Response to REP 9.64

UKWIN'S D6 COMMENTS ON APPLICANT'S RESPONSE TO UKWIN'S COMMENTS

Proposed Development:

Boston Alternative Energy Facility (BAEF)

Proposed Location:

Nursery Road, Boston, Lincolnshire

Applicant:

Alternative Use Boston Projects Limited

Planning Inspectorate Ref:

EN010095

Registration Identification Ref:

20028052

FEBRUARY 2022



INTRODUCTION

- Because most of the positions taken by the applicant have already been disputed or critiqued by UKWIN (with many of these comments being repeated within Document 9.64 itself which is also known as REP5-009) the focus on this most recent submission is to comment on new points raised by the applicant's new summary document rather than to repeat all of the previous submissions from UKWIN.
- 2. For the avoidance of doubt, UKWIN does not believe that the various points raised to date (either in our written or our oral submissions) have been satisfactorily addressed and we maintain our objections for the reasons previously set out in our submissions.
- 3. For example, UKWIN has already provided a significant body of evidence to dispute the applicant's claims that they have assessed climate change impacts based on a "cautious worst-case scenario", and to dispute the notion that the applicant's subsequent submissions provide a reasonable 'envelope' around this central case assessment.

COMMENTS ON TABLE 1-1 POSITION SUMMARY

Main issue	Applicant comment	UKWIN response
UKWIN notes more reasonable	The Applicant will provide further	UKWIN look forward to reviewing this new
justification should be included for	information at Deadline 6 on this point	information once it has been submitted.
ruling out the use of alternative locations.	with regards to financial and technical considerations.	We have that further consideration will be
locations.	considerations.	We hope that further consideration will be given to alternative solutions (as set out by
		UKWIN), not just alternative locations for the
		same proposed capacity, technology and
		feedstock.

COMMENTS ON THE APPLICANT'S TABLE 1-2 RESPONSE TO REP2-058

Para	Applicant comment	UKWIN response
4	Please note that the operational life of the Facility is identified as being 25 years as	It should be noted that the applicant is seeking permanent planning permission rather than temporary planning permission, e.g. for 25 years. If the applicant only wishes for the impacts of their facility to be considered over a 25-year period then they should propose means by which the plant would be required to be decommissioned after the end of that 25-year period.
	an assumption, which is typical for such facilities	Defra's Energy from Waste Guide to the Debate refers on page 7 and at paragraph 46 to plants typically lasting up to 30 years once they have been commissioned, which would align with the proposed Boston plant operating into the mid-2050's. We note that the Edmonton incinerator in North London began operations in 1971 and is still operational more than 50 years later.
6	The Applicant has not ruled out the prospect that their proposal could act as a barrier to the transition to the circular economy to which they refer.	Requirement 19 of the draft DCO (document reference 2.1(2), REP3-003) does not negate the concerns raised by UKWIN with respect to the ongoing lack of detail regarding the source and composition of the anticipated feedstock. However, Requirement 19 does reinforce the unresolved concerns about the availability of suitable waste for the facility to burn.
11 - 13	The Applicant provided the example of the 2-hour travel time being used as representative for road transport to a port which could service the Facility.	The example provided by the applicant relates to a 2-hour journey to an incinerator, not a 2-hour journey to a port. We do not believe that this a valid comparator.

