0.269	0.242	0.214	0.193	0.171	0.151	0.130	0.108	0.086	0.064	0.043	0.022	0.000	-0.022	-0.044
C&D recycling																					
(3) Total existing/planned C&D recycling capacity	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107	0.107
Total waste required to meet C&D recycling target	0.340	0.347	0.355	0.362	0.370	0.377	0.377	0.377	0.377	0.377	0.377	0.393	0.408	0.423	0.438	0.453	0.453	0.453	0.453	0.453	0.453
Surplus/deficit capacity	-0.232	-0.240	-0.247	-0.255	-0.262	-0.270	-0.270	-0.270	-0.270	-0.270	-0.270	-0.285	-0.300	-0.315	-0.330	-0.345	-0.345	-0.345	-0.345	-0.345	-0.345
C&D recovery																					
REGIONAL total existing/planned C&D recovery capacity	1.877	1.794	1.710	1.627	1.544	1.460	1.439	1.418	1.398	1.377	1.356	1.325	1.293	1.262	1.231	1.199	1.220	1.241	1.262	1.283	1.304
Sub-regional total waste required to meet C&D recovery target	0.272	0.267	0.263	0.258	0.254	0.249	0.254	0.258	0.263	0.267	0.272	0.260	0.248	0.236	0.223	0.211	0.214	0.217	0.220	0.223	0.226
Surplus/deficit capacity	1.605	1.527	1.448	1.369	1.290	1.211	1.186	1.160	1.135	1.109	1.084	1.065	1.046	1.026	1.007	0.988	1.006	1.024	1.041	1.059	1.077
Hazardous waste recycling																					
Total existing/planned hazardous waste recycling capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total hazardous waste to be recycled	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Surplus/deficit capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hazardous waste recovery																					
Total existing/planned hazardous waste recovery capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total hazardous waste to be recovered	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Surplus/deficit capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Non-hazardous landfill																					
Available non-hazardous landfill capacity (excluding residues from MSW and C&I recovery)	11.675	11.110	10.261	9.428	8.612	7.813	7.036	6.296	5.593	4.929	4.294	3.690	3.100	2.527	1.969	1.428	0.903	0.382	-0.136	-0.651	-1.162
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'Incineration (non-specialist)'	11.675	11.096	10.231	9.381	8.546	7.728	6.929	6.164	5.434	4.738	4.070	3.429	2.802	2.189	1.591	1.008	0.440	-0.124	-0.684	-1.240	-1.793
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'MBT'	11.675	11.053	10.142	9.242	8.353	7.476	6.614	5.778	4.966	4.181	3.414	2.665	1.927	1.200	0.483	-0.223	-0.918	-1.607	-2.291	-2.970	-3.643
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'RDF'	11.675	11.099	10.237	9.390	8.559	7.745	6.950	6.190	5.466	4.776	4.115	3.481	2.862	2.257	1.667	1.092	0.533	-0.023	-0.574	-1.122	-1.667
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'treatment'	11.675	11.067	10.170	9.286	8.414	7.556	6.714	5.900	5.115	4.358	3.622	2.908	2.206	1.515	0.836	0.169	-0.485	-1.135	-1.780	-2.420	-3.054
Total MSW and C&I waste sent direct to non-hazardous landfill	0.482	0.469	0.456	0.441	0.426	0.406	0.380	0.353	0.325	0.306	0.287	0.276	0.263	0.250	0.237	0.223	0.220	0.217	0.214	0.211	0.207
Inert landfill																					
Available inert landfill capacity	4.276	4.132	3.992	3.854	3.720	3.589	3.460	3.336	3.217	3.102	2.992	2.886	2.784	2.684	2.587	2.494	2.403	2.316	2.231	2.150	2.071
Available inert landfill capacity assuming all MSW and C&I recovery by 'Incineration (non-specialist)'	4.276	4.118	3.961	3.807	3.654	3.503	3.353	3.205	3.058	2.912	2.768	2.626	2.486	2.347	2.210	2.074	1.940	1.810	1.683	1.560	1.440
Total C&D waste sent direct to inert landfill	0.143	0.140	0.137	0.134	0.131	0.128	0.124	0.119	0.115	0.110	0.106	0.103	0.100	0.097	0.094	0.091	0.088	0.085	0.082	0.079	0.075
Hazardous landfill																					
Available hazardous landfill capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total hazardous waste sent direct to hazardous landfill	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Other																					
Metal/ELV facility	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198	0.198
Ignored	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Closed	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

(1) ERM has assumed that 20% of the total 'transfer' capacity will deliver recycling capacity
(2) ERM has assumed that 5% of the total 'transfer' capacity will deliver recycling capacity
(3) Data for C&D recovery for landfill cover for the SE Region were sourced from the original MEL model, which sourced the data from Symonds (2001)
Note: The capacity model developed by ERM for this study does not include the capacity provided in the 'Others' group in its calculations because these are not relevant to the management of MSW, C&I and C&D. These data are included for the purposes of completeness.

Oxfordshire

DATA_08: RESIDUE RATES (%)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Recovery residues (% by weight)																					
MSW and C&I incineration (non-specialist) - bottom ash	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
MSW and C&I incineration (non-specialist) - fly ash	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
MSW and C&I to MBT	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59
MSW and C&I to RDF	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
MSW and C&I treatment - non-hazardous	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45
MSW and C&I treatment - hazardous	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Hazardous waste recovery	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Recycling residues (% by weight)																					
MSW and C&I recycling	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
(2) MSW and C&I transfer	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
MSW and C&I composting	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
C&D recycling	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Hazardous waste recycling	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Other																					
Metal/ELV facility	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Ignored	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Closed	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Note: The capacity model developed by ERM for this study does not include the capacity provided in the 'Others' group in its calculations because these are not relevant to the management of MSW, C&I and C&D. These data are included for the purposes of completeness.

DATA_09: TOTAL RESIDUE (Million Tonnes)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Recovery residues (of waste managed):																					
MSW and C&I incineration (non-specialist) - bottom ash	0.029	0.032	0.034	0.037	0.040	0.043	0.049	0.055	0.062	0.067	0.073	0.076	0.078	0.081	0.084	0.087	0.086	0.085	0.083	0.082	0.081
MSW and C&I incineration (non-specialist) - fly ash	0.003	0.003	0.003	0.004	0.004	0.004	0.005	0.006	0.006	0.007	0.007	0.008	0.008	0.008	0.008	0.009	0.009	0.008	0.008	0.008	0.008
MSW and C&I to MBT	0.057	0.062	0.067	0.073	0.078	0.085	0.096	0.109	0.121	0.132	0.144	0.149	0.154	0.159	0.165	0.170	0.168	0.166	0.164	0.162	0.160
MSW and C&I to RDF	0.012	0.013	0.014	0.015	0.016	0.017	0.020	0.022	0.025	0.027	0.029	0.030	0.031	0.032	0.033	0.035	0.034	0.034	0.033	0.033	0.032
MSW and C&I treatment - non-hazardous	0.044	0.047	0.051	0.055	0.060	0.064	0.073	0.083	0.092	0.101	0.110	0.113	0.117	0.121	0.126	0.130	0.128	0.127	0.125	0.124	0.122
MSW and C&I treatment - hazardous	0.005	0.005	0.006	0.006	0.007	0.007	0.008	0.009	0.010	0.011	0.012	0.013	0.013	0.013	0.014	0.014	0.014	0.014	0.014	0.014	0.014
Hazardous waste recovery	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Recycling residues (of waste managed):																					
MSW and C&I recycling and composting	0.049	0.053	0.058	0.062	0.067	0.072	0.076	0.080	0.084	0.087	0.090	0.093	0.097	0.100	0.103	0.107	0.110	0.113	0.116	0.119	0.123
C&D recycling	0.034	0.035	0.035	0.036	0.037	0.038	0.038	0.038	0.038	0.038	0.038	0.039	0.041	0.042	0.044	0.045	0.045	0.045	0.045	0.045	0.045
Hazardous waste recycling	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Note: All residues are calculated on the amount of waste arising not on the maount of capacity available. This is complaince with the self-sufficiency requirements of PPS10.

DATA_10: TOTAL MSW AND C&I RESIDUE FROM RECYCLING SENT TO NON-HAZARDOUS LANDFILL (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Total MSW and C&I recycling and composting residue sent to non-hazardous landfill	0.083	0.088	0.093	0.098	0.104	0.109	0.113	0.118	0.122	0.125	0.128	0.133	0.137	0.142	0.147	0.152	0.155	0.158	0.161	0.165	0.168

DATA_11: TOTAL MSW AND C&I RESIDUE FROM RECOVERY SENT TO NON-HAZARDOUS LANDFILL AND C&D RECYCLING (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
SCENARIO 1 - Assumes all recovery is by 'Non-specialist incineration' (based on total recovery capacity)																					
(1) Total MSW and C&I residue sent to non-hazardous landfill assuming all MSW and C&I recovery by 'Non-specialist incineration'	0.015	0.016	0.017	0.018	0.020	0.021	0.024	0.028	0.031	0.034	0.037	0.038	0.039	0.040	0.042	0.043	0.043	0.042	0.042	0.041	0.041
(1) Total MSW and C&I residue sent to inert landfill assuming all MSW and C&I recovery by 'Non-specialist incineration'	0.015	0.016	0.017	0.018	0.020	0.021	0.024	0.028	0.031	0.034	0.037	0.038	0.039	0.040	0.042	0.043	0.043	0.042	0.042	0.041	0.041
SCENARIO 2 - Assumes all recovery is by 'MBT' (based on total recovery capacity)																					
Total MSW and C&I residue sent to non-hazardous landfill	0.057	0.062	0.067	0.073	0.078	0.085	0.096	0.109	0.121	0.132	0.144	0.149	0.154	0.159	0.165	0.170	0.168	0.166	0.164	0.162	0.160
SCENARIO 3 - Assumes all recovery is by 'RDF' (based on total recovery capacity)																					
Total MSW and C&I residue sent to non-hazardous landfill	0.012	0.013	0.014	0.015	0.016	0.017	0.020	0.022	0.025	0.027	0.029	0.030	0.031	0.032	0.033	0.035	0.034	0.034	0.033	0.033	0.032
SCENARIO 4 - Assumes all recovery is by 'treatment' (based on total recovery capacity)																					
Total MSW and C&I residue sent to non-hazardous landfill	0.044	0.047	0.051	0.055	0.060	0.064	0.073	0.083	0.092	0.101	0.110	0.113	0.117	0.121	0.126	0.130	0.128	0.127	0.125	0.124	0.122

(1) It was assumed that 50% of residue from 'non-specialist incineration' is sent to non-hazardous landfill and 50% is sent to inert landfill. In the original model assumptions developed MEL 50% was assumed to go to C&D recycling, rather than to inert landfi

DATA_12: TONNAGES OF C&D REUSED ON NON-HAZARDOUS AND INERT LANDFILL (Million Tonnes)

(1) C&D reused on landfill sites	39 %
(1) C&D reused on exempt sites	61 %
(1) C&D reused on landfill sites sent to 'non-haz landfill'	30 %
(1) C&D reused on landfill sites sent to 'inert landfill'	70 %

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
c&d	Total C&D reused on non-hazardous landfill	0.032	0.031	0.031	0.030	0.030	0.029	0.030	0.030	0.031	0.031	0.032	0.030	0.029	0.027	0.026	0.025	0.025	0.025	0.026	0.026	0.026
	Total reused C&D on inert landfill	0.074	0.073	0.071	0.070	0.069	0.068	0.069	0.070	0.071	0.073	0.074	0.071	0.067	0.064	0.061	0.057	0.058	0.059	0.060	0.061	0.061

(1) C&D reuse rates based on original model assumptions developed MEL
NOTE: C&D reuse on inert and non-hazardous landfill is not included within the charts because it has been assumed that data supplied by each sub-region has accounted for C&D reuse as an engineering material.

DATA_13: TOTAL MSW AND C&I RESIDUE FROM RECYCLING SENT TO HAZARDOUS LANDFILL (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Total MSW and C&I recycling and composting residue sent to hazardous landfill	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

DATA_14: TOTAL MSW AND C&I RESIDUE FROM RECOVERY SENT TO HAZARDOUS LANDFILL (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
SCENARIO 1 - Assumes all recovery is by 'Non-specialist incineration' (based on total recovery capacity)																					
Total MSW and C&I residue sent to hazardous landfill assuming all MSW and C&I recovery by 'Non-specialist incineration'	0.003	0.003	0.003	0.004	0.004	0.004	0.005	0.006	0.006	0.007	0.007	0.008	0.008	0.008	0.008	0.009	0.009	0.008	0.008	0.008	0.008
SCENARIO 2 - Assumes all recovery is by 'MBT' (based on total recovery capacity)																					
Total MSW and C&I residue sent to hazardous landfill	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SCENARIO 3 - Assumes all recovery is by 'RDF' (based on total recovery capacity)																					
Total MSW and C&I residue sent to hazardous landfill	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SCENARIO 4 - Assumes all recovery is by 'treatment' (based on total recovery capacity)																					
Total MSW and C&I residue sent to hazardous landfill	0.005	0.005	0.006	0.006	0.007	0.007	0.008	0.009	0.010	0.011	0.012	0.013	0.013	0.013	0.014	0.014	0.014	0.014	0.014	0.014	0.014

NOTE: This element of the model is redundant. There is currently no hazardous waste capacity figures to generate a chart of managed waste versus available capacity.

DATA_15: TOTAL HAZARDOUS WASTE RESIDUE FROM RECOVERY AND RECYCLING SENT TO HAZARDOUS LANDFILL (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Total hazardous waste recycling and recovery residue sent to hazardous landfill	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Oxfordshire

CHART_06

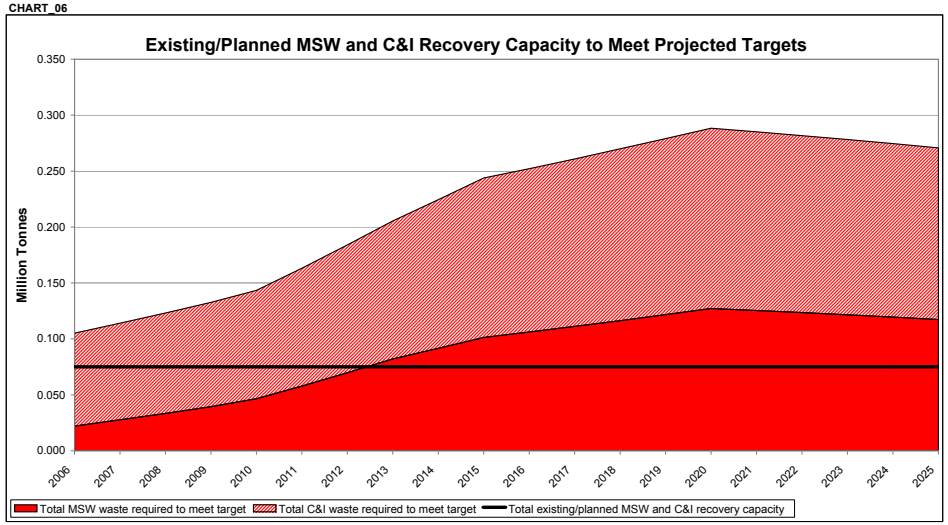


CHART_07

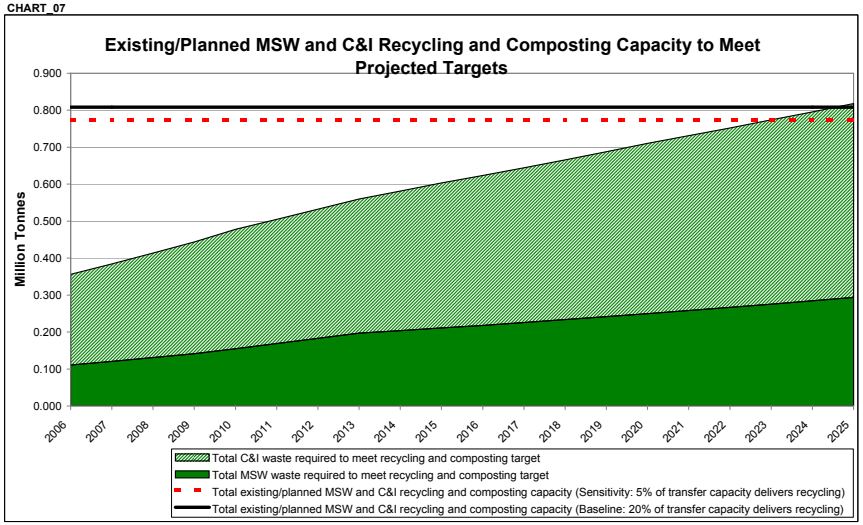
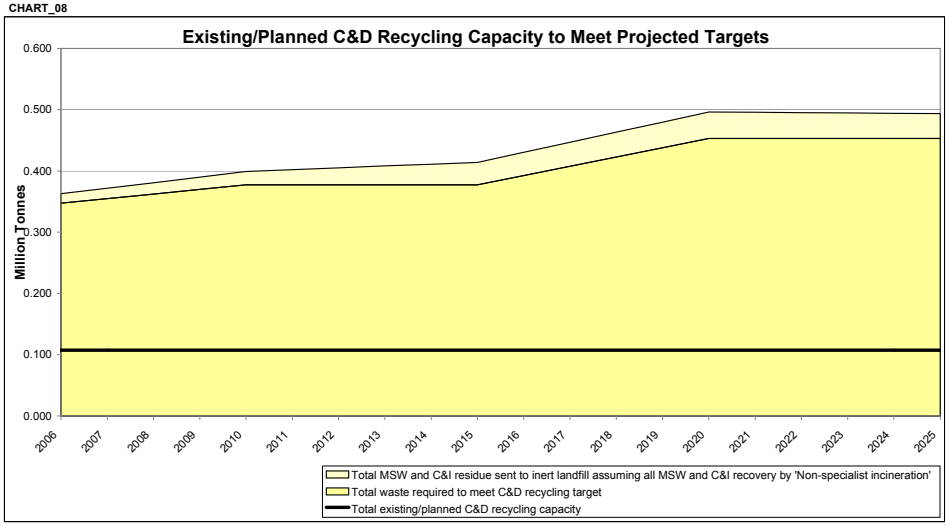