Para	Applicant comment	UKWIN response
17	See response to ID	The applicant's ID 14 comment does not actually address the issue raised by UKWIN in ID 17.
	14.	
		As noted in UKWIN's Deadline 1 submission, the applicant's methodology failed to include in
		'additional new EW capacity' around 1.8 million tonnes of material that could be treated through a significant proportion of the capacity which came online during 2019 and 2020. These facilities
		were not operating to full capacity in 2019 (and therefore would not have fully diverted material
		from landfill), yet the applicant only accounts for the addition of capacity that comes online from
		2021 onwards.
		The applicant's approach therefore fails to consider the increase in headline capacity which occurred in 2019 and 2020 but which was not fully reflected in the amount diverted from landfill
		in 2019 due to the facilities not being fully online throughout that period.
		in 2010 add to the radinated flet being raily offinite amoughtout that polical
		This is a fundamental methodological failing that the applicant has yet to fix.
19	The Applicant	In line with the comments on Para 17, the issue is not maintenance downtime, the issue is that
	recognises that not	there is a 1.8 million tonne per annum gap in the applicant's figures due to the applicant's use of
	all facilities run at 100% capacity due to	a flawed methodology which fails to take us from the base year to the present.
	maintenance down-	There remains a significant quantity of operational capacity which the applicant's methodology
	time so has factored	missed from its calculations because that capacity came online between the start of 2019 and
	this based on the	the end of December 2020 (the basis for the 2021 Tolvik report).
	reported throughput	
	data in the Tolvik	Paragraphs 17-19 of UKWIN's Deadline 1 submission provided a means of calculating this
	EfW Statistics report published in 2021, as	discrepancy where we came to a 'missing capacity' figure of 1,821ktpa. The applicant has not
	noted in the	offered any meaningful criticism of UKWIN's methodology, but simply ignores this issue.
	Addendum to Fuel	To provide greater transparency we recalculated these figures using a more sophisticated
	Availability and	approach that looks at the facilities that the Tolvik reports for 2019 and 2020 list as having come
	Waste Hierarchy	online during 2019 or 2020, and which were therefore not properly discounted in the applicant's

Para Applicant comment Assessment (document reference 9.5, REP1-018).

UKWIN response

figures. We then compared the headline capacities of these plants against the quantity of waste incinerated at those plants in 2019, to show the gap between what would have been diverted from landfill by those plants in 2019 and how much those plants could be assumed to divert from landfill in the future.

FIGURE 1. INCINERATION CAPACITY MISSING FROM APPLICANT'S CAPACITY ANALYSIS (ASSUMING 100% UTILISATION; FIGURES IN KTPA)

Facility	Headline Capacity	Included capacity	Missing capacity	Year operational	
Ferrybridge Multifuel 2	675	129	546	2019	
Beddington	303	279	24	2019	
Dunbar	300	251	49	2019	
Parc Adfer	200	58	142	2019	
Millerhill	190	142	48	2019	
Glasgow	150	83	67	2019	
Kemsley	550	0	550	2020	
Severn Road RRC	350	0	350	2020	
Leveneat	180	20	160	2020	
Full Circle	120	34	86	2020	
Other EfWs in Commission	Other EfWs in Commissioning but not achieved Takeover in 2019				
TOTAL MISSING CAPACITY			1,817		

As figure 1 shows, this alternative analysis comes to an almost identical conclusion, which is that around 1.8 million tonnes of incineration capacity is missing from the applicant's Table 4-1 figure for 'Additional new EfW (construction & commissioning phase) capacity'. The applicant's 4,255 ktpa figure ought to be increased to around 6,072,000 tpa.

As Figure 2 (below) shows, even if the headline capacities were reduced to 90% utilisation (which we think is unnecessary as some of these plants may exceed their headline capacity), there would still be around 1.5 mtpa of incineration capacity missing from the applicant's analysis.

Para Applicant comment

UKWIN response

FIGURE 2. INCINERATION CAPACITY MISSING FROM APPLICANT'S CAPACITY ANALYSIS (ASSUMING 90% UTILISATION; FIGURES IN KTPA)

Facility	Headline Capacity	Included capacity	Missing capacity	Year operational	
Ferrybridge Multifuel 2	607.5	129	478.5	2019	
Beddington	272.7	279	-6.3	2019	
Dunbar	270	251	19	2019	
Parc Adfer	180	58	122	2019	
Millerhill	171	142	29	2019	
Glasgow	135	83	52	2019	
Kemsley	495	0	495	2020	
Severn Road RRC	315	0	315	2020	
Leveneat	162	20	142	2020	
Full Circle	108	34	74	2020	
Other EfWs in Commission	-205				
TOTAL MISSING CAPACITY	TOTAL MISSING CAPACITY 1,515				

As such, based on 90% utilisation, the applicant's Table 4-1 figure of 3,830 ktpa should be corrected to be 5,345,000 tpa.

The failings highlighted by UKWIN and ignored by the applicant render meaningless the applicant's conclusions regarding the need for their proposed additional 1.2 million tonnes of incineration capacity.

Instead of defending their historic numbers, arrived at through a flawed methodology, the applicant should update their assessment to take account of all additional new EfW capacity that has emerged since 2019 (as well as taking account of future increases in C&I recycling, as UKWIN noted elsewhere).

Para	Applicant comment	UKWIN response
		In relation to capacity missing from the applicant's assessments, we also note that on 1st
		February 2022 the Government updated their list of incineration projects which are under
		construction. This has revealed the following capacity which is not included in Document 9.5
		Table A (11 UK EfW Facilities in Construction or Commissioning Phase) but which ought now to be added:
		 395,000 tpa of headline capacity at Enfinium Energy Limited's Kelvin Energy Recovery Facility (PINS ref APP/G4620/W/18/3216591)
		 180,000 tpa of headline capacity at Doveryard Limited's Oldhall Energy Recovery Facility (North Ayrshire Council planning ref 19/00539/PPM)
		This amounts to 575,000 additional tonnes of headline capacity. If this is added to the 1,817,000
		tpa of missing capacity the result is a figure of 2,392,000 tpa of missing capacity.
		To understand the impacts of these missing figures, it is useful to consider them within the context of taking account of improvements in C&I recycling rates. The applicant assumed that, in their catchment, higher household (HH) recycling rates would result in 5,147ktpa less residual waste arising.
		To determine how much this would mean if the same sort of improvements were made to C&I recycling rates we can assume, as per UKWIN's Deadline 2 submission from October 2021, that HH waste represents around 45% of the total residual waste stream and that C&I represents the other 55%.
		The additional impact of equivalent improvements in C&I recycling could therefore be calculated by multiplying the HH recycling figure of $5,147$ ktpa by $0.55/0.45$ (i.e. 1.222). This means an equivalent tonnage impact would be $6,291$ ktpa $(5,147 \times 0.55/0.45)$. For sensitivity, we have also calculated the impact at 33% and 50% of this value, accounting for the potential impact of a lower level of improvement in C&I recycling. The results are overleaf:

Para Applicant comment	UKWIN response				
	FIGURE 3. IMPACT ON CATCHMENT CONCLUSIONS FOR REMAINING AN ACCOUNT OF MISSING ADDITIONAL EFW CAPACITY AND INCREASE IN C& TO HOUSEHOLD INCREASES (ASSUMING 90% UTILISATION RATE FO	I RECYCL	ING RA	TES EQ	UIVELANT
	Description	33%	50%	100%	Source
	Landfilled combustible wastes	10,437	10,437	10,437	Applicant
	RDF exported	2,450	2,450	2,450	Applicant
	Available fuel	12,887	12,887	12,887	Applicant
	Additional new EfW (construction & commissioning phase) capacity	4,255	4,255	4,255	Applicant
	Missing additional new EfW capacity	2,392	2,392	2,392	UKWIN
	Fuel demand of additional EfW (construction & commissioning)	3,830	3,830	3,830	Applicant
	Fuel demand of missing additional EfW (construction & commissioning)	2,153	2,153	2,153	UKWIN
	Remaining available fuel (after under construction EfW operational)	6,904	6,904	6,904	Derived
	Higher recycling rates reducing residual waste (HH)	5,147	5,147	5,147	Applicant
	Higher recycling rates reducing residual waste (C&I)	2,076	3,145	6,291	Derived
	Remaining available fuel (after new EfW operational and higher recycling				
	rates met)	-319	-1,388	-4,534	Derived
	This demonstrates that even when taking account of an improved are just 33% of the anticipated improved level for household waste more than 300ktpa, meaning that the Boston facility could be exa overcapacity, let alone contributing to regional or local overca recycling could result in millions of tonnes of incineration overcapacity.	e this re cerbatir pacities	sults in ng natio	overd onal in	apacity of cineration
	 These estimates are conservative in several respects, e.g.: They take account only of incineration capacity curr operational, and do not include consented capacity which have A 90% utilization rate is assumed, but incinerators are perm 	as yet to	enter	constr	ruction.