CHART_08



Oxfordshire

CHART_09

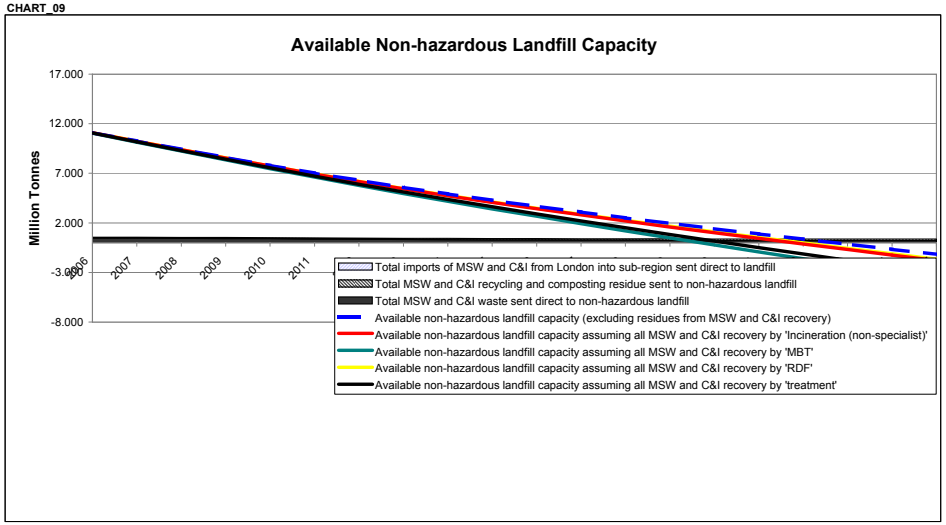
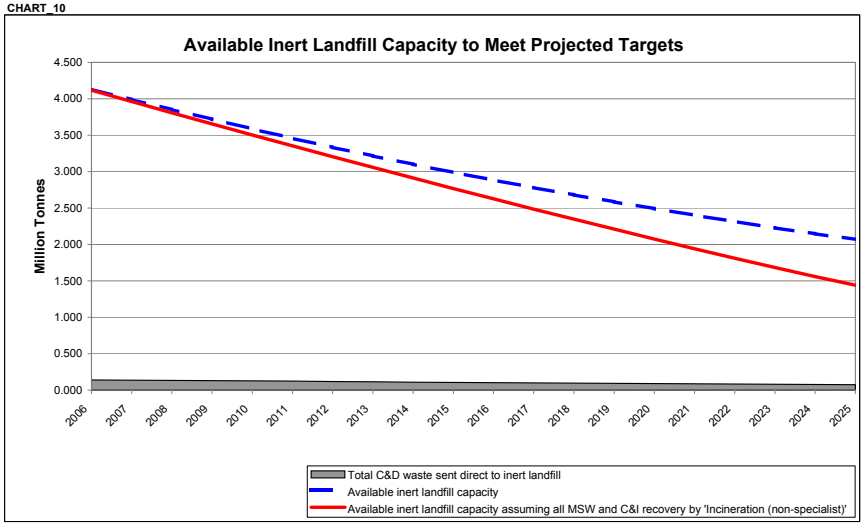


CHART_10



NOTE: The graph assumes that the baseline capacity for non-hazardous landfill has accounted for C&D reuse as a landfill engineering material.

Surrey

SUMMARY DATA AND RESULTS FOR SURREY

MANAGED WASTE USED TO GENERATE RESULTS (Million Tonnes)	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	0.659	0.676	0.693	0.710	0.728	0.742	0.757	0.772	0.788	0.804	0.816	0.828	0.840	0.853	0.866	0.879	0.892	0.905	0.919	0.933
msw - imports from london that are sent direct to non-hazardous landfill	0.063	0.062	0.060	0.059	0.057	0.054	0.051	0.047	0.044	0.041	0.039	0.038	0.036	0.034	0.033	0.032	0.031	0.031	0.030	0.029
c&i	0.838	0.859	0.880	0.902	0.925	0.943	0.962	0.981	1.001	1.021	1.036	1.052	1.067	1.083	1.100	1.111	1.122	1.133	1.144	1.156
c&i - imports from london that are sent direct to non-hazardous landfill	0.081	0.079	0.077	0.074	0.072	0.068	0.064	0.060	0.056	0.052	0.050	0.048	0.046	0.044	0.041	0.040	0.039	0.038	0.037	0.036
c&d	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881
hazardous	0.023	0.024	0.024	0.025	0.026	0.026	0.027	0.027	0.028	0.028	0.029	0.029	0.030	0.030	0.030	0.031	0.031	0.031	0.032	0.032

WASTE STREAM TONNAGES TO MEET TARGETS (Million Tonnes)		2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	LATS shortfall (how much extra is landfilled above LATS target)	-0.039	-0.034	-0.024	-0.010	0.008	0.016	0.024	0.030	0.017	0.003	0.001	0.000	-0.002	-0.004	-0.007	-0.006	-0.006	-0.006	-0.006	-0.005
	Recycling and composting target	0.211	0.230	0.249	0.270	0.298	0.324	0.350	0.377	0.390	0.403	0.417	0.430	0.445	0.461	0.476	0.492	0.508	0.525	0.542	0.560
	Recovery target	0.042	0.053	0.064	0.075	0.089	0.111	0.134	0.157	0.175	0.194	0.203	0.212	0.222	0.232	0.242	0.239	0.235	0.232	0.228	0.224
	Non-hazardous landfill	0.406	0.393	0.380	0.365	0.341	0.307	0.273	0.239	0.223	0.206	0.196	0.185	0.173	0.160	0.147	0.148	0.148	0.148	0.149	0.149
c&i	Recycling and composting target	0.352	0.378	0.405	0.433	0.462	0.481	0.500	0.520	0.540	0.561	0.580	0.599	0.619	0.639	0.660	0.677	0.695	0.714	0.732	0.751
	Recovery target	0.119	0.124	0.128	0.133	0.139	0.151	0.164	0.177	0.190	0.204	0.209	0.215	0.220	0.225	0.231	0.229	0.227	0.224	0.222	0.220
	Non-hazardous landfill	0.367	0.357	0.347	0.336	0.324	0.311	0.298	0.285	0.270	0.255	0.247	0.238	0.228	0.219	0.209	0.204	0.200	0.195	0.190	0.185
c&d	Recycling target	0.865	0.884	0.903	0.922	0.941	0.941	0.941	0.941	0.941	0.941	0.978	1.016	1.053	1.091	1.129	1.129	1.129	1.129	1.129	1.129
	Recovery target	0.666	0.655	0.643	0.632	0.621	0.632	0.643	0.655	0.666	0.677	0.647	0.617	0.587	0.557	0.527	0.534	0.542	0.549	0.557	0.564
	Inert landfill	0.350	0.342	0.335	0.327	0.320	0.308	0.297	0.286	0.275	0.263	0.256	0.248	0.241	0.233	0.226	0.218	0.211	0.203	0.196	0.188
hazardous	Hazardous waste	0.023	0.024	0.024	0.025	0.026	0.026	0.027	0.027	0.028	0.028	0.029	0.029	0.030	0.030	0.030	0.031	0.031	0.031	0.032	0.032

Note: If there is a LATS shortfall, denoted by a positive number, (ie insufficient allowance to landfill non-diverted waste) then the model assumes that this extra waste is recycled/composted and recovered at the same ratio as the regional targets for recycling/composting and recovery for that year.

EXISTING/PLANNED CAPACITY FOR RECYCLING, RECOVERY AND LANDFILLING AND TOTAL WASTE TONNAGES TO EACH DISPOSAL ROUTE (Million Tonnes)	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
MSW and C&I recovery																				
Total existing/planned MSW and C&I recovery capacity	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140
Surplus/deficit capacity	-0.021	-0.036	-0.052	-0.069	-0.088	-0.122	-0.157	-0.194	-0.225	-0.258	-0.272	-0.286	-0.302	-0.317	-0.333	-0.328	-0.322	-0.316	-0.310	-0.303
MSW and C&I recycling and composting																				
Total existing/planned MSW and C&I recycling and composting capacity (Baseline: 20% of transfer capacity delivers recycling)	1.349	1.349	1.349	1.349	1.349	1.349	1.349	1.349	1.349	1.349	1.349	1.349	1.349	1.349	1.349	1.349	1.349	1.349	1.349	1.349
Total existing/planned MSW and C&I recycling and composting capacity (Sensitivity: 5% of transfer capacity delivers recycling)	1.041	1.041	1.041	1.041	1.041	1.041	1.041	1.041	1.041	1.041	1.041	1.041	1.041	1.041	1.041	1.041	1.041	1.041	1.041	1.041
Surplus/deficit capacity (Baseline: 20% of transfer capacity delivers recycling)	0.786	0.741	0.695	0.646	0.589	0.544	0.498	0.452	0.419	0.384	0.352	0.319	0.284	0.249	0.213	0.179	0.145	0.110	0.074	0.038
Surplus/deficit capacity (Sensitivity: 5% of transfer capacity delivers recycling)	0.478	0.433	0.387	0.338	0.281	0.236	0.190	0.144	0.111	0.076	0.044	0.011	-0.024	-0.059	-0.095	-0.129	-0.163	-0.198	-0.234	-0.270
C&D recycling																				
Total existing/planned C&D recycling capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Surplus/deficit capacity	-0.865	-0.884	-0.903	-0.922	-0.941	-0.941	-0.941	-0.941	-0.941	-0.941	-0.978	-1.016	-1.053	-1.091	-1.129	-1.129	-1.129	-1.129	-1.129	-1.129
C&D recovery																				
REGIONAL total existing/planned C&D recovery capacity	1.794	1.710	1.627	1.544	1.460	1.439	1.418	1.398	1.377	1.356	1.325	1.293	1.262	1.231	1.199	1.220	1.241	1.262	1.283	1.304
Surplus/deficit capacity	1.128	1.056	0.984	0.912	0.839	0.807	0.775	0.743	0.711	0.679	0.677	0.676	0.675	0.674	0.673	0.686	0.699	0.713	0.726	0.739
Hazardous waste recycling																				
Total existing/planned hazardous waste recycling capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Surplus/deficit capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hazardous waste recovery																				
Total existing/planned hazardous waste recovery capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Surplus/deficit capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Non-hazardous landfill																				
Available non-hazardous landfill capacity (excluding residues from MSW and C&I recovery)	8.515	7.427	6.356	5.305	4.274	3.272	2.317	1.409	0.549	-0.278	-1.071	-1.851	-2.615	-3.363	-4.094	-4.808	-5.520	-6.232	-6.943	-7.653
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'Incineration (non-specialist)'	8.515	7.403	6.306	5.225	4.163	3.127	2.132	1.180	0.270	-0.611	-1.465	-2.306	-3.134	-3.949	-4.748	-5.533	-6.315	-7.096	-7.876	-8.653
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'MBT'	8.515	7.332	6.157	4.992	3.838	2.702	1.592	0.509	-0.548	-1.590	-2.619	-3.641	-4.657	-5.666	-6.667	-7.659	-8.648	-9.632	-10.612	-11.588
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'RDF'	8.515	7.408	6.316	5.241	4.185	3.156	2.169	1.226	0.326	-0.545	-1.386	-2.215	-3.031	-3.832	-4.618	-5.388	-6.156	-6.923	-7.689	-8.453
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'treatment'	8.515	7.354	6.205	5.067	3.942	2.837	1.764	0.722	-0.287	-1.279	-2.251	-3.216	-4.173	-5.120	-6.057	-6.983	-7.906	-8.825	-9.741	-10.654
Inert landfill																				
Available inert landfill capacity	11.532	11.182	10.840	10.505	10.178	9.858	9.549	9.252	8.966	8.692	8.428	8.172	7.924	7.683	7.450	7.224	7.006	6.796	6.592	6.397
Available inert landfill capacity assuming all MSW and C&I recovery by 'Incineration (non-specialist)'	11.532	11.158	10.789	10.425	10.067	9.713	9.365	9.023	8.687	8.358	8.035	7.717	7.405	7.098	6.796	6.499	6.211	5.931	5.659	5.396
Hazardous landfill																				
Available hazardous landfill capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Note: The model does not contain data for the management of hazardous waste.

DATA_01: ARISINGS AND GROWTH RATES OF MSW, C&I AND HAZARDOUS WASTE (Million Tonnes)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw Arisings of MSW in baseline year																					
(1) Forecast regional level growth rate of MSW - per year (%)	3.0%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%
(1) Forecast regional level growth rate of MSW - cumulative (%)	103%	106%	108%	111%	114%	117%	119%	121%	124%	126%	129%	131%	133%	135%	137%	139%	141%	143%	145%	147%	149%
Total arisings of MSW using regional growth forecasts	0.643	0.659	0.676	0.693	0.710	0.728	0.742	0.757	0.772	0.788	0.804	0.816	0.828	0.840	0.853	0.866	0.879	0.892	0.905	0.919	0.933
(1) Forecast sub-regional growth rate of MSW - per year (%)	2.0%	2.0%	2.0%	2.0%	2.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	0.5%	0.5%	0.5%	0.5%	0.5%	0.5%
(1) Forecast sub-regional level growth rate of MSW - cumulative (%)	102%	104%	106%	108%	110%	112%	113%	114%	115%	116%	117%	118%	120%	121%	122%	123%	123%	124%	124%	125%	126%
Total arisings of MSW using sub-regional growth forecasts	0.637	0.650	0.663	0.676	0.690	0.696	0.703	0.710	0.718	0.725	0.732	0.739	0.747	0.754	0.762	0.765	0.769	0.773	0.777	0.781	0.785
c&i Arisings of C&I in baseline year																					
(1) Forecast regional level growth rate of C&I - per year (%)	3.3%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.0%	1.0%	1.0%	1.0%	1.0%
(1) Forecast regional level growth rate of C&I - cumulative (%)	110%	113%	116%	119%	122%	125%	127%	130%	132%	135%	138%	140%	142%	144%	146%	148%	150%	151%	153%	154%	156%
Total arisings of C&I using regional growth forecasts	0.817	0.838	0.859	0.880	0.902	0.925	0.943	0.962	0.981	1.001	1.021	1.036	1.052	1.067	1.083	1.100	1.111	1.122	1.133	1.144	1.156
(1) Forecast sub-regional level growth rate of C&I - per year (%)	1.7%	1.7%	1.7%	1.7%	1.7%	1.6%	1.6%	1.6%	1.6%	1.6%	0.8%	0.8%	0.8%	0.8%	0.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
(1) Forecast sub-regional level growth rate of C&I - cumulative (%)	105%	107%	109%	111%	113%	115%	117%	118%	120%	122%	123%	124%	125%	126%	127%	127%	127%	127%	127%	127%	127%
Total arisings of C&I using sub-regional growth forecasts	0.782	0.796	0.809	0.823	0.838	0.851	0.865	0.878	0.892	0.906	0.914	0.921	0.928	0.936	0.943	0.943	0.943	0.943	0.943	0.943	0.943
hazardous Arisings of hazardous waste in baseline year																					
(2) Forecast regional level growth rate of hazardous waste - per year (%)	3.3%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.0%	1.0%	1.0%	1.0%	1.0%
Forecast regional level growth rate of hazardous waste - cumulative (%)	107%	109%	112%	115%	118%	121%	123%	126%	128%	131%	133%	135%	137%	139%	141%	144%	145%	146%	148%	149%	151%
Total arisings of hazardous waste	0.023	0.023	0.024	0.024	0.025	0.026	0.026	0.027	0.027	0.028	0.028	0.029	0.029	0.030	0.030	0.030	0.031	0.031	0.031	0.032	0.032
(2) Forecast sub-regional level growth rate of hazardous waste - per year (%)	1.7%	1.7%	1.7%	1.7%	1.7%	1.6%	1.6%	1.6%	1.6%	1.6%	0.8%	0.8%	0.8%	0.8%	0.8%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Forecast sub regional level growth rate of hazardous waste - cumulative (%)	104%	105%	107%	109%	111%	113%	114%	116%	118%	120%	121%	122%	123%	124%	125%	125%	125%	125%	125%	125%	125%
Total arisings of hazardous waste	0.022	0.022	0.023	0.023	0.024	0.024	0.024	0.025	0.025	0.025	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026
c&d Total managed C&D in baseline year																					
(3) Forecast regional-level growth rate of managed C&D - per year (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
Forecast regional-level growth rate of managed C&D - cumulative (%)	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
(3) Total managed of C&D for the sub-region	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881

(1) Figures from SEERA updated waste capacity model by ERM in 2005.
(2) Baseline year of hazardous waste arisings is 2003 from EA Hazardous Waste Interrogator. www.environment-agency.gov.uk/apps/wastesurvey2/. ERM has assumed that growth in hazardous waste is equal to C&I waste.
(3) These data represent managed C&D waste in the sub-region, including all intra-regional and inter-regional movements. Growth is assumed to be zero from the orginal MEL study and updated modeted by ERM in 2005.
NOTE: C&D waste is not included in arisings because this was taken from survey data by Symonds 2001 which gave values for managed C&D waste.

Surrey

Figure in blue represent data supplied by each sub-region for the new '2006 SEERA Capacity and Need Model'
Figures in orange represent managed waste that are used by the model to calculate results. These can be adjusted for different scenarios.

DATA_02: INTER REGIONAL MOVEMENTS OF MSW and C&I (Million Tonnes)		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw and c&i	Regional level imports of MSW and C&I waste into the SE region from London	1.76	1.716	1.672	1.628	1.584	1.54	1.454	1.368	1.282	1.196	1.11	1.064	1.018	0.972	0.926	0.88	0.86	0.84	0.82	0.8	0.78
	Proportion of regional MSW and C&I imports that go to the sub-region (%)	8.4%	8.4%	8.4%	8.4%	8.4%	8.4%	8.4%	8.4%	8.4%	8.4%	8.4%	8.4%	8.4%	8.4%	8.4%	8.4%	8.4%	8.4%	8.4%	8.4%	8.4%
	(1) Total imports of MSW and C&I from London into sub-region sent direct to landfill	0.148	0.144	0.140	0.137	0.133	0.129	0.122	0.115	0.108	0.100	0.093	0.089	0.086	0.082	0.078	0.074	0.072	0.071	0.069	0.067	0.066
msw	Proportion of total MSW and C&I imports that are MSW (%) - REGIONAL GROWTH FORECAST	44%	44%	44%	44%	44%	44%	44%	44%	44%	44%	44%	44%	44%	44%	44%	44%	44%	44%	44%	45%	45%
	Total imports of MSW into the sub-region from London - REGIONAL GROWTH FORECAST	0.065	0.063	0.062	0.060	0.059	0.057	0.054	0.051	0.047	0.044	0.041	0.039	0.038	0.036	0.034	0.033	0.032	0.031	0.031	0.030	0.029
	Proportion of total MSW and C&I imports that are MSW (%) - SUB-REGIONAL GROWTH FORECAST	45%	45%	45%	45%	45%	45%	45%	45%	45%	44%	44%	45%	45%	45%	45%	45%	45%	45%	45%	45%	45%
	Total imports of MSW into the sub-region from London - SUB-REGIONAL GROWTH FORECAST	0.066	0.065	0.063	0.062	0.060	0.058	0.055	0.051	0.048	0.045	0.041	0.040	0.038	0.036	0.035	0.033	0.032	0.032	0.031	0.030	0.030
c&i	Proportion of total MSW and C&I imports that are C&I (%) - REGIONAL GROWTH FORECAST	56%	56%	56%	56%	56%	56%	56%	56%	56%	56%	56%	56%	56%	56%	56%	56%	56%	56%	56%	55%	55%
	Total imports of C&I into the sub-region from London - REGIONAL GROWTH FORECAST	0.083	0.081	0.079	0.077	0.074	0.072	0.068	0.064	0.060	0.056	0.052	0.050	0.048	0.046	0.044	0.041	0.040	0.039	0.038	0.037	0.036
	Proportion of total MSW and C&I imports that are C&I (%) - SUB-REGIONAL GROWTH FORECAST	55%	55%	55%	55%	55%	55%	55%	55%	55%	56%	56%	55%	55%	55%	55%	55%	55%	55%	55%	55%	55%
	Total imports of C&I into the sub-region from London - SUB-REGIONAL GROWTH FORECAST	0.081	0.079	0.077	0.075	0.073	0.071	0.067	0.064	0.060	0.056	0.052	0.050	0.047	0.045	0.043	0.041	0.040	0.039	0.038	0.037	0.036

(1) Intra-regional and inter-regional movements have been excluded for MSW and C&I waste due to self-sufficiency requirements under PPS10, except for inter-regional movements from London into the sub-region. Apportionment from Policy W3 in the Plan – downloa
Note: Only a figure is available for total combined imports of MSW and C&I waste. ERM has assumed that imports of the seperate waste streams of MSW and C&I was split according to tonnage arisings of MSW and C&I in the sub-region.

DATA_03: MANAGED WASTE USED TO GENERATE RESULTS (Million Tonnes)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	0.643	0.659	0.676	0.693	0.710	0.728	0.742	0.757	0.772	0.788	0.804	0.816	0.828	0.840	0.853	0.866	0.879	0.892	0.905	0.919	0.933
msw - imports from london that are sent direct to non-hazardous landfill	0.065	0.063	0.062	0.060	0.059	0.057	0.054	0.051	0.047	0.044	0.041	0.039	0.038	0.036	0.034	0.033	0.032	0.031	0.031	0.030	0.029
c&i	0.817	0.838	0.859	0.880	0.902	0.925	0.943	0.962	0.981	1.001	1.021	1.036	1.052	1.067	1.083	1.100	1.111	1.122	1.133	1.144	1.156
c&i - imports from london that are sent direct to non-hazardous landfill	0.083	0.081	0.079	0.077	0.074	0.072	0.068	0.064	0.060	0.056	0.052	0.050	0.048	0.046	0.044	0.041	0.040	0.039	0.038	0.037	0.036
c&d	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881	1.881
hazardous	0.023	0.023	0.024	0.024	0.025	0.026	0.026	0.027	0.027	0.028	0.028	0.029	0.029	0.030	0.030	0.030	0.031	0.031	0.031	0.032	0.032

DATA_04: TARGETS (% or Million Tonnes)		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	(1) landfill (Mt)	0.325	0.316	0.301	0.282	0.258	0.229	0.204	0.178	0.153	0.146	0.140	0.133	0.126	0.120	0.113	0.107	0.107	0.107	0.107	0.107	0.107
	recovered (%)	5	6.4	7.8	9.2	10.6	12	14.4	16.8	19.2	21.6	24	24.8	25.6	26.4	27.2	28	27.2	26.4	25.6	24.8	24
	recycled and composted (%)	30	32.0	34.0	36.0	38.0	40	42.0	44.0	46.0	48.0	50	51.0	52.0	53.0	54.0	55	56.0	57.0	58.0	59.0	60
c&i	recovered (%)	14	14.2	14.4	14.6	14.8	15	16.0	17.0	18.0	19.0	20	20.2	20.4	20.6	20.8	21	20.6	20.2	19.8	19.4	19
	recycled and composted (%)	40	42.0	44.0	46.0	48.0	50	51.0	52.0	53.0	54.0	55	56.0	57.0	58.0	59.0	60	61.0	62.0	63.0	64.0	65
c&d	recovered (%)	36	35.4	34.8	34.2	33.6	33	33.6	34.2	34.8	35.4	36	34.4	32.8	31.2	29.6	28	28.4	28.8	29.2	29.6	30
	recycled (%)	45	46.0	47.0	48.0	49.0	50	50.0	50.0	50.0	50.0	50	52.0	54.0	56.0	58.0	60	60.0	60.0	60.0	60.0	60
hazardous	landfill (%)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	recovered (%)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	recycled (%)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

(1) ERM has assumed that the LATS target allowance remains constant at the 2020 value for the years beyond 2020

DATA_05: WASTE STREAM TONNAGES TO MEET TARGETS (Million Tonnes)

This first section of DATA_03 calculates if there is a LATS shortfall or suplus in each year. If there is a LATS shortfall (ie insufficient allowance to landfill non-diverted waste) then the model assumes that this extra waste is recycled/composted and r

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	Total MSW to be recovered and recycled/composted to meet target	0.225	0.253	0.283	0.313	0.345	0.378	0.419	0.460	0.504	0.548	0.595	0.618	0.642	0.667	0.693	0.718	0.731	0.744	0.757	0.770	0.783
	Total MSW not-diverted by targets	0.418	0.406	0.393	0.380	0.365	0.349	0.324	0.297	0.269	0.239	0.209	0.197	0.185	0.173	0.160	0.147	0.148	0.148	0.148	0.149	0.149
	Percentage of MSW that is biodegradable (% by weight)	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68
	Total BMW not-diverted by targets	0.284	0.276	0.267	0.258	0.248	0.238	0.220	0.202	0.183	0.163	0.142	0.134	0.126	0.118	0.109	0.100	0.100	0.101	0.101	0.101	0.101
	LATS shortfall (how much extra is landfilled above LATS target)	-0.041	-0.039	-0.034	-0.024	-0.010	0.008	0.016	0.024	0.030	0.017	0.003	0.001	0.000	-0.002	-0.004	-0.007	-0.006	-0.006	-0.006	-0.006	-0.005
	Ratio of 'recovered' to 'recycled/composted' for target (%)	14%	17%	19%	20%	22%	23%	26%	28%	29%	31%	32%	33%	33%	33%	33%	34%	33%	32%	31%	30%	29%
	Extra MSW 'recovery' needed due to LATS shortfall	0.000	0.000	0.000	0.000	0.000	*0.002*	*0.004*	*0.007*	*0.009*	*0.005*	*0.001*	*0.000*	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Extra MSW 'recycling/composting' needed due to LATS shortfall	0.000	0.000	0.000	0.000	0.000	*0.006*	*0.012*	*0.017*	*0.021*	*0.012*	*0.002*	*0.001*	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

The section below in DATA_03 shows the tonnages by waste to meet targets.

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	Recycling and composting target	0.193	0.211	0.230	0.249	0.270	0.298	0.324	0.350	0.377	0.390	0.403	0.417	0.430	0.445	0.461	0.476	0.492	0.508	0.525	0.542	0.560
	Recovery target	0.032	0.042	0.053	0.064	0.075	0.089	0.111	0.134	0.157	0.175	0.194	0.203	0.212	0.222	0.232	0.242	0.239	0.235	0.232	0.228	0.224
	Non-hazardous landfill	0.418	0.406	0.393	0.380	0.365	0.341	0.307	0.273	0.239	0.223	0.206	0.196	0.185	0.173	0.160	0.147	0.148	0.148	0.148	0.149	0.149
	CHECK COUNTER (should be zero)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
c&i	Recycling and composting target	0.327	0.352	0.378	0.405	0.433	0.462	0.481	0.500	0.520	0.540	0.561	0.580	0.599	0.619	0.639	0.660	0.677	0.695	0.714	0.732	0.751
	Recovery target	0.114	0.119	0.124	0.128	0.133	0.139	0.151	0.164	0.177	0.190	0.204	0.209	0.215	0.220	0.225	0.231	0.229	0.227	0.224	0.222	0.220
	Non-hazardous landfill	0.376	0.367	0.357	0.347	0.336	0.324	0.311	0.298	0.285	0.270	0.255	0.247	0.238	0.228	0.219	0.209	0.204	0.200	0.195	0.190	0.185
	CHECK COUNTER (should be zero)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
c&d	Recycling target	0.846	0.865	0.884	0.903	0.922	0.941	0.941	0.941	0.941	0.941	0.941	0.978	1.016	1.053	1.091	1.129	1.129	1.129	1.129	1.129	1.129
	Recovery target	0.677	0.666	0.655	0.643	0.632	0.621	0.632	0.643	0.655	0.666	0.677	0.647	0.617	0.587	0.557	0.527	0.534	0.542	0.549	0.557	0.564
	Inert landfill	0.357	0.350	0.342	0.335	0.327	0.320	0.308	0.297	0.286	0.275	0.263	0.256	0.248	0.241	0.233	0.226	0.218	0.211	0.203	0.196	0.188
	CHECK COUNTER (should be zero)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
hazardous	Hazardous waste	0.023	0.023	0.024	0.024	0.025	0.026	0.026	0.027	0.027	0.028	0.028	0.029	0.029	0.030	0.030	0.030	0.031	0.031	0.031	0.032	0.032

DATA_06: TOTAL WASTE TONNAGES TO MEET TARGETS (Million Tonnes)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
MSW and C&I recycling and composting target	0.520	0.563	0.608	0.654	0.703	0.760	0.805	0.851	0.897	0.930	0.965	0.997	1.030	1.064	1.100	1.136	1.170	1.204	1.239	1.274	1.311
C&D recycling target	0.846	0.865	0.884	0.903	0.922	0.941	0.941	0.941	0.941	0.941	0.941	0.978	1.016	1.053	1.091	1.129	1.129	1.129	1.129	1.129	1.129
MSW and C&I recovery target	0.147	0.161	0.176	0.192	0.209	0.228	0.262	0.297	0.334	0.366	0.398	0.412	0.426	0.442	0.457	0.473	0.468	0.462	0.456	0.450	0.443
C&D recovery target	0.677	0.666	0.655	0.643	0.632	0.621	0.632	0.643	0.655	0.666	0.677	0.647	0.617	0.587	0.557	0.527	0.534	0.542	0.549	0.557	0.564
Non-hazardous landfill	0.794	0.773	0.750	0.726	0.700	0.665	0.618	0.571	0.523	0.493	0.462	0.443	0.423	0.402	0.379	0.356	0.352	0.348	0.343	0.339	0.334
Inert landfill	0.357	0.350	0.342	0.335	0.327	0.320	0.308	0.297	0.286	0.275	0.263	0.256	0.248	0.241	0.233	0.226	0.218	0.211	0.203	0.196	0.188
Hazardous waste	0.023	0.023	0.024	0.024	0.025	0.026	0.026	0.027	0.027	0.028	0.028	0.029	0.029	0.030	0.030	0.030	0.031	0.031	0.031	0.032	0.032

Surrey

CHART_01

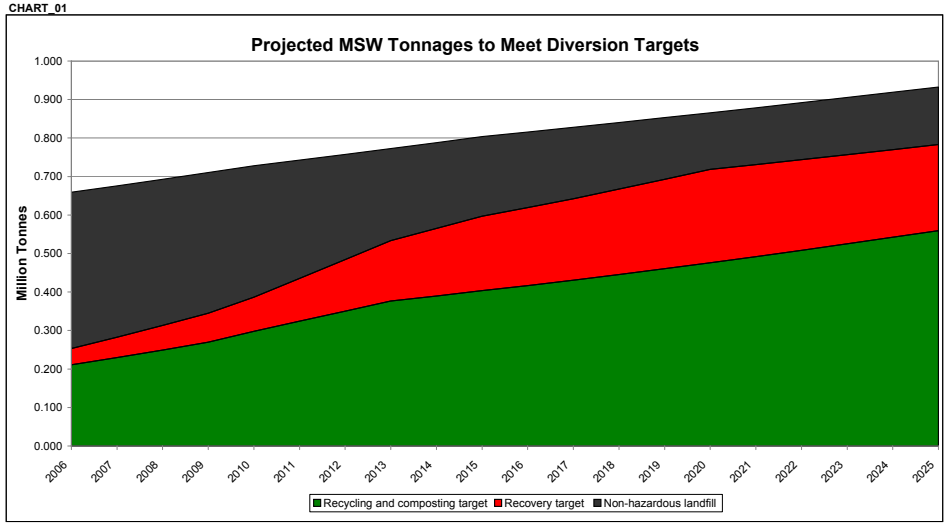
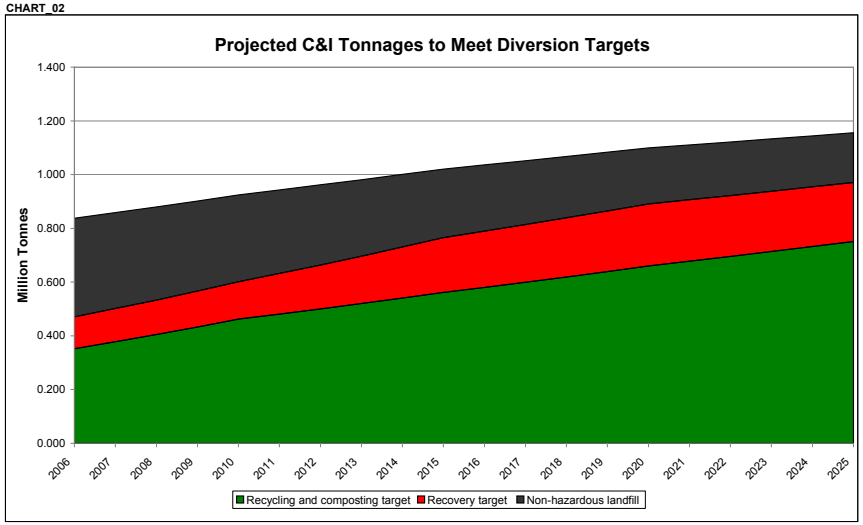