Para	Applicant comment	UKWIN response
		 No account is taken for how it can take more than one tonne of waste to produce a tonne of RDF feedstock. Some estimates suggest that around 1.33 tonnes of waste is required to produce 1 tonne of RDF (due to dewatering), and many of the UK's largest incinerators are designed to accept RDF. No account is taken for how some of the fuel could be diverted to non-incineration uses, such as to produce SRF for cement kilns.
		Figure 3 generally follows the approach and values from the applicant's Table 4-1 Summary of UK Fuel Availability for the Proposed Facility correcting an error made by the applicant in the middle row which referred to 'Remaining available fuel (after consented EfW operational)' when the figure was actually the remaining available fuel based on the capacity <i>under construction</i> becoming available (based on 90% utilisation).
21 - 22	The Applicant has not included a detailed breakdown of the element of	To consider historic C&I going to landfill as potential feedstock without taking any account whatsoever of the prospect of some of this being diverted into recycling in line with Government ambitions simply does not provide a solid basis for demonstrating need.
	Commercial and Industrial (C&I) waste being recycled as	If the applicant's position is that there is no meaningful way to estimate future C&I residual waste arisings then this undermines their whole assessment which relies on such estimates.
	robust data is not, at this stage in the project's evolution, available to support	The applicant has not provided a meaningful explanation setting out why they could not estimate a number of potential C&I recycling scenarios and show how these would impact on their need assessment.
	this.	Similarly, the applicant has not explained why they could not simply exclude C&I altogether on the basis that there is too much uncertainty as to how much residual C&I waste would arise. Instead, the applicant appears to have adopted an approach which results in the likely overstatement of the residual C&I waste that would be available throughout the operational lifetime of the proposed Boston incinerator.

Para	Applicant comment	UKWIN response
29 -	The Applicant has	The applicant has not shown why they would not be able to apply the methodology to several
31	used Defra's most	reasonable assumptions for future improvements in C&I recycling.
	recently published	
	waste data.	If the applicant truly has so little insight into the feedstock that they intend to be relying upon
	Recycling rates for	then it raises broader questions about the reliability of their need assessment and IROPI
	C&I waste are not	arguments.
	published by Defra	
	(see response	
	above) so we are	
	unable to apply the same methodology to	
	the portion of C&I	
	waste.	
36	The review	The applicant fails to address UKWIN's first point that: "By enlarging the waste catchment to
	undertaken in	include such a wide area the Applicant may be underestimating the extent to which they would
	accordance with NPS	source feedstock from Waste Authorities located nearer the plant, thus underestimating the
	EN-3 follows the	adverse impact that the facility would have on recycling rates at those nearer Authorities".
	approach adopted by	
	the application for the	The applicant has further failed to address how the MF2 assessment from 2014 does not set the
	now consented MF2	precedent that the applicant has claimed it set with respect to allowing overly broad waste
	facility, also a	catchments that extend well beyond neighbouring regions.
	merchant facility,	
	where the potential	Circumstances have in any case changed since 2014, e.g. the significant increase in
	catchment area	incineration capacity which increases the likelihood of overcapacity, the introduction of the 65%
	which extended to	recycling target, and the wording adopted by the Government in EN-3 (2021) and associated
	the North of England,	supporting Government statements regarding the intended policy direction being to move away
	with fuel transported	from incineration and towards recycling and the circular economy.
	to site by train	