CHART_02



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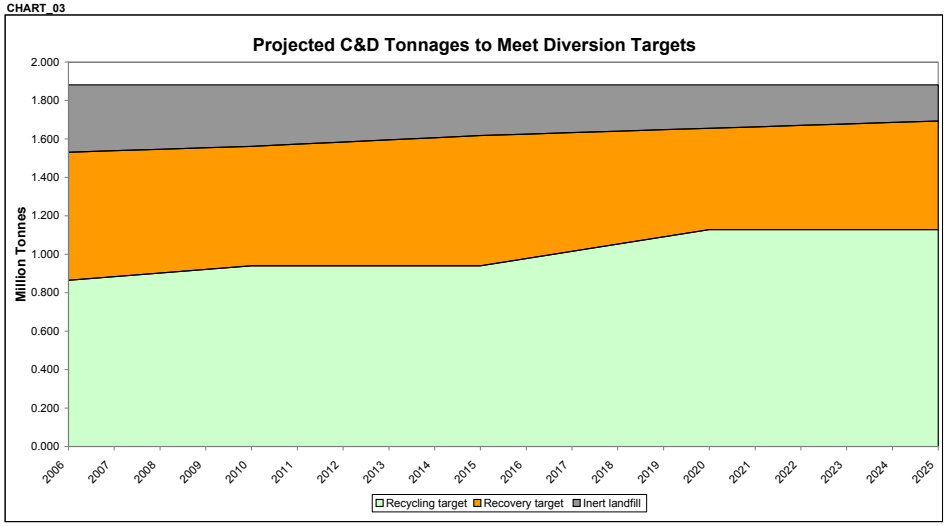
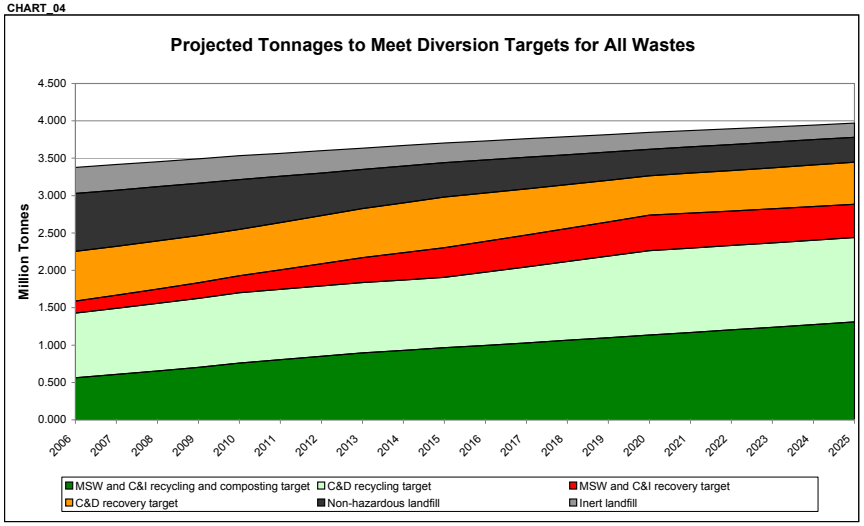
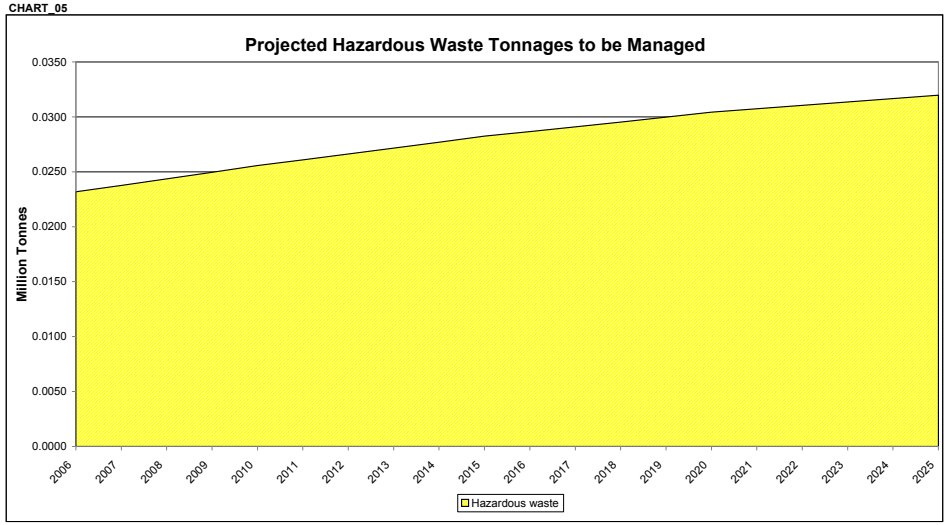


CHART_04



Surrey

CHART_05



DATA_07: EXISTING/PLANNED CAPACITY FOR RECYCLING, RECOVERY AND LANDFILLING AND TOTAL WASTE TONNAGES TO EACH DISPOSAL ROUTE (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
MSW and C&I recovery																					
MSW and C&I incineration (non-specialist)	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006	0.006
MSW and C&I treatment	0.134	0.134	0.134	0.134	0.134	0.134	0.134	0.134	0.134	0.134	0.134	0.134	0.134	0.134	0.134	0.134	0.134	0.134	0.134	0.134	0.134
Total existing/planned MSW and C&I recovery capacity	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140	0.140
Total MSW waste required to meet target	0.032	0.042	0.053	0.064	0.075	0.089	0.111	0.134	0.157	0.175	0.194	0.203	0.212	0.222	0.232	0.242	0.239	0.235	0.232	0.228	0.224
Total C&I waste required to meet target	0.114	0.119	0.124	0.128	0.133	0.139	0.151	0.164	0.177	0.190	0.204	0.209	0.215	0.220	0.225	0.231	0.229	0.227	0.224	0.222	0.220
Surplus/deficit capacity	-0.007	-0.021	-0.036	-0.052	-0.069	-0.088	-0.122	-0.157	-0.194	-0.225	-0.258	-0.272	-0.286	-0.302	-0.317	-0.333	-0.328	-0.322	-0.316	-0.310	-0.303
MSW and C&I recycling and composting																					
MSW and C&I recycling	0.938	0.938	0.938	0.938	0.938	0.938	0.938	0.938	0.938	0.938	0.938	0.938	0.938	0.938	0.938	0.938	0.938	0.938	0.938	0.938	0.938
MSW and C&I transfer	2.054	2.054	2.054	2.054	2.054	2.054	2.054	2.054	2.054	2.054	2.054	2.054	2.054	2.054	2.054	2.054	2.054	2.054	2.054	2.054	2.054
Total existing/planned MSW and C&I composting capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
(1) Total existing/planned MSW and C&I recycling and composting capacity (Baseline: 20% of transfer capacity delivers recycling)	1.349	1.349	1.349	1.349	1.349	1.349	1.349	1.349	1.349	1.349	1.349	1.349	1.349	1.349	1.349	1.349	1.349	1.349	1.349	1.349	1.349
(2) Total existing/planned MSW and C&I recycling and composting capacity (Sensitivity: 5% of transfer capacity delivers recycling)	1.041	1.041	1.041	1.041	1.041	1.041	1.041	1.041	1.041	1.041	1.041	1.041	1.041	1.041	1.041	1.041	1.041	1.041	1.041	1.041	1.041
Total MSW waste required to meet recycling and composting target	0.193	0.211	0.230	0.249	0.270	0.298	0.324	0.350	0.377	0.390	0.403	0.417	0.430	0.445	0.461	0.476	0.492	0.508	0.525	0.542	0.560
Total C&I waste required to meet recycling and composting target	0.327	0.352	0.378	0.405	0.433	0.462	0.481	0.500	0.520	0.540	0.561	0.580	0.599	0.619	0.639	0.660	0.677	0.695	0.714	0.732	0.751
Surplus/deficit capacity (Baseline: 20% of transfer capacity delivers recycling)	0.829	0.786	0.741	0.695	0.646	0.589	0.544	0.498	0.452	0.419	0.384	0.352	0.319	0.284	0.249	0.213	0.179	0.145	0.110	0.074	0.038
Surplus/deficit capacity (Sensitivity: 5% of transfer capacity delivers recycling)	0.521	0.478	0.433	0.387	0.338	0.281	0.236	0.190	0.144	0.111	0.076	0.044	0.011	-0.024	-0.059	-0.095	-0.129	-0.163	-0.198	-0.234	-0.270
C&D recycling																					
(3) Total existing/planned C&D recycling capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total waste required to meet C&D recycling target	0.846	0.865	0.884	0.903	0.922	0.941	0.941	0.941	0.941	0.941	0.941	0.978	1.016	1.053	1.091	1.129	1.129	1.129	1.129	1.129	1.129
Surplus/deficit capacity	-0.846	-0.865	-0.884	-0.903	-0.922	-0.941	-0.941	-0.941	-0.941	-0.941	-0.941	-0.978	-1.016	-1.053	-1.091	-1.129	-1.129	-1.129	-1.129	-1.129	-1.129
C&D recovery																					
REGIONAL total existing/planned C&D recovery capacity	1.877	1.794	1.710	1.627	1.544	1.460	1.439	1.418	1.398	1.377	1.356	1.325	1.293	1.262	1.231	1.199	1.220	1.241	1.262	1.283	1.304
Sub-regional total waste required to meet C&D recovery target	0.677	0.666	0.655	0.643	0.632	0.621	0.632	0.643	0.655	0.666	0.677	0.647	0.617	0.587	0.557	0.527	0.534	0.542	0.549	0.557	0.564
Surplus/deficit capacity	1.200	1.128	1.056	0.984	0.912	0.839	0.807	0.775	0.743	0.711	0.679	0.677	0.676	0.675	0.674	0.673	0.686	0.699	0.713	0.726	0.739
Hazardous waste recycling																					
Total existing/planned hazardous waste recycling capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total hazardous waste to be recycled	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Surplus/deficit capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hazardous waste recovery																					
Total existing/planned hazardous waste recovery capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total hazardous waste to be recovered	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Surplus/deficit capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Non-hazardous landfill																					
Available non-hazardous landfill capacity (excluding residues from MSW and C&I recovery)		8.515	7.427	6.356	5.305	4.274	3.272	2.317	1.409	0.549	-0.278	-1.071	-1.851	-2.615	-3.363	-4.094	-4.808	-5.520	-6.232	-6.943	-7.653
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'Incineration (non-specialist)'		8.515	7.403	6.306	5.225	4.163	3.127	2.132	1.180	0.270	-0.611	-1.465	-2.306	-3.134	-3.949	-4.748	-5.533	-6.315	-7.096	-7.876	-8.653
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'MBT'		8.515	7.332	6.157	4.992	3.838	2.702	1.592	0.509	-0.548	-1.590	-2.619	-3.641	-4.657	-5.666	-6.667	-7.659	-8.648	-9.632	-10.612	-11.588
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'RDF'		8.515	7.408	6.316	5.241	4.185	3.156	2.169	1.226	0.326	-0.545	-1.386	-2.215	-3.031	-3.832	-4.618	-5.388	-6.156	-6.923	-7.689	-8.453
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'treatment'		8.515	7.354	6.205	5.067	3.942	2.837	1.764	0.722	-0.287	-1.279	-2.251	-3.216	-4.173	-5.120	-6.057	-6.983	-7.906	-8.825	-9.741	-10.654
Total MSW and C&I waste sent direct to non-hazardous landfill		0.773	0.750	0.726	0.700	0.665	0.618	0.571	0.523	0.493	0.462	0.443	0.423	0.402	0.379	0.356	0.352	0.348	0.343	0.339	0.334
Inert landfill																					
Available inert landfill capacity		11.532	11.182	10.840	10.505	10.178	9.858	9.549	9.252	8.966	8.692	8.428	8.172	7.924	7.683	7.450	7.224	7.006	6.796	6.592	6.397
Available inert landfill capacity assuming all MSW and C&I recovery by 'Incineration (non-specialist)'		11.532	11.158	10.789	10.425	10.067	9.713	9.365	9.023	8.687	8.358	8.035	7.717	7.405	7.098	6.796	6.499	6.211	5.931	5.659	5.396
Total C&D waste sent direct to inert landfill	0.357	0.350	0.342	0.335	0.327	0.320	0.308	0.297	0.286	0.275	0.263	0.256	0.248	0.241	0.233	0.226	0.218	0.211	0.203	0.196	0.188
Hazardous landfill																					
Available hazardous landfill capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total hazardous waste sent direct to hazardous landfill	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Other																					
Metal/ELV facility	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017	0.017
Ignored	1.402	1.402	1.402	1.402	1.402	1.402	1.402	1.402	1.402	1.402	1.402	1.402	1.402	1.402	1.402	1.402	1.402	1.402	1.402	1.402	1.402
Closed	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

(1) ERM has assumed that 20% of the total 'transfer' capacity will deliver recycling capacity
(2) ERM has assumed that 5% of the total 'transfer' capacity will deliver recycling capacity
(3) Data for C&D recovery for landfill cover for the SE Region were sourced from the original MEL model, which sourced the data from Symonds (2001)
Note: The capacity model developed by ERM for this study does not include the capacity provided in the 'Others' group in its calculations because these are not relevant to the management of MSW, C&I and C&D. These data are included for the purposes of completeness.

Surrey

DATA_08: RESIDUE RATES (%)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Recovery residues (% by weight)																					
MSW and C&I incineration (non-specialist) - bottom ash	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
MSW and C&I incineration (non-specialist) - fly ash	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
MSW and C&I to MBT	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59
MSW and C&I to RDF	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
MSW and C&I treatment - non-hazardous	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45
MSW and C&I treatment - hazardous	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Hazardous waste recovery	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Recycling residues (% by weight)																					
MSW and C&I recycling	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
(2) MSW and C&I transfer	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
MSW and C&I composting	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
C&D recycling	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Hazardous waste recycling	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Other																					
Metal/ELV facility	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Ignored	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Closed	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Note: The capacity model developed by ERM for this study does not include the capacity provided in the 'Others' group in its calculations because these are not relevant to the management of MSW, C&I and C&D. These data are included for the purposes of completeness.

DATA_09: TOTAL RESIDUE (Million Tonnes)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Recovery residues (of waste managed):																					
MSW and C&I incineration (non-specialist) - bottom ash	0.044	0.048	0.053	0.058	0.063	0.068	0.079	0.089	0.100	0.110	0.119	0.124	0.128	0.133	0.137	0.142	0.140	0.139	0.137	0.135	0.133
MSW and C&I incineration (non-specialist) - fly ash	0.004	0.005	0.005	0.006	0.006	0.007	0.008	0.009	0.010	0.011	0.012	0.012	0.013	0.013	0.014	0.014	0.014	0.014	0.014	0.013	0.013
MSW and C&I to MBT	0.086	0.095	0.104	0.113	0.123	0.134	0.155	0.175	0.197	0.216	0.235	0.243	0.252	0.261	0.270	0.279	0.276	0.273	0.269	0.265	0.262
MSW and C&I to RDF	0.018	0.019	0.021	0.023	0.025	0.027	0.031	0.036	0.040	0.044	0.048	0.049	0.051	0.053	0.055	0.057	0.056	0.055	0.055	0.054	0.053
MSW and C&I treatment - non-hazardous	0.066	0.073	0.079	0.086	0.094	0.103	0.118	0.134	0.150	0.164	0.179	0.185	0.192	0.199	0.206	0.213	0.211	0.208	0.205	0.202	0.200
MSW and C&I treatment - hazardous	0.007	0.008	0.009	0.010	0.010	0.011	0.013	0.015	0.017	0.018	0.020	0.021	0.021	0.022	0.023	0.024	0.023	0.023	0.023	0.022	0.022
Hazardous waste recovery	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Recycling residues (of waste managed):																					
MSW and C&I recycling and composting	0.078	0.084	0.091	0.098	0.105	0.114	0.121	0.128	0.134	0.140	0.145	0.150	0.154	0.160	0.165	0.170	0.175	0.181	0.186	0.191	0.197
C&D recycling	0.085	0.087	0.088	0.090	0.092	0.094	0.094	0.094	0.094	0.094	0.094	0.098	0.102	0.105	0.109	0.113	0.113	0.113	0.113	0.113	0.113
Hazardous waste recycling	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Note: All residues are calculated on the amount of waste arising not on the maount of capacity available. This is complaince with the self-sufficiency requirements of PPS10.

DATA_10: TOTAL MSW AND C&I RESIDUE FROM RECYCLING SENT TO NON-HAZARDOUS LANDFILL (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Total MSW and C&I recycling and composting residue sent to non-hazardous landfill	0.163	0.171	0.180	0.188	0.198	0.208	0.215	0.222	0.229	0.234	0.239	0.247	0.256	0.265	0.274	0.283	0.288	0.293	0.299	0.304	0.309

DATA_11: TOTAL MSW AND C&I RESIDUE FROM RECOVERY SENT TO NON-HAZARDOUS LANDFILL AND C&D RECYCLING (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
SCENARIO 1 - Assumes all recovery is by 'Non-specialist incineration' (based on total recovery capacity)																					
(1) Total MSW and C&I residue sent to non-hazardous landfill assuming all MSW and C&I recovery by 'Non-specialist incineration'	0.022	0.024	0.026	0.029	0.031	0.034	0.039	0.045	0.050	0.055	0.060	0.062	0.064	0.066	0.069	0.071	0.070	0.069	0.068	0.067	0.067
(1) Total MSW and C&I residue sent to inert landfill assuming all MSW and C&I recovery by 'Non-specialist incineration'	0.022	0.024	0.026	0.029	0.031	0.034	0.039	0.045	0.050	0.055	0.060	0.062	0.064	0.066	0.069	0.071	0.070	0.069	0.068	0.067	0.067
SCENARIO 2 - Assumes all recovery is by 'MBT' (based on total recovery capacity)																					
Total MSW and C&I residue sent to non-hazardous landfill	0.086	0.095	0.104	0.113	0.123	0.134	0.155	0.175	0.197	0.216	0.235	0.243	0.252	0.261	0.270	0.279	0.276	0.273	0.269	0.265	0.262
SCENARIO 3 - Assumes all recovery is by 'RDF' (based on total recovery capacity)																					
Total MSW and C&I residue sent to non-hazardous landfill	0.018	0.019	0.021	0.023	0.025	0.027	0.031	0.036	0.040	0.044	0.048	0.049	0.051	0.053	0.055	0.057	0.056	0.055	0.055	0.054	0.053
SCENARIO 4 - Assumes all recovery is by 'treatment' (based on total recovery capacity)																					
Total MSW and C&I residue sent to non-hazardous landfill	0.066	0.073	0.079	0.086	0.094	0.103	0.118	0.134	0.150	0.164	0.179	0.185	0.192	0.199	0.206	0.213	0.211	0.208	0.205	0.202	0.200

(1) It was assumed that 50% of residue from 'non-specialist incineration' is sent to non-hazardous landfill and 50% is sent to inert landfill. In the original model assumptions developed MEL 50% was assumed to go to C&D recycling, rather than to inert landfi

DATA_12: TONNAGES OF C&D REUSED ON NON-HAZARDOUS AND INERT LANDFILL (Million Tonnes)

(1) C&D reused on landfill sites	39 %
(1) C&D reused on exempt sites	61 %
(1) C&D reused on landfill sites sent to 'non-haz landfill'	30 %
(1) C&D reused on landfill sites sent to 'inert landfill'	70 %

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
c&d	Total C&D reused on non-hazardous landfill	0.079	0.077	0.076	0.075	0.074	0.072	0.074	0.075	0.076	0.077	0.079	0.075	0.072	0.068	0.065	0.061	0.062	0.063	0.064	0.065	0.066
	Total reused C&D on inert landfill	0.184	0.181	0.178	0.175	0.172	0.169	0.172	0.175	0.178	0.181	0.184	0.176	0.168	0.159	0.151	0.143	0.145	0.147	0.149	0.151	0.153

(1) C&D reuse rates based on original model assumptions developed MEL
NOTE: C&D reuse on inert and non-hazardous landfill is not included within the charts because it has been assumed that data supplied by each sub-region has accounted for C&D reuse as an engineering material.