Para	Applicant comment	UKWIN response
36	Notwithstanding the principle of net self-	This is not about accepting non-local waste; it is about local waste being exported to a distant facility when it might otherwise be treated more locally in line with the proximity principle.
	sufficiency adopted	lability when it might otherwise be treated more locally in line with the proximity principle.
	by waste local plans,	A council is unlikely to achieve net self-sufficiency if a large proportion of their waste (and their
	'There is nothing in the legislation or the	neighbours' waste) is exported, as demand would diminish, eliminating the economies of scale and of density necessary to make domestic infrastructure financially viable.
	proximity principle	
	that says accepting waste from another council, city or region is a bad thing and	Despite the applicant's assumptions, it is entirely foreseeable that some areas and some ports would be disproportionately used as the source of feedstock for the Boston facility rather than the impact being spread evenly across all catchment areas.
	indeed in many cases it may be the	Given the 1.2 mtpa capacity of the proposed Boston plant, which could require 1.6 million tonnes of waste to produce, this impact could be significant giving rise to long-lasting adverse
	best economic and environmental	impacts on an area's ability to reach their goal of net self-sufficiency in line with the proximity principle.
	solution and/or be the	
	outcome most consistent with the	The notion that making use of waste treatment facilities located in a neighbouring local authority (which is in closer proximity to waste arising) being potentially preferrable to treating that waste
	proximity principle'.	at a more distant facility within the boundaries of the originating local authority is a far cry from saying that waste ought to travel hours to a port and then all the way to a facility across the country. To pretend that the two concepts are similar makes a mockery of the proximity principle.
		It should be noted that for each of the ports listed as potential sources of 100,000 tonnes of RDF there are already between 145,000 tonnes of existing capacity (Belfast) to nearly 5 million
		tonnes of existing capacity (Ridham, and Sheerness) within a 2-hour isochrone. UKWIN provides a list of key existing EfW facilities located within a 2-hour isochrone of the 12 proposed ports in Annex A, at the end of this document.

Para	Applicant comment	UKWIN response
		It is obvious that, for waste originating towards the edge of the applicant's 2-hour isochrone,
		there will be facilities located more than 2-hours from the port which are closer to the source of
		the waste, and so a comprehensive assessment would need to look at all capacity within a 4-
		hour drive of the ports names by the applicant - which in effect includes the entirety of the UK.
50 -	The proposed	The applicant does not appear to address the majority of the points raised by UKWIN, nor to
60	development seeks	correct the errors and omissions identified by UKWIN.
	to source refuse	
	derived fuel from a	
	much wider area than	
	the immediate area	
	from which the	
	Facility is to be	
	located	
61 -	The Facility is	The applicant appears to have failed to identify any distinction between the circumstances
62	proposed to be an	regarding R1 that were at play for Wheelebrator Kemsley North and the circumstances that are
	'R1' plant and would	at play for the Boston proposal.
	therefore constitute	In both space the facility did not accome D4 status from the Environment Assumpt and yet the
	recovery. The	In both cases the facility did not secure R1 status from the Environment Agency and yet the
	recovery efficiency determination would	applicants in both cases ask the Examining Authority to treat the facility as 'Other Recovery' in
		the waste hierarchy.
	be provided in detail as part of the	As such, there appears to be no basis for the Examining Authority not to come to a similar
	evidence to support	conclusion with respect to the Boston proposal, which is that they "cannot with a high level of
	the Environmental	confidence assume that either project within the Proposed Development would achieve R1
	Permit application for	status".
	the Facility which is	
	being progressed	
	with the Environment	
	Agency.	