DATA_13: TOTAL MSW AND C&I RESIDUE FROM RECYCLING SENT TO HAZARDOUS LANDFILL (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Total MSW and C&I recycling and composting residue sent to hazardous landfill	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

DATA_14: TOTAL MSW AND C&I RESIDUE FROM RECOVERY SENT TO HAZARDOUS LANDFILL (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
SCENARIO 1 - Assumes all recovery is by 'Non-specialist incineration' (based on total recovery capacity)																					
Total MSW and C&I residue sent to hazardous landfill assuming all MSW and C&I recovery by 'Non-specialist incineration'	0.004	0.005	0.005	0.006	0.006	0.007	0.008	0.009	0.010	0.011	0.012	0.012	0.013	0.013	0.014	0.014	0.014	0.014	0.014	0.013	0.013
SCENARIO 2 - Assumes all recovery is by 'MBT' (based on total recovery capacity)																					
Total MSW and C&I residue sent to hazardous landfill	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SCENARIO 3 - Assumes all recovery is by 'RDF' (based on total recovery capacity)																					
Total MSW and C&I residue sent to hazardous landfill	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SCENARIO 4 - Assumes all recovery is by 'treatment' (based on total recovery capacity)																					
Total MSW and C&I residue sent to hazardous landfill	0.007	0.008	0.009	0.010	0.010	0.011	0.013	0.015	0.017	0.018	0.020	0.021	0.021	0.022	0.023	0.024	0.023	0.023	0.023	0.022	0.022

NOTE: This element of the model is redundant. There is currently no hazardous waste capacity figures to generate a chart of managed waste versus available capacity.

DATA_15: TOTAL HAZARDOUS WASTE RESIDUE FROM RECOVERY AND RECYCLING SENT TO HAZARDOUS LANDFILL (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Total hazardous waste recycling and recovery residue sent to hazardous landfill	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Surrey

CHART_06

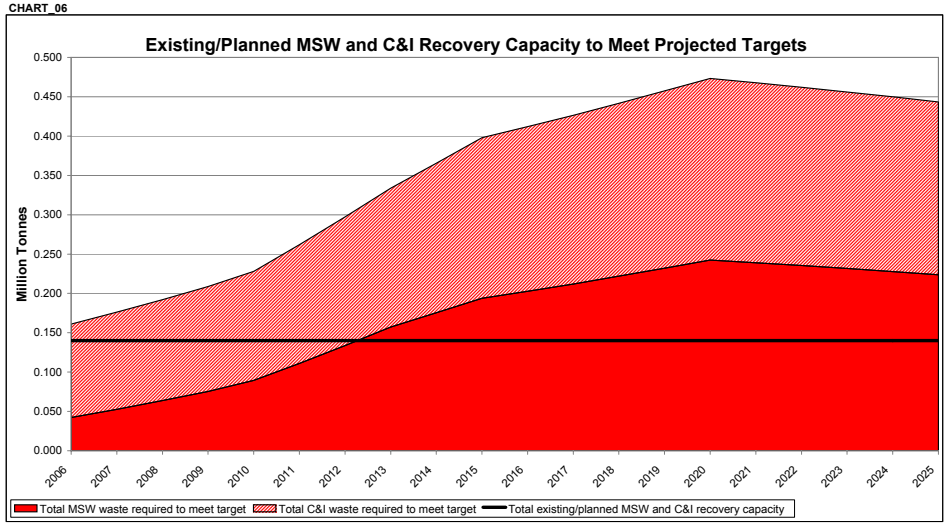


CHART_07

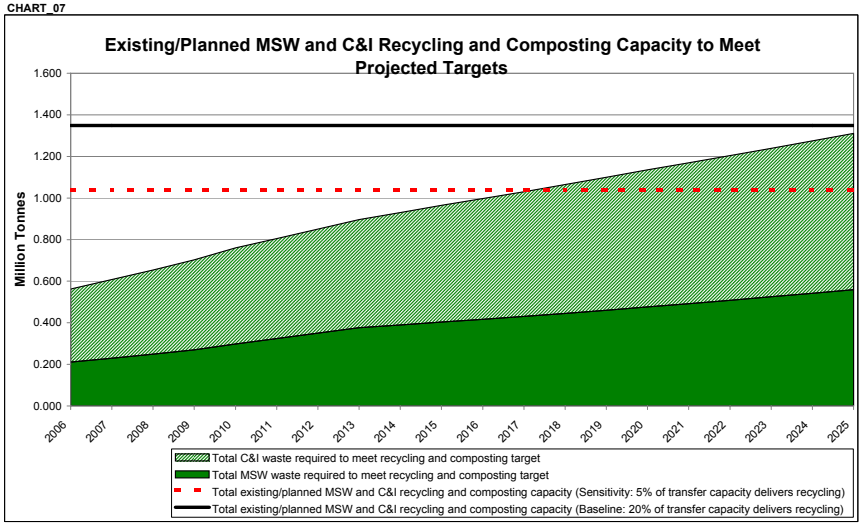
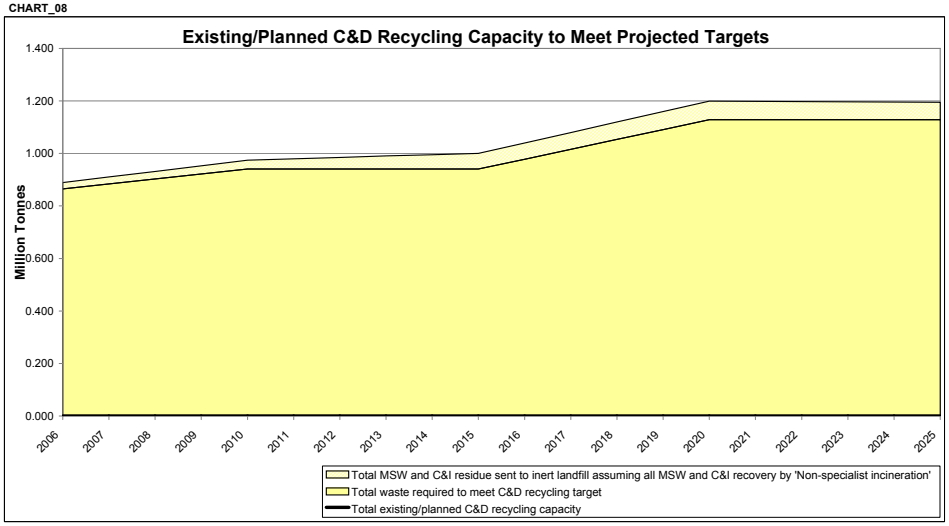


CHART_08



Surrey

CHART_09

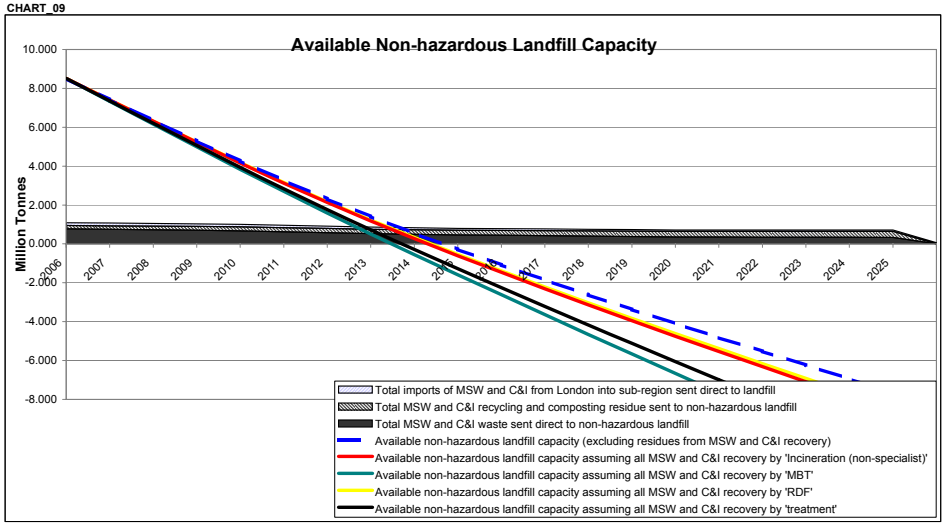
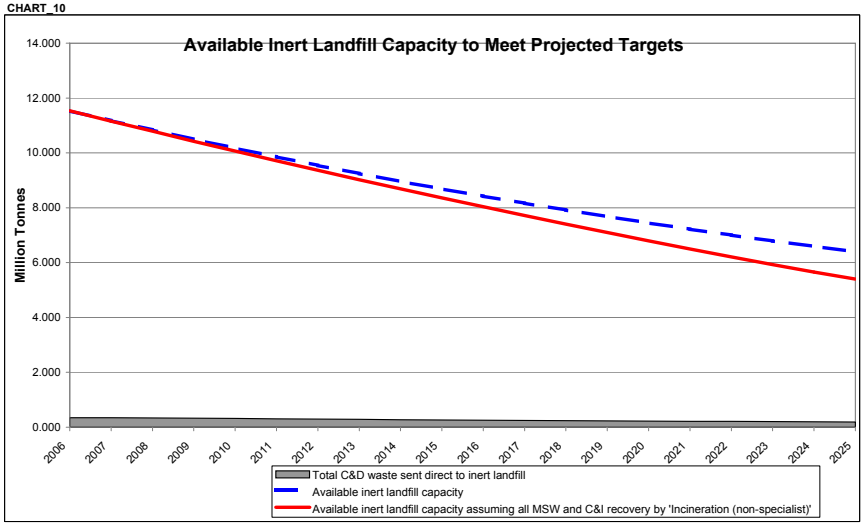


CHART_10



NOTE: The graph assumes that the baseline capacity for non-hazardous landfill has accounted for C&D reuse as a landfill engineering material.

West Sussex

SUMMARY DATA AND RESULTS FOR WEST SUSSEX

MANAGED WASTE USED TO GENERATE RESULTS (Million Tonnes)	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	0.490	0.502	0.515	0.528	0.541	0.552	0.563	0.574	0.585	0.597	0.606	0.615	0.624	0.634	0.643	0.653	0.663	0.673	0.683	0.693
msw - imports from london that are sent direct to non-hazardous landfill	0.062	0.061	0.059	0.057	0.056	0.053	0.050	0.046	0.043	0.040	0.039	0.037	0.035	0.034	0.032	0.031	0.031	0.030	0.029	0.029
c&i	0.876	0.897	0.920	0.943	0.966	0.986	1.006	1.026	1.046	1.067	1.083	1.099	1.116	1.133	1.150	1.161	1.173	1.184	1.196	1.208
c&i - imports from london that are sent direct to non-hazardous landfill	0.111	0.108	0.105	0.103	0.100	0.094	0.089	0.083	0.077	0.072	0.069	0.066	0.063	0.060	0.057	0.056	0.054	0.053	0.051	0.050
c&d	1.302	1.302	1.302	1.302	1.302	1.302	1.302	1.302	1.302	1.302	1.302	1.302	1.302	1.302	1.302	1.302	1.302	1.302	1.302	1.302
hazardous	0.026	0.027	0.027	0.028	0.029	0.029	0.030	0.030	0.031	0.032	0.032	0.033	0.033	0.034	0.034	0.034	0.035	0.035	0.035	0.036

WASTE STREAM TONNAGES TO MEET TARGETS (Million Tonnes)		2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	LATS shortfall (how much extra is landfilled above LATS target)	-0.052	-0.045	-0.035	-0.021	-0.003	*0.004*	*0.010*	*0.016*	*0.006*	-0.004	-0.005	-0.005	-0.007	-0.008	-0.009	-0.009	-0.009	-0.009	-0.009	-0.008
	Recycling and composting target	0.157	0.171	0.185	0.200	0.216	0.235	0.255	0.275	0.285	0.299	0.309	0.320	0.331	0.342	0.354	0.366	0.378	0.390	0.403	0.416
	Recovery target	0.031	0.039	0.047	0.056	0.065	0.080	0.097	0.115	0.128	0.143	0.150	0.157	0.165	0.172	0.180	0.178	0.175	0.172	0.169	0.166
	Non-hazardous landfill	0.302	0.292	0.282	0.271	0.260	0.237	0.210	0.184	0.171	0.155	0.147	0.138	0.129	0.119	0.109	0.110	0.110	0.110	0.111	0.111
c&i	Recycling and composting target	0.368	0.395	0.423	0.453	0.483	0.503	0.523	0.544	0.565	0.587	0.607	0.627	0.647	0.668	0.690	0.708	0.727	0.746	0.766	0.785
	Recovery target	0.124	0.129	0.134	0.140	0.145	0.158	0.171	0.185	0.199	0.213	0.219	0.224	0.230	0.236	0.241	0.239	0.237	0.235	0.232	0.230
	Non-hazardous landfill	0.384	0.373	0.362	0.351	0.338	0.325	0.312	0.297	0.282	0.267	0.258	0.248	0.239	0.229	0.218	0.214	0.209	0.204	0.199	0.193
c&d	Recycling target	0.599	0.612	0.625	0.638	0.651	0.651	0.651	0.651	0.651	0.651	0.677	0.703	0.729	0.755	0.781	0.781	0.781	0.781	0.781	0.781
	Recovery target	0.461	0.453	0.445	0.437	0.430	0.437	0.445	0.453	0.461	0.469	0.448	0.427	0.406	0.385	0.365	0.370	0.375	0.380	0.385	0.391
	Inert landfill	0.242	0.237	0.232	0.227	0.221	0.214	0.206	0.198	0.190	0.182	0.177	0.172	0.167	0.161	0.156	0.151	0.146	0.141	0.135	0.130
hazardous	Hazardous waste	0.026	0.027	0.027	0.028	0.029	0.029	0.030	0.030	0.031	0.032	0.032	0.033	0.033	0.034	0.034	0.034	0.035	0.035	0.035	0.036

Note: If there is a LATS shortfall, denoted by a positive number, (ie insufficient allowance to landfill non-diverted waste) then the model assumes that this extra waste is recycled/composted and recovered at the same ratio as the regional targets for recycling/composting and recovery for that year.

EXISTING/PLANNED CAPACITY FOR RECYCLING, RECOVERY AND LANDFILLING AND TOTAL WASTE TONNAGES TO EACH DISPOSAL ROUTE (Million Tonnes)		2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
MSW and C&I recovery																					
	Total existing/planned MSW and C&I recovery capacity	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341
	Surplus/deficit capacity	0.186	0.173	0.160	0.146	0.132	0.103	0.073	0.042	0.014	-0.015	-0.028	-0.040	-0.053	-0.066	-0.080	-0.075	-0.070	-0.065	-0.060	-0.054
MSW and C&I recycling and composting																					
	Total existing/planned MSW and C&I recycling and composting capacity (Baseline: 20% of transfer capacity delivers recycling)	0.221	0.221	0.221	0.221	0.221	0.221	0.221	0.221	0.221	0.221	0.221	0.221	0.221	0.221	0.221	0.221	0.221	0.221	0.221	0.221
	Total existing/planned MSW and C&I recycling and composting capacity (Sensitivity: 5% of transfer capacity delivers recycling)	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080
	Surplus/deficit capacity (Baseline: 20% of transfer capacity delivers recycling)	-0.303	-0.344	-0.387	-0.432	-0.478	-0.516	-0.556	-0.598	-0.629	-0.664	-0.694	-0.725	-0.757	-0.789	-0.822	-0.852	-0.883	-0.915	-0.947	-0.980
	Surplus/deficit capacity (Sensitivity: 5% of transfer capacity delivers recycling)	-0.444	-0.486	-0.528	-0.573	-0.619	-0.657	-0.698	-0.739	-0.770	-0.805	-0.835	-0.866	-0.898	-0.930	-0.963	-0.994	-1.025	-1.056	-1.088	-1.121
C&D recycling																					
	Total existing/planned C&D recycling capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Surplus/deficit capacity	-0.599	-0.612	-0.625	-0.638	-0.651	-0.651	-0.651	-0.651	-0.651	-0.651	-0.677	-0.703	-0.729	-0.755	-0.781	-0.781	-0.781	-0.781	-0.781	-0.781
C&D recovery																					
	REGIONAL total existing/planned C&D recovery capacity	1.794	1.710	1.627	1.544	1.460	1.439	1.418	1.398	1.377	1.356	1.325	1.293	1.262	1.231	1.199	1.220	1.241	1.262	1.283	1.304
	Surplus/deficit capacity	1.333	1.257	1.182	1.106	1.030	1.002	0.973	0.944	0.916	0.887	0.877	0.866	0.856	0.845	0.835	0.850	0.866	0.882	0.897	0.913
Hazardous waste recycling																					
	Total existing/planned hazardous waste recycling capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Surplus/deficit capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hazardous waste recovery																					
	Total existing/planned hazardous waste recovery capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Surplus/deficit capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Non-hazardous landfill																					
	Available non-hazardous landfill capacity (excluding residues from MSW and C&I recovery)	2.437	1.440	0.459	-0.503	-1.447	-2.370	-3.255	-4.097	-4.895	-5.663	-6.395	-7.111	-7.813	-8.498	-9.166	-9.818	-10.467	-11.115	-11.760	-12.403
	Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'Incineration (non-specialist)'	2.437	1.416	0.411	-0.579	-1.552	-2.507	-3.427	-4.309	-5.153	-5.969	-6.755	-7.527	-8.286	-9.030	-9.760	-10.474	-11.186	-11.895	-12.602	-13.305
	Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'MBT'	2.437	1.348	0.268	-0.802	-1.861	-2.908	-3.933	-4.933	-5.908	-6.869	-7.811	-8.746	-9.672	-10.590	-11.500	-12.399	-13.295	-14.185	-15.070	-15.951
	Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'RDF'	2.437	1.421	0.420	-0.564	-1.531	-2.480	-3.393	-4.267	-5.101	-5.908	-6.683	-7.444	-8.191	-8.924	-9.641	-10.343	-11.042	-11.739	-12.433	-13.125
	Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'treatment'	2.437	1.370	0.314	-0.731	-1.763	-2.780	-3.772	-4.735	-5.668	-6.582	-7.475	-8.358	-9.231	-10.094	-10.946	-11.787	-12.624	-13.456	-14.285	-15.109
Inert landfill																					
	Available inert landfill capacity	0.000	-0.242	-0.479	-0.711	-0.937	-1.159	-1.372	-1.578	-1.776	-1.966	-2.148	-2.325	-2.497	-2.664	-2.825	-2.982	-3.133	-3.278	-3.419	-3.554
	Available inert landfill capacity assuming all MSW and C&I recovery by 'Incineration (non-specialist)'	0.000	-0.266	-0.528	-0.787	-1.043	-1.295	-1.545	-1.791	-2.033	-2.273	-2.508	-2.741	-2.970	-3.196	-3.418	-3.638	-3.851	-4.059	-4.261	-4.456
Hazardous landfill																					
	Available hazardous landfill capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

Note: The model does not contain data for the management of hazardous waste.

DATA_01: ARISINGS AND GROWTH RATES OF MSW, C&I AND HAZARDOUS WASTE (Million Tonnes)		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	Arisings of MSW in baseline year																					
	(1) Forecast regional level growth rate of MSW - per year (%)	3.0%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%	1.5%
	(1) Forecast regional level growth rate of MSW - cumulative (%)	103%	106%	108%	111%	114%	117%	119%	121%	124%	126%	129%	131%	133%	135%	137%	139%	141%	143%	145%	147%	149%
	Total arisings of MSW using regional growth forecasts	0.478	0.490	0.502	0.515	0.528	0.541	0.552	0.563	0.574	0.585	0.597	0.606	0.615	0.624	0.634	0.643	0.653	0.663	0.673	0.683	0.693
	(1) Forecast sub-regional growth rate of MSW - per year (%)	3.0%	3.0%	3.0%	2.0%	2.0%	2.0%	2.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%	1.0%
	(1) Forecast sub-regional level growth rate of MSW - cumulative (%)	103%	106%	109%	111%	114%	116%	118%	119%	121%	122%	123%	124%	126%	127%	128%	129%	131%	132%	133%	135%	136%
	Total arisings of MSW using sub-regional growth forecasts	0.478	0.492	0.507	0.517	0.528	0.538	0.549	0.554	0.560	0.565	0.571	0.577	0.583	0.588	0.594	0.600	0.606	0.612	0.618	0.625	0.631
c&i	Arisings of C&I in baseline year																					
	(1) Forecast regional level growth rate of C&I - per year (%)	3.3%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.0%	1.0%	1.0%	1.0%	1.0%
	(1) Forecast regional level growth rate of C&I - cumulative (%)	107%	109%	112%	115%	118%	121%	123%	126%	128%	131%	133%	135%	137%	139%	141%	144%	145%	146%	148%	149%	151%
	Total arisings of C&I using regional growth forecasts	0.854	0.876	0.897	0.920	0.943	0.966	0.986	1.006	1.026	1.046	1.067	1.083	1.099	1.116	1.133	1.150	1.161	1.173	1.184	1.196	1.208
	(1) Forecast sub-regional level growth rate of C&I - per year (%)	1.5%	1.5%	1.0%	1.0%	1.0%	0.5%	0.5%	0.5%	0.5%	0.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	(1) Forecast sub-regional level growth rate of C&I - cumulative (%)	103%	105%	106%	107%	108%	108%	109%	109%	110%	110%	110%	110%	110%	110%	110%	110%	110%	110%	110%	110%	110%
	Total arisings of C&I using sub-regional growth forecasts	0.825	0.838	0.846	0.854	0.863	0.867	0.872	0.876	0.880	0.885	0.885	0.885	0.885	0.885	0.885	0.885	0.885	0.885	0.885	0.885	0.885
hazardous	Arisings of hazardous waste in baseline year																					
	(2) Forecast regional level growth rate of hazardous waste - per year (%)	3.3%	2.5%	2.5%	2.5%	2.5%	2.5%	2.0%	2.0%	2.0%	2.0%	2.0%	1.5%	1.5%	1.5%	1.5%	1.5%	1.0%	1.0%	1.0%	1.0%	1.0%
	Forecast regional level growth rate of hazardous waste - cumulative (%)	107%	109%	112%	115%	118%	121%	123%	126%	128%	131%	133%	135%	137%	139%	141%	144%	145%	146%	148%	149%	151%
	Total arisings of hazardous waste	0.025	0.026	0.027	0.027	0.028	0.029	0.029	0.030	0.030	0.031	0.032	0.032	0.033	0.033	0.034	0.034	0.034	0.035	0.035	0.035	0.036
	(2) Forecast sub-regional level growth rate of hazardous waste - per year (%)	1.5%	1.5%	1.0%	1.0%	1.0%	0.5%	0.5%	0.5%	0.5%	0.5%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Forecast sub regional level growth rate of hazardous waste - cumulative (%)	103%	105%	106%	107%	108%	108%	109%	109%	110%	110%	110%	110%	110%	110%	110%	110%	110%	110%	110%	110%	110%
	Total arisings of hazardous waste	0.024	0.025	0.025	0.025	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026	0.026
c&d	Total managed C&D in baseline year																					
	(3) Forecast regional-level growth rate of managed C&D - per year (%)	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%	0.0%
	Forecast regional-level growth rate of managed C&D - cumulative (%)	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%	100%
	(3) Total managed of C&D for the sub-region	1.302	1.302	1.302	1.302	1.302	1.302	1.302	1.302	1.302	1.302	1.302	1.302	1.302	1.302	1.302	1.302	1.302	1.302	1.302	1.302	1.302

(1) Figures from SEERA updated waste capacity model by ERM in 2005.
(2) Baseline year of hazardous waste arisings is 2003 from EA Hazardous Waste Interrogator. www.environment-agency.gov.uk/apps/wastesurvey2/. ERM has assumed that growth in hazardous waste is equal to C&I waste.
(3) These data represent managed C&D waste in the sub-region, including all intra-regional and inter-regional movements. Growth is assumed to be zero from the orginal MEL study and updated modeted by ERM in 2005.
NOTE: C&D waste is not included in arisings because this was taken from survey data by Symonds 2001 which gave values for managed C&D waste.

West Sussex

Figure in blue represent data supplied by each sub-region for the new '2006 SEERA Capacity and Need Model'
Figures in orange represent managed waste that are used by the model to calculate results. These can be adjusted for different scenarios.

DATA_02: INTER REGIONAL MOVEMENTS OF MSW and C&I (Million Tonnes)		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw and c&i	Regional level imports of MSW and C&I waste into the SE region from London	1.76	1.716	1.672	1.628	1.584	1.54	1.454	1.368	1.282	1.196	1.11	1.064	1.018	0.972	0.926	0.88	0.86	0.84	0.82	0.8	0.78
	Proportion of regional MSW and C&I imports that go to the sub-region (%)	10.1%	10.1%	10.1%	10.1%	10.1%	10.1%	10.1%	10.1%	10.1%	10.1%	10.1%	10.1%	10.1%	10.1%	10.1%	10.1%	10.1%	10.1%	10.1%	10.1%	10.1%
	(1) Total imports of MSW and C&I from London into sub-region sent direct to landfill	0.178	0.173	0.169	0.164	0.160	0.156	0.147	0.138	0.129	0.121	0.112	0.107	0.103	0.098	0.094	0.089	0.087	0.085	0.083	0.081	0.079
msw	Proportion of total MSW and C&I imports that are MSW (%) - REGIONAL GROWTH FORECAST	36%	36%	36%	36%	36%	36%	36%	36%	36%	36%	36%	36%	36%	36%	36%	36%	36%	36%	36%	36%	36%
	Total imports of MSW into the sub-region from London - REGIONAL GROWTH FORECAST	0.064	0.062	0.061	0.059	0.057	0.056	0.053	0.050	0.046	0.043	0.040	0.039	0.037	0.035	0.034	0.032	0.031	0.031	0.030	0.029	0.029
	Proportion of total MSW and C&I imports that are MSW (%) - SUB-REGIONAL GROWTH FORECAST	37%	37%	37%	38%	38%	38%	39%	39%	39%	39%	39%	39%	40%	40%	40%	40%	41%	41%	41%	41%	42%
	Total imports of MSW into the sub-region from London - SUB-REGIONAL GROWTH FORECAST	0.065	0.064	0.063	0.062	0.061	0.060	0.057	0.054	0.050	0.047	0.044	0.042	0.041	0.039	0.038	0.036	0.035	0.035	0.034	0.033	0.033
c&i	Proportion of total MSW and C&I imports that are C&I (%) - REGIONAL GROWTH FORECAST	64%	64%	64%	64%	64%	64%	64%	64%	64%	64%	64%	64%	64%	64%	64%	64%	64%	64%	64%	64%	64%
	Total imports of C&I into the sub-region from London - REGIONAL GROWTH FORECAST	0.114	0.111	0.108	0.105	0.103	0.100	0.094	0.089	0.083	0.077	0.072	0.069	0.066	0.063	0.060	0.057	0.056	0.054	0.053	0.051	0.050
	Proportion of total MSW and C&I imports that are C&I (%) - SUB-REGIONAL GROWTH FORECAST	63%	63%	63%	62%	62%	62%	61%	61%	61%	61%	61%	61%	60%	60%	60%	60%	59%	59%	59%	59%	58%
	Total imports of C&I into the sub-region from London - SUB-REGIONAL GROWTH FORECAST	0.113	0.109	0.106	0.102	0.099	0.096	0.090	0.085	0.079	0.074	0.068	0.065	0.062	0.059	0.056	0.053	0.052	0.050	0.049	0.047	0.046

(1) Intra-regional and inter-regional movements have been excluded for MSW and C&I waste due to self-sufficiency requirements under PPS10, except for inter-regional movements from London into the sub-region. Apportionment from Policy W3 in the Plan – downloa
Note: Only a figure is available for total combined imports of MSW and C&I waste. ERM has assumed that imports of the seperate waste streams of MSW and C&I was split according to tonnage arisings of MSW and C&I in the sub-region.

DATA_03: MANAGED WASTE USED TO GENERATE RESULTS (Million Tonnes)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	0.478	0.490	0.502	0.515	0.528	0.541	0.552	0.563	0.574	0.585	0.597	0.606	0.615	0.624	0.634	0.643	0.653	0.663	0.673	0.683	0.693
msw - imports from london that are sent direct to non-hazardous landfill	0.064	0.062	0.061	0.059	0.057	0.056	0.053	0.050	0.046	0.043	0.040	0.039	0.037	0.035	0.034	0.032	0.031	0.031	0.030	0.029	0.029
c&i	0.854	0.876	0.897	0.920	0.943	0.966	0.986	1.006	1.026	1.046	1.067	1.083	1.099	1.116	1.133	1.150	1.161	1.173	1.184	1.196	1.208
c&i - imports from london that are sent direct to non-hazardous landfill	0.114	0.111	0.108	0.105	0.103	0.100	0.094	0.089	0.083	0.077	0.072	0.069	0.066	0.063	0.060	0.057	0.056	0.054	0.053	0.051	0.050
c&d	1.302	1.302	1.302	1.302	1.302	1.302	1.302	1.302	1.302	1.302	1.302	1.302	1.302	1.302	1.302	1.302	1.302	1.302	1.302	1.302	1.302
hazardous	0.025	0.026	0.027	0.027	0.028	0.029	0.029	0.030	0.030	0.031	0.032	0.032	0.033	0.033	0.034	0.034	0.034	0.035	0.035	0.035	0.036

DATA_04: TARGETS (% or Million Tonnes)		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	(1) landfill (Mt)	0.266	0.257	0.244	0.227	0.205	0.180	0.160	0.140	0.120	0.115	0.109	0.104	0.099	0.094	0.089	0.084	0.084	0.084	0.084	0.084	0.084
	recovered (%)	5	6.4	7.8	9.2	10.6	12	14.4	16.8	19.2	21.6	24	24.8	25.6	26.4	27.2	28	27.2	26.4	25.6	24.8	24
	recycled and composted (%)	30	32.0	34.0	36.0	38.0	40	42.0	44.0	46.0	48.0	50	51.0	52.0	53.0	54.0	55	56.0	57.0	58.0	59.0	60
c&i	recovered (%)	14	14.2	14.4	14.6	14.8	15	16.0	17.0	18.0	19.0	20	20.2	20.4	20.6	20.8	21	20.6	20.2	19.8	19.4	19
	recycled and composted (%)	40	42.0	44.0	46.0	48.0	50	51.0	52.0	53.0	54.0	55	56.0	57.0	58.0	59.0	60	61.0	62.0	63.0	64.0	65
c&d	recovered (%)	36	35.4	34.8	34.2	33.6	33	33.6	34.2	34.8	35.4	36	34.4	32.8	31.2	29.6	28	28.4	28.8	29.2	29.6	30
	recycled (%)	45	46.0	47.0	48.0	49.0	50	50.0	50.0	50.0	50.0	50	52.0	54.0	56.0	58.0	60	60.0	60.0	60.0	60.0	60
hazardous	landfill (%)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	recovered (%)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
	recycled (%)	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

(1) ERM has assumed that the LATS target allowance remains constant at the 2020 value for the years beyond 2020

DATA_05: WASTE STREAM TONNAGES TO MEET TARGETS (Million Tonnes)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025

This first section of DATA_03 calculates if there is a LATS shortfall or suplus in each year. If there is a LATS shortfall (ie insufficient allowance to landfill non-diverted waste) then the model assumes that this extra waste is recycled/composted and r

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	Total MSW to be recovered and recycled/composted to meet target	0.167	0.188	0.210	0.233	0.256	0.281	0.311	0.342	0.374	0.407	0.442	0.459	0.477	0.496	0.515	0.534	0.543	0.553	0.562	0.572	0.582
	Total MSW not-diverted by targets	0.311	0.302	0.292	0.282	0.271	0.260	0.240	0.221	0.200	0.178	0.155	0.147	0.138	0.129	0.119	0.109	0.110	0.110	0.110	0.111	0.111
	Percentage of MSW that is biodegradable (% by weight)	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68	68
	Total BMW not-diverted by targets	0.211	0.205	0.199	0.192	0.184	0.176	0.164	0.150	0.136	0.121	0.106	0.100	0.094	0.087	0.081	0.074	0.075	0.075	0.075	0.075	0.075
	LATS shortfall (how much extra is landfilled above LATS target)	-0.054	-0.052	-0.045	-0.035	-0.021	-0.003	0.004	0.010	0.016	0.006	-0.004	-0.005	-0.005	-0.007	-0.008	-0.009	-0.009	-0.009	-0.009	-0.009	-0.008
	Ratio of 'recovered' to 'recycled/composted' for target (%)	14%	17%	19%	20%	22%	23%	26%	28%	29%	31%	32%	33%	33%	33%	33%	34%	33%	32%	31%	30%	29%
	Extra MSW 'recovery' needed due to LATS shortfall	0.000	0.000	0.000	0.000	0.000	0.000	*0.001*	*0.003*	*0.005*	*0.002*	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
	Extra MSW 'recycling/composting' needed due to LATS shortfall	0.000	0.000	0.000	0.000	0.000	0.000	*0.003*	*0.007*	*0.011*	*0.004*	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

The section below in DATA_03 shows the tonnages by waste to meet targets.