COMMENTS ON THE APPLICANT'S TABLE 1-2 RESPONSE TO REP2-057

Para	Applicant comment	UKWIN response
3 - 7	the additional analysis set out in the document 'Climate Change – Further Greenhouse Gas Emissions Analysis and Consideration of Waste Composition Scenarios' (document reference 9.6, REP1-019) investigated the effects of different carbon and fossil carbon contents of the RDF processed at the proposed Facility and in landfill waste treatment options It is acknowledged that there is potential that the calorific value will affect power outputs.	As set out detail in UKWIN's Good Practice Guidance for Assessing the GHG Impacts of Waste Incineration, the impacts of waste management are tied to the composition of the waste, and so to look at each impact in isolation fails to show how changing key variables for the composition impacts on the various different outputs for both incineration and landfill, such as electricity generation, CO ₂ generation, and methane generation. The applicant has continued to fail to address the fact that it is not internally consistent to have changing assumptions for the waste composition without considering how those changes then impact on electricity generation and the impacts of how waste is treated in landfill. Instead, the applicant is looking at individual elements without showing the impact on the overall conclusions. The applicant cites their own work which has already been shown to be
8-10	This is a misrepresentation of the approach undertaken in the document 'Climate Change – Further Greenhouse Gas Emissions Analysis and Consideration of Waste Composition Scenarios' (document reference 9.6, REP1-019)	flawed and deficient as if those flawed reports addressed UKWIN's criticisms. The statement which the applicant is portraying as a misrepresentation of the approach undertaken by the applicant was a direct quote from page 2 of the applicant's Document 9.6. As far as we are aware, the applicant has not withdrawn or amended that document. What the applicant fails to respond to is UKWIN's request for them to assess the impact of the changes in composition on how the material would behave in landfill. As the applicant is comparing incineration with landfill, to constitute a fair comparison they would need to account for how changes in composition would impact on the overall net emissions from incineration and the overall net emissions from landfill. As pointed out by UKWIN (and not disputed by the applicant) the applicant's submissions to date have done neither.

Para	Applicant comment	UKWIN response
10	Section 2.4 of the document considers emissions from landfill, whereby a degradable (sic)	The applicant has assumed a fixed sequestration rate of 50% rather than considering how changes in composition to remove food waste could increase the sequestration rate in line with what UKWIN has set out in its Good Practice Guidance for Assessing the GHG Impacts of Waste
	This analysis therefore considered the impact of changes to waste	Incineration.
	compositions, in terms of fossil and carbon contents, to emissions from the proposed Facility, and similar scenarios for landfill.	Furthermore, the applicant has not set out the impact of biogenic carbon sequestration from either converting the material to RDF or using a dedicated aerobic composting process on the sequestration rate despite this potentially having a significant impact on reducing methane emissions from landfill.
11	Please also refer to the response to paragraph 7 which discusses the electricity generation offset	The applicant's response to paragraph 7 does not discuss the electricity generation offset (i.e. the carbon intensity of any electricity displaced), only the amount of electricity generated/exported, and so UKWIN's concern remains unaddressed.
12 - 14	The approach set out in in the document 'Climate Change – Further Greenhouse Gas Emissions Analysis and Consideration of Waste Composition Scenarios' (document	The approach adopted by the applicant does not provide sensitivity analysis for key non-composition assumptions, nor does it show how some of the assumptions which were made by the applicant are consistent with current and future RDF composition.
	reference 9.6, REP1-019) does consider the impact of changing composition in terms of carbon and fossil carbon on the effect to GHG emissions. This analysis also considered the effect on changing carbon and fossil carbon composition	The applicant consider various elements in isolation but fails to adequately 'bring it all together' into an assessment that shows the impact of changing waste composition (and changes in other key variables) on their overall claimed climate change credentials.
	of emissions if the waste was treated via landfill.	

15 -...The 20 – 30% carbon 21 content figures were used to encompass a range of scenarios for future RDF feedstock, to provide an indication of the lower and upper end levels of GHG emissions that could arise from the proposed Facility...It is noted that RDF feedstocks are likely to have a higher carbon content than some other waste streams...

The applicant has not shown that any of the figures they are relying on to justify the 20-30% range relate to RDF as distinct from unprocessed municipal solid waste (MSW) streams. This is important because RDF, as UKWIN noted in paragraph 21, is made up of de-watered waste thereby concentrating the carbon relative to unprocessed MSW.

In December 2021 the applicant for the Reading Quarry Energy Recovery Centre, which is also proposed to treat RDF, assumed a carbon content of 35% for their RDF feedstock for their core scenario, and this was stated by the Reading applicant's consultants to be an "Estimate based on compositional analysis of similar RDF feedstock".

EXTRACT FROM 'GREENHOUSE GAS ASSESSMENT: READING QUARRY ENERGY RECOVERY CENTRE', DECEMBER 2021 BY AIR QUALITY CONSULTANTS

- A1.1 GHG emissions from the ERC are linked to the carbon content of the input RDF fuel. The GHG emissions from the ERC have therefore been calculated based on the designed throughput and net calorific value (NCV) of the RDF.
- A1.2 Key parameters assumed in the calculation of the GHG emissions from the ERC are summarised in Table A1.1.

Table A1.1: Input Parameters for ERC GHG Emissions Calculation

	Values			
Parameter	Core Scenario	Sensitivity Test	Unit	Source/Reference
RDF Throughput	108,000	150,000	tpa	Estimated from NCV of RDF
RDF NCV	14	8	MJ/kg	From compositional analysis of
RDF Total Carbon Content	35	20	%mass	RDF feedstock

		Given that the 35% figure post-dates the 2006 source cited by the Boston applicant, and given that it relates specifically to RDF rather than unprocessed MSW, we would consider a 35% carbon content figure to be a more reasonable starting point for the central assumptions within the Boston applicant's GHG assessment. Based on a 35% carbon content, burning 1 tonne of waste would result in the production of 1.283 tonnes of CO_2 ($0.35 \times 3.6667 = 1.283$).
27	Should a 55% fossil carbon content be assumed, it would still represent a saving of 60,000 – 120,000 tonnes of carbon dioxide equivalent (CO2e) when compared to sending the waste to landfill, depending on the overall carbon content of the waste (ranging from 20 – 30%).	UKWIN disagrees with the applicant's suggested 60-120ktpa saving range for the reasons previously stated, e.g. this range fails to take into account: • the reduction in methane generation of RDF compared to unprocessed MSW; • the difference in biogenic CO2 emissions between incineration and landfill, with landfill acting as a partial biogenic carbon sink; • decarbonization of the electricity supply; • the potential for waste to otherwise be sent to biostabilisation; and • how incineration can divert waste from recycling and not just from landfill. When all of these factors (which are set out in more detail in UKWIN's Good Practice Guidance for Assessing the GHG Impacts of Waste Incineration) are taken into account there would either be no meaningful GHG savings from the Boston incinerator, and instead there would be the potential for a significant adverse GHG impact.
28- 39	This comment is a misunderstanding of the figures presented in Table 3 of the report, which were obtained from Table 21-25 of Chapter 21 of the ES (document reference: Chapter 21 Climate	Rather than identifying a misunderstanding on UKWIN's part, the applicant's response confirms UKWIN's critique, which is that the applicant fails to show the impact of the various sensitivities on the overall climate change impacts of the proposed facility.

	Change document reference: 6.2.21, APP-059). These scenarios are not intended to correlate with the waste composition assumptions used elsewhere in the document 'Climate Change – Further Greenhouse Gas Emissions Analysis and Consideration of Waste Composition Scenarios' (document reference 9.6, REP1-019) It is noted that not all of the scenarios are comparable no attempt was made to try and predict RDF compositions in the future	
32	The degradable decomposable organic carbon (DDOC) content of 50% figure was adopted in accordance with Defra's Energy from	If a 50% figure is reasonable for MSW, then a figure of less than 50% would be reasonable for RDF, as RDF has a lower level of biodegradability than unprocessed MSW.