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
msw	Recycling and composting target	0.143	0.157	0.171	0.185	0.200	0.216	0.235	0.255	0.275	0.285	0.299	0.309	0.320	0.331	0.342	0.354	0.366	0.378	0.390	0.403	0.416
	Recovery target	0.024	0.031	0.039	0.047	0.056	0.065	0.080	0.097	0.115	0.128	0.143	0.150	0.157	0.165	0.172	0.180	0.178	0.175	0.172	0.169	0.166
	Non-hazardous landfill	0.311	0.302	0.292	0.282	0.271	0.260	0.237	0.210	0.184	0.171	0.155	0.147	0.138	0.129	0.119	0.109	0.110	0.110	0.110	0.111	0.111
	CHECK COUNTER (should be zero)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
c&i	Recycling and composting target	0.342	0.368	0.395	0.423	0.453	0.483	0.503	0.523	0.544	0.565	0.587	0.607	0.627	0.647	0.668	0.690	0.708	0.727	0.746	0.766	0.785
	Recovery target	0.120	0.124	0.129	0.134	0.140	0.145	0.158	0.171	0.185	0.199	0.213	0.219	0.224	0.230	0.236	0.241	0.239	0.237	0.235	0.232	0.230
	Non-hazardous landfill	0.393	0.384	0.373	0.362	0.351	0.338	0.325	0.312	0.297	0.282	0.267	0.258	0.248	0.239	0.229	0.218	0.214	0.209	0.204	0.199	0.193
	CHECK COUNTER (should be zero)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
c&d	Recycling target	0.586	0.599	0.612	0.625	0.638	0.651	0.651	0.651	0.651	0.651	0.651	0.677	0.703	0.729	0.755	0.781	0.781	0.781	0.781	0.781	0.781
	Recovery target	0.469	0.461	0.453	0.445	0.437	0.430	0.437	0.445	0.453	0.461	0.469	0.448	0.427	0.406	0.385	0.365	0.370	0.375	0.380	0.385	0.391
	Inert landfill	0.247	0.242	0.237	0.232	0.227	0.221	0.214	0.206	0.198	0.190	0.182	0.177	0.172	0.167	0.161	0.156	0.151	0.146	0.141	0.135	0.130
	CHECK COUNTER (should be zero)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
hazardous	Hazardous waste	0.025	0.026	0.027	0.027	0.028	0.029	0.029	0.030	0.030	0.031	0.032	0.032	0.033	0.033	0.034	0.034	0.034	0.035	0.035	0.035	0.036

DATA_06: TOTAL WASTE TONNAGES TO MEET TARGETS (Million Tonnes)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
MSW and C&I recycling and composting target	0.485	0.525	0.566	0.608	0.653	0.700	0.737	0.778	0.819	0.850	0.885	0.916	0.946	0.978	1.010	1.043	1.074	1.105	1.136	1.168	1.201
C&D recycling target	0.586	0.599	0.612	0.625	0.638	0.651	0.651	0.651	0.651	0.651	0.651	0.677	0.703	0.729	0.755	0.781	0.781	0.781	0.781	0.781	0.781
MSW and C&I recovery target	0.143	0.156	0.168	0.182	0.195	0.210	0.238	0.268	0.300	0.327	0.357	0.369	0.382	0.395	0.408	0.421	0.417	0.412	0.407	0.401	0.396
C&D recovery target	0.469	0.461	0.453	0.445	0.437	0.430	0.437	0.445	0.453	0.461	0.469	0.448	0.427	0.406	0.385	0.365	0.370	0.375	0.380	0.385	0.391
Non-hazardous landfill	0.704	0.685	0.666	0.644	0.622	0.598	0.562	0.522	0.481	0.454	0.422	0.404	0.386	0.367	0.348	0.328	0.323	0.319	0.314	0.309	0.304
Inert landfill	0.247	0.242	0.237	0.232	0.227	0.221	0.214	0.206	0.198	0.190	0.182	0.177	0.172	0.167	0.161	0.156	0.151	0.146	0.141	0.135	0.130
Hazardous waste	0.025	0.026	0.027	0.027	0.028	0.029	0.029	0.030	0.030	0.031	0.032	0.032	0.033	0.033	0.034	0.034	0.034	0.035	0.035	0.035	0.036

West Sussex

CHART_01

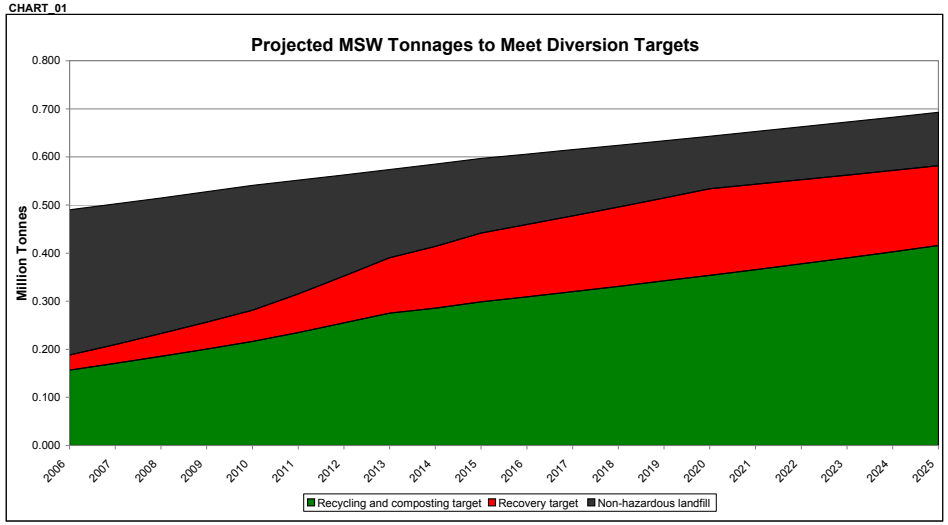
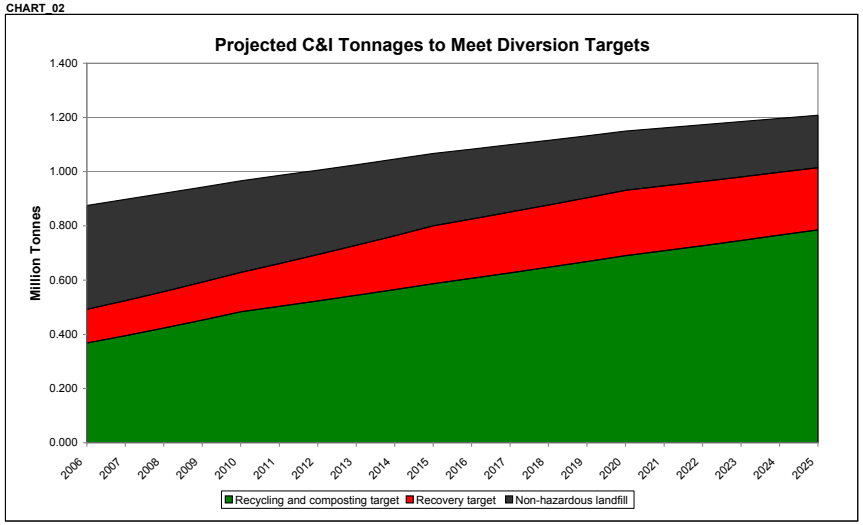


CHART_02



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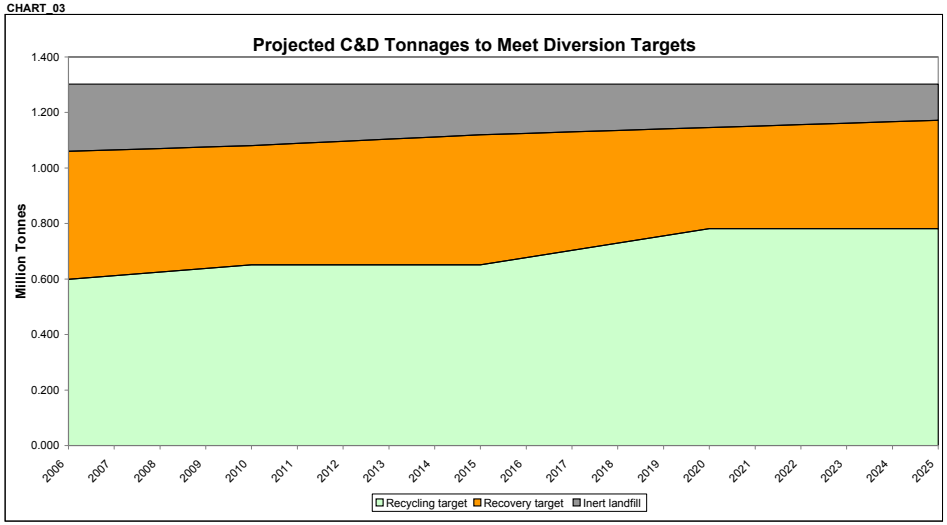

CHART_04

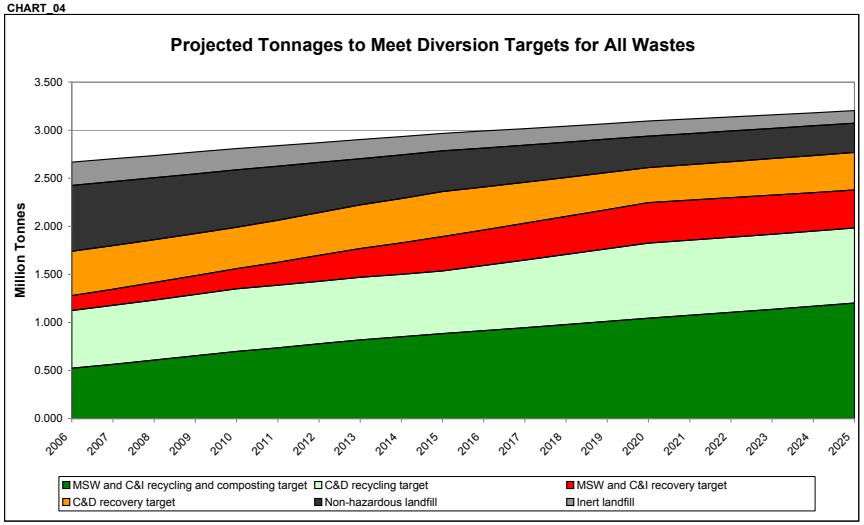

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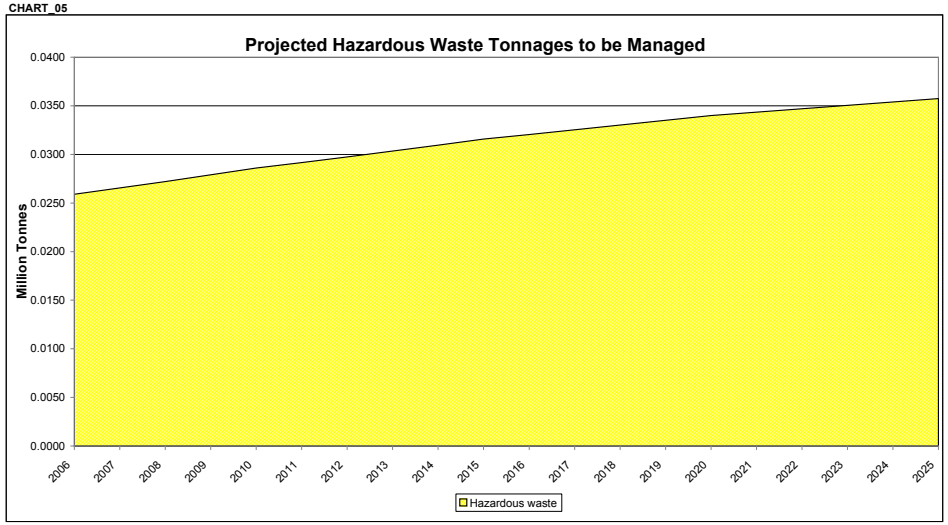
CHART_05



DATA_07: EXISTING/PLANNED CAPACITY FOR RECYCLING, RECOVERY AND LANDFILLING AND TOTAL WASTE TONNAGES TO EACH DISPOSAL ROUTE (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
MSW and C&I recovery																					
MSW and C&I incineration (non-specialist)	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
MSW and C&I treatment	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341
Total existing/planned MSW and C&I recovery capacity	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341	0.341
Total MSW waste required to meet target	0.024	0.031	0.039	0.047	0.056	0.065	0.080	0.097	0.115	0.128	0.143	0.150	0.157	0.165	0.172	0.180	0.178	0.175	0.172	0.169	0.166
Total C&I waste required to meet target	0.120	0.124	0.129	0.134	0.140	0.145	0.158	0.171	0.185	0.199	0.213	0.219	0.224	0.230	0.236	0.241	0.239	0.237	0.235	0.232	0.230
Surplus/deficit capacity	0.198	0.186	0.173	0.160	0.146	0.132	0.103	0.073	0.042	0.014	-0.015	-0.028	-0.040	-0.053	-0.066	-0.080	-0.075	-0.070	-0.065	-0.060	-0.054
MSW and C&I recycling and composting																					
MSW and C&I recycling	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
MSW and C&I transfer	0.942	0.942	0.942	0.942	0.942	0.942	0.942	0.942	0.942	0.942	0.942	0.942	0.942	0.942	0.942	0.942	0.942	0.942	0.942	0.942	0.942
Total existing/planned MSW and C&I composting capacity	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033	0.033
(1) Total existing/planned MSW and C&I recycling and composting capacity (Baseline: 20% of transfer capacity delivers recycling)	0.221	0.221	0.221	0.221	0.221	0.221	0.221	0.221	0.221	0.221	0.221	0.221	0.221	0.221	0.221	0.221	0.221	0.221	0.221	0.221	0.221
(2) Total existing/planned MSW and C&I recycling and composting capacity (Sensitivity: 5% of transfer capacity delivers recycling)	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080	0.080
Total MSW waste required to meet recycling and composting target	0.143	0.157	0.171	0.185	0.200	0.216	0.235	0.255	0.275	0.285	0.299	0.309	0.320	0.331	0.342	0.354	0.366	0.378	0.390	0.403	0.416
Total C&I waste required to meet recycling and composting target	0.342	0.368	0.395	0.423	0.453	0.483	0.503	0.523	0.544	0.565	0.587	0.607	0.627	0.647	0.668	0.690	0.708	0.727	0.746	0.766	0.785
Surplus/deficit capacity (Baseline: 20% of transfer capacity delivers recycling)	-0.264	-0.303	-0.344	-0.387	-0.432	-0.478	-0.516	-0.556	-0.598	-0.629	-0.664	-0.694	-0.725	-0.757	-0.789	-0.822	-0.852	-0.883	-0.915	-0.947	-0.980
Surplus/deficit capacity (Sensitivity: 5% of transfer capacity delivers recycling)	-0.405	-0.444	-0.486	-0.528	-0.573	-0.619	-0.657	-0.698	-0.739	-0.770	-0.805	-0.835	-0.866	-0.898	-0.930	-0.963	-0.994	-1.025	-1.056	-1.088	-1.121
C&D recycling																					
(3) Total existing/planned C&D recycling capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total waste required to meet C&D recycling target	0.586	0.599	0.612	0.625	0.638	0.651	0.651	0.651	0.651	0.651	0.651	0.677	0.703	0.729	0.755	0.781	0.781	0.781	0.781	0.781	0.781
Surplus/deficit capacity	-0.586	-0.599	-0.612	-0.625	-0.638	-0.651	-0.651	-0.651	-0.651	-0.651	-0.651	-0.677	-0.703	-0.729	-0.755	-0.781	-0.781	-0.781	-0.781	-0.781	-0.781
C&D recovery																					
REGIONAL total existing/planned C&D recovery capacity	1.877	1.794	1.710	1.627	1.544	1.460	1.439	1.418	1.398	1.377	1.356	1.325	1.293	1.262	1.231	1.199	1.220	1.241	1.262	1.283	1.304
Sub-regional total waste required to meet C&D recovery target	0.469	0.461	0.453	0.445	0.437	0.430	0.437	0.445	0.453	0.461	0.469	0.448	0.427	0.406	0.385	0.365	0.370	0.375	0.380	0.385	0.391
Surplus/deficit capacity	1.409	1.333	1.257	1.182	1.106	1.030	1.002	0.973	0.944	0.916	0.887	0.877	0.866	0.856	0.845	0.835	0.850	0.866	0.882	0.897	0.913
Hazardous waste recycling																					
Total existing/planned hazardous waste recycling capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total hazardous waste to be recycled	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Surplus/deficit capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Hazardous waste recovery																					
Total existing/planned hazardous waste recovery capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total hazardous waste to be recovered	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Surplus/deficit capacity	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Non-hazardous landfill																					
Available non-hazardous landfill capacity (excluding residues from MSW and C&I recovery)		2.437	1.440	0.459	-0.503	-1.447	-2.370	-3.255	-4.097	-4.895	-5.663	-6.395	-7.111	-7.813	-8.498	-9.166	-9.818	-10.467	-11.115	-11.760	-12.403
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'Incineration (non-specialist)'		2.437	1.416	0.411	-0.579	-1.552	-2.507	-3.427	-4.309	-5.153	-5.969	-6.755	-7.527	-8.286	-9.030	-9.760	-10.474	-11.186	-11.895	-12.602	-13.305
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'MBT'		2.437	1.348	0.268	-0.802	-1.861	-2.908	-3.933	-4.933	-5.908	-6.869	-7.811	-8.746	-9.672	-10.590	-11.500	-12.399	-13.295	-14.185	-15.070	-15.951
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'RDF'		2.437	1.421	0.420	-0.564	-1.531	-2.480	-3.393	-4.267	-5.101	-5.908	-6.683	-7.444	-8.191	-8.924	-9.641	-10.343	-11.042	-11.739	-12.433	-13.125
Available non-hazardous landfill capacity assuming all MSW and C&I recovery by 'treatment'		2.437	1.370	0.314	-0.731	-1.763	-2.780	-3.772	-4.735	-5.668	-6.582	-7.475	-8.358	-9.231	-10.094	-10.946	-11.787	-12.624	-13.456	-14.285	-15.109
Total MSW and C&I waste sent direct to non-hazardous landfill		0.685	0.666	0.644	0.622	0.598	0.562	0.522	0.481	0.454	0.422	0.404	0.386	0.367	0.348	0.328	0.323	0.319	0.314	0.309	0.304
Inert landfill																					
Available inert landfill capacity		0.000	-0.242	-0.479	-0.711	-0.937	-1.159	-1.372	-1.578	-1.776	-1.966	-2.148	-2.325	-2.497	-2.664	-2.825	-2.982	-3.133	-3.278	-3.419	-3.554
Available inert landfill capacity assuming all MSW and C&I recovery by 'Incineration (non-specialist)'		0.000	-0.266	-0.528	-0.787	-1.043	-1.295	-1.545	-1.791	-2.033	-2.273	-2.508	-2.741	-2.970	-3.196	-3.418	-3.638	-3.851	-4.059	-4.261	-4.456
Total C&D waste sent direct to inert landfill	0.247	0.242	0.237	0.232	0.227	0.221	0.214	0.206	0.198	0.190	0.182	0.177	0.172	0.167	0.161	0.156	0.151	0.146	0.141	0.135	0.130
Hazardous landfill																					
Available hazardous landfill capacity	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
Total hazardous waste sent direct to hazardous landfill	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Other																					
Metal/ELV facility	0.413	0.413	0.413	0.413	0.413	0.413	0.413	0.413	0.413	0.413	0.413	0.413	0.413	0.413	0.413	0.413	0.413	0.413	0.413	0.413	0.413
Ignored	0.150	0.150	0.150	0.150	0.150	0.150	0.150	0.150	0.150	0.150	0.150	0.150	0.150	0.150	0.150	0.150	0.150	0.150	0.150	0.150	0.150
Closed	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000

(1) ERM has assumed that 20% of the total 'transfer' capacity will deliver recycling capacity
(2) ERM has assumed that 5% of the total 'transfer' capacity will deliver recycling capacity
(3) Data for C&D recovery for landfill cover for the SE Region were sourced from the original MEL model, which sourced the data from Symonds (2001)
Note: The capacity model developed by ERM for this study does not include the capacity provided in the 'Others' group in its calculations because these are not relevant to the management of MSW, C&I and C&D. These data are included for the purposes of completeness.

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DATA_08: RESIDUE RATES (%)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Recovery residues (% by weight)																					
MSW and C&I incineration (non-specialist) - bottom ash	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30	30
MSW and C&I incineration (non-specialist) - fly ash	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3	3
MSW and C&I to MBT	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59	59
MSW and C&I to RDF	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12	12
MSW and C&I treatment - non-hazardous	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45	45
MSW and C&I treatment - hazardous	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Hazardous waste recovery	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Recycling residues (% by weight)																					
MSW and C&I recycling	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
(2) MSW and C&I transfer	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
MSW and C&I composting	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15	15
C&D recycling	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Hazardous waste recycling	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5	5
Other																					
Metal/ELV facility	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10
Ignored	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Closed	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Note: The capacity model developed by ERM for this study does not include the capacity provided in the 'Others' group in its calculations because these are not relevant to the management of MSW, C&I and C&D. These data are included for the purposes of completeness.

DATA_09: TOTAL RESIDUE (Million Tonnes)	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Recovery residues (of waste managed):																					
MSW and C&I incineration (non-specialist) - bottom ash	0.043	0.047	0.051	0.054	0.059	0.063	0.071	0.080	0.090	0.098	0.107	0.111	0.115	0.118	0.122	0.126	0.125	0.124	0.122	0.120	0.119
MSW and C&I incineration (non-specialist) - fly ash	0.004	0.005	0.005	0.005	0.006	0.006	0.007	0.008	0.009	0.010	0.011	0.011	0.011	0.012	0.012	0.013	0.013	0.012	0.012	0.012	0.012
MSW and C&I to MBT	0.085	0.092	0.099	0.107	0.115	0.124	0.141	0.158	0.177	0.193	0.210	0.218	0.225	0.233	0.241	0.249	0.246	0.243	0.240	0.237	0.234
MSW and C&I to RDF	0.017	0.019	0.020	0.022	0.023	0.025	0.029	0.032	0.036	0.039	0.043	0.044	0.046	0.047	0.049	0.051	0.050	0.049	0.049	0.048	0.048
MSW and C&I treatment - non-hazardous	0.065	0.070	0.076	0.082	0.088	0.094	0.107	0.121	0.135	0.147	0.161	0.166	0.172	0.178	0.184	0.190	0.188	0.185	0.183	0.181	0.178
MSW and C&I treatment - hazardous	0.007	0.008	0.008	0.009	0.010	0.010	0.012	0.013	0.015	0.016	0.018	0.018	0.019	0.020	0.020	0.021	0.021	0.021	0.020	0.020	0.020
Hazardous waste recovery	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A
Recycling residues (of waste managed):																					
MSW and C&I recycling and composting	0.073	0.079	0.085	0.091	0.098	0.105	0.111	0.117	0.123	0.128	0.133	0.137	0.142	0.147	0.152	0.157	0.161	0.166	0.170	0.175	0.180
C&D recycling	0.059	0.060	0.061	0.062	0.064	0.065	0.065	0.065	0.065	0.065	0.065	0.068	0.070	0.073	0.076	0.078	0.078	0.078	0.078	0.078	0.078
Hazardous waste recycling	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

Note: All residues are calculated on the amount of waste arising not on the maount of capacity available. This is complaince with the self-sufficiency requirements of PPS10.

DATA_10: TOTAL MSW AND C&I RESIDUE FROM RECYCLING SENT TO NON-HAZARDOUS LANDFILL (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Total MSW and C&I recycling and composting residue sent to non-hazardous landfill	0.131	0.139	0.146	0.154	0.162	0.170	0.176	0.182	0.188	0.193	0.198	0.205	0.212	0.220	0.227	0.235	0.239	0.244	0.249	0.253	0.258

DATA_11: TOTAL MSW AND C&I RESIDUE FROM RECOVERY SENT TO NON-HAZARDOUS LANDFILL AND C&D RECYCLING (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
SCENARIO 1 - Assumes all recovery is by 'Non-specialist incineration' (based on total recovery capacity)																					
(1) Total MSW and C&I residue sent to non-hazardous landfill assuming all MSW and C&I recovery by 'Non-specialist incineration'	0.022	0.023	0.025	0.027	0.029	0.031	0.036	0.040	0.045	0.049	0.054	0.055	0.057	0.059	0.061	0.063	0.063	0.062	0.061	0.060	0.059
(1) Total MSW and C&I residue sent to inert landfill assuming all MSW and C&I recovery by 'Non-specialist incineration'	0.022	0.023	0.025	0.027	0.029	0.031	0.036	0.040	0.045	0.049	0.054	0.055	0.057	0.059	0.061	0.063	0.063	0.062	0.061	0.060	0.059
SCENARIO 2 - Assumes all recovery is by 'MBT' (based on total recovery capacity)																					
Total MSW and C&I residue sent to non-hazardous landfill	0.085	0.092	0.099	0.107	0.115	0.124	0.141	0.158	0.177	0.193	0.210	0.218	0.225	0.233	0.241	0.249	0.246	0.243	0.240	0.237	0.234
SCENARIO 3 - Assumes all recovery is by 'RDF' (based on total recovery capacity)																					
Total MSW and C&I residue sent to non-hazardous landfill	0.017	0.019	0.020	0.022	0.023	0.025	0.029	0.032	0.036	0.039	0.043	0.044	0.046	0.047	0.049	0.051	0.050	0.049	0.049	0.048	0.048
SCENARIO 4 - Assumes all recovery is by 'treatment' (based on total recovery capacity)																					
Total MSW and C&I residue sent to non-hazardous landfill	0.065	0.070	0.076	0.082	0.088	0.094	0.107	0.121	0.135	0.147	0.161	0.166	0.172	0.178	0.184	0.190	0.188	0.185	0.183	0.181	0.178

(1) It was assumed that 50% of residue from 'non-specialist incineration' is sent to non-hazardous landfill and 50% is sent to inert landfill. In the original model assumptions developed MEL 50% was assumed to go to C&D recycling, rather than to inert landfi

DATA_12: TONNAGES OF C&D REUSED ON NON-HAZARDOUS AND INERT LANDFILL (Million Tonnes)

(1)	C&D reused on landfill sites	39 %
(1)	C&D reused on exempt sites	61 %
(1)	C&D reused on landfill sites sent to 'non-haz landfill'	30 %
(1)	C&D reused on landfill sites sent to 'inert landfill'	70 %

		2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
c&d	Total C&D reused on non-hazardous landfill	0.055	0.054	0.053	0.052	0.051	0.050	0.051	0.052	0.053	0.054	0.055	0.052	0.050	0.047	0.045	0.042	0.043	0.044	0.044	0.045	0.045
	Total reused C&D on inert landfill	0.127	0.125	0.123	0.121	0.119	0.117	0.119	0.121	0.123	0.125	0.127	0.122	0.116	0.110	0.105	0.099	0.100	0.102	0.103	0.105	0.106

(1) C&D reuse rates based on original model assumptions developed MEL

NOTE: C&D reuse on inert and non-hazardous landfill is not included within the charts because it has been assumed that data supplied by each sub-region has accounted for C&D reuse as an engineering material.

DATA_13: TOTAL MSW AND C&I RESIDUE FROM RECYCLING SENT TO HAZARDOUS LANDFILL (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Total MSW and C&I recycling and composting residue sent to hazardous landfill	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

DATA_14: TOTAL MSW AND C&I RESIDUE FROM RECOVERY SENT TO HAZARDOUS LANDFILL (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
SCENARIO 1 - Assumes all recovery is by 'Non-specialist incineration' (based on total recovery capacity)																					
Total MSW and C&I residue sent to hazardous landfill assuming all MSW and C&I recovery by 'Non-specialist incineration'	0.004	0.005	0.005	0.005	0.006	0.006	0.007	0.008	0.009	0.010	0.011	0.011	0.011	0.012	0.012	0.013	0.013	0.012	0.012	0.012	0.012
SCENARIO 2 - Assumes all recovery is by 'MBT' (based on total recovery capacity)																					
Total MSW and C&I residue sent to hazardous landfill	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SCENARIO 3 - Assumes all recovery is by 'RDF' (based on total recovery capacity)																					
Total MSW and C&I residue sent to hazardous landfill	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000	0.000
SCENARIO 4 - Assumes all recovery is by 'treatment' (based on total recovery capacity)																					
Total MSW and C&I residue sent to hazardous landfill	0.007	0.008	0.008	0.009	0.010	0.010	0.012	0.013	0.015	0.016	0.018	0.018	0.019	0.020	0.020	0.021	0.021	0.021	0.020	0.020	0.020

NOTE: This element of the model is redundant. There is currently no hazardous waste capacity figures to generate a chart of managed waste versus available capacity.

DATA_15: TOTAL HAZARDOUS WASTE RESIDUE FROM RECOVERY AND RECYCLING SENT TO HAZARDOUS LANDFILL (Million Tonnes)

	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Total hazardous waste recycling and recovery residue sent to hazardous landfill	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A

West Sussex

CHART_06

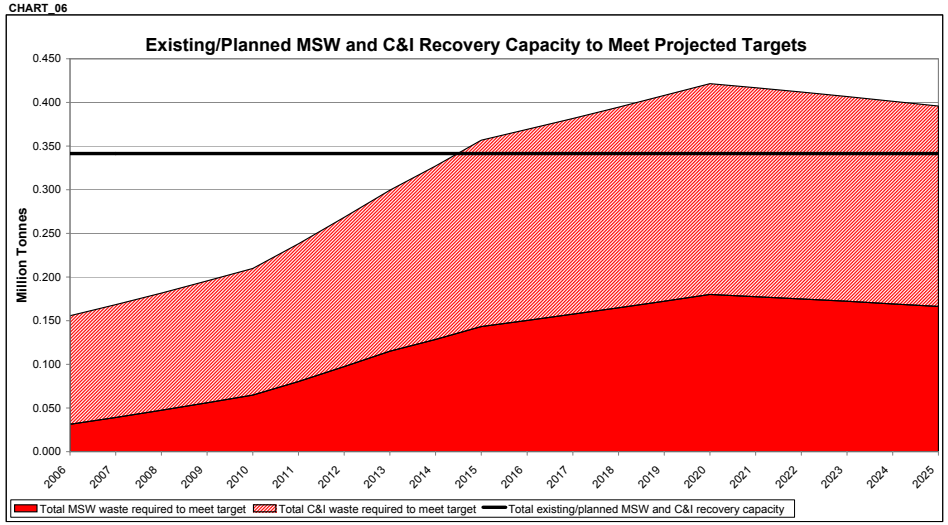


CHART_07

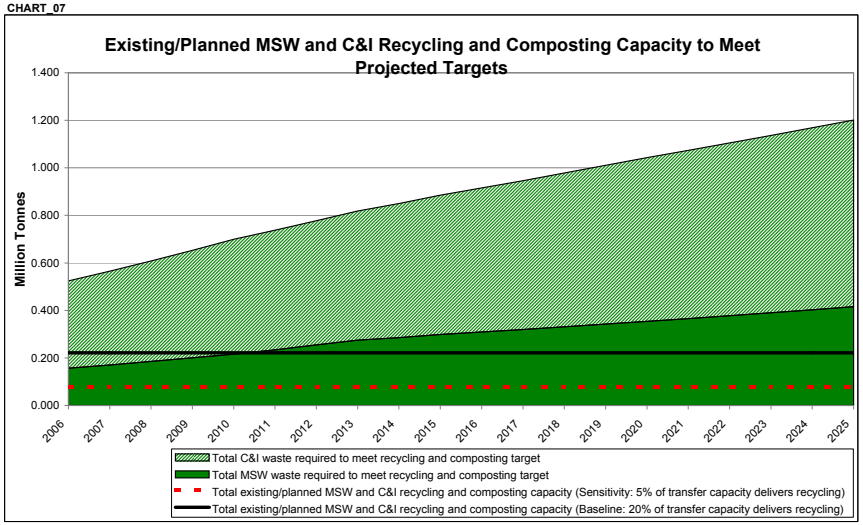
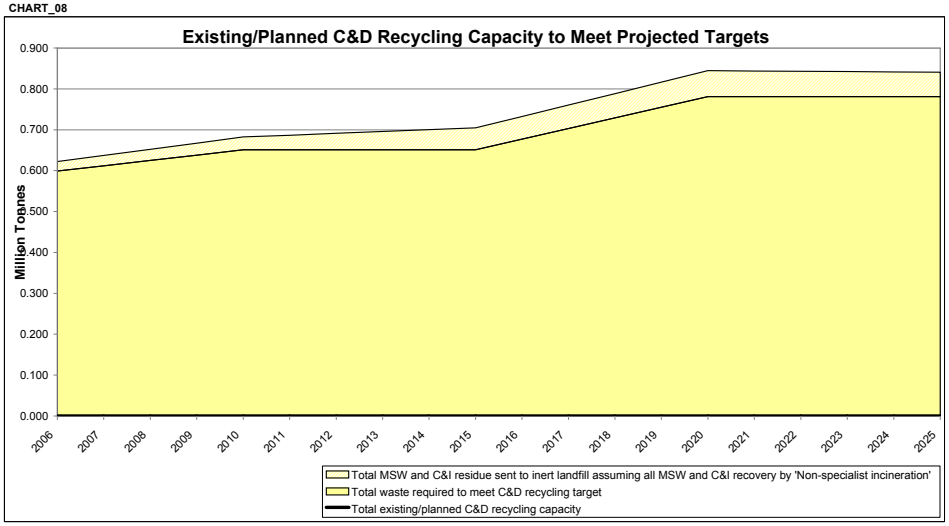


CHART_08



West Sussex

CHART_09

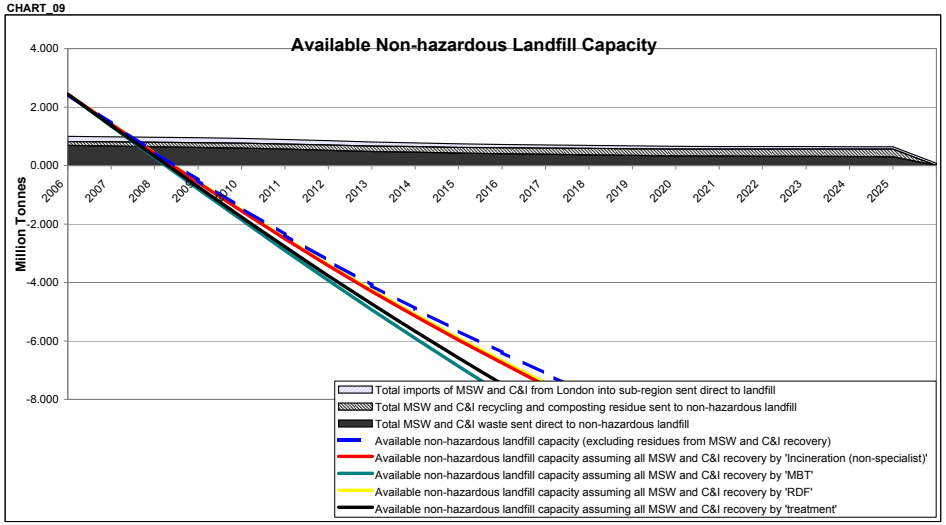
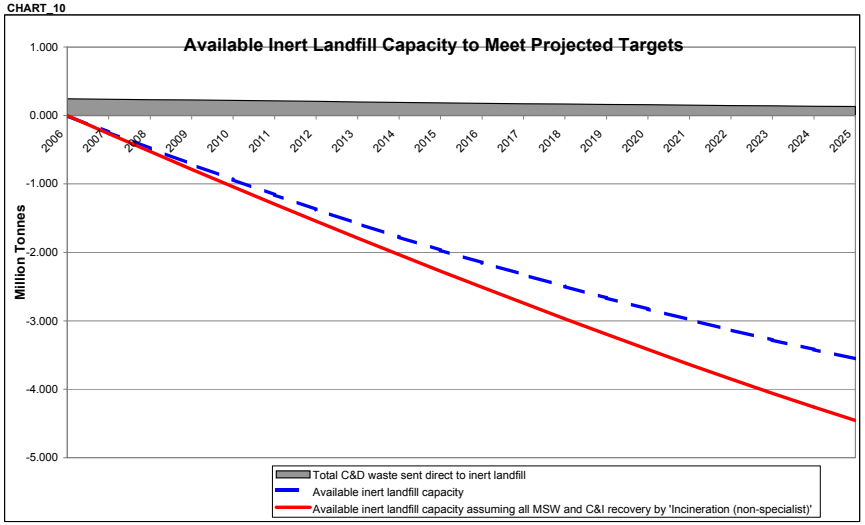


CHART_10



NOTE: The graph assumes that the baseline capacity for non-hazardous landfill has accounted for C&D reuse as a landfill engineering material.