	Waste – A Guide to the Debate, which is considered to be a conservative figure.	
33 - 36	The Applicant recognises that there are many waste treatment processes that will assist in stabilising wastes prior to landfill that can potentially contribute to reducing the breakdown of available carbon in landfill that leads to	Whilst UKWIN welcomes the applicant's belated recognition of this fact, this does not address the shortcoming arising from the fact that such considerations are not reflected in either the landfill options considered in the applicant's climate change assessments or in the applicant's IROPI assessment of alternative solutions.
	methane emissions	

COMMENTS ON TABLE 1-3 RESPONSE TO REP3-038

Para	Applicant comment	UKWIN response
7-9	The management of residual waste is one of the key objectives for the Facility; however, as clearly stated within EN-116 and EN-3, Energy	We note that the applicant has not maintained in their response that electricity generation is a primary purpose of their plant, and so they appear to be confirming UKWIN's criticism that their IROPI assessment of alternatives should not have been premised on that basis.
	from Waste forms an important role in managing security of supply of electricity	This is not surprising, as claiming that energy is secondary formed part of the applicant's response to our criticism of the high carbon intensity of the electricity generated, which they provided in paragraph 3.1.7 of document 9.5.5.
		However, it does mean that the applicant's Assessment of Alternative Solutions remains flawed for the reasons set out by UKWIN.
10-	the approach to alternative	As already set out by UKWIN, the applicant has failed to provide alternatives
13	solutions should provide alternatives	that meet the original objective of the proposal because the applicant has
	that meet the original objective of the	adopted an overly broad definition of the 'original objectives' and an overly
	proposal	narrow definition of 'alternative solutions'.
11 - 28	Within the Defra, NE, Welsh Government and Natural Resources Wales 2021 guidance19 (Habitats regulations assessment: protecting a European site), "nuclear instead of offshore wind energy" is quoted as an example of an alternative solution which may not meet the original objective of the proposal. Therefore, alternative waste management options have not been considered	It is easy to discern why wind is not comparable to nuclear in terms of an assessment of alternative solutions. However, when it comes to considering a similar incineration facility located at a different port, or a suite of existing or potential recycling, re-use and/or incineration facilities located throughout the UK, this seems to be the very definition of a feasible "alternative wayof achieving the objectives of the project or plan that avoid adverse impacts on the integrity of the Natura 2000 site". The applicant has provided no logical reason why these alternatives are not considered, other than by reference to their choice to adopt an overly broad definition of the objective of the project.

	a series of smaller facilities has not been considered as an alternative option based on the objectives of the project alternative waste treatment options were not considered as alternative options based on the objectives of the project	The 'Department for Environment, Food and Rural Affairs (Defra), Natural England, Welsh Government and natural Resources Wales. 2021. Habitats regulations assessments: protecting a European site' guidance cited at footnote 19 of the applicant's response does in fact allow for consideration of different scale, location, size, design and method. The guidance clearly states that: "3.1 Test 1: Consider alternative solutions To allow a derogation you must decide that there's no alternative solution that would be less damaging to the site. You should work with the proposer and consider whether any alternative solutions are available. This might include considering whether the proposal could:
14	The Applicant has provided a note on the Lightweight Aggregate Facility at Deadline 4 to demonstrate that	 happen at a different location use different routes across a site change its scale, size, design, method or timing" Thus, it appears that the applicant's approach goes against the very guidance that they have cited. The applicant's Deadline 4 note was clearly inadequate to satisfy the Environment Agency as the EA raised a number of serious concerns in their Deadline 5 submission. As far as we are aware there remains serious issues
	there are similar plants operating under an Environmental Permit in the UK (document reference 9.53,	with permitting the Lightweight Aggregates Facility, and the applicant's failure to anticipate that the EA would find the applicant's note inadequate raises concerns about the Applicant's ability to satisfy the regulatory requirements

	REP4-018). Therefore, it is not anticipated there will be an issue permitting this facility.	necessary to obtain an Environmental Permit for the Lightweight Aggregates Facility.
14	As the Facility is designed to meet a national need for waste management, it is key to have an objective to develop on land suitably allocated for this type of development.	The applicant has not provided any evidence to date to demonstrate that there are no other sites allocated for waste management purposes at or near to other ports within the UK. Furthermore, a facility could meet local planning policy without being an allocated site if it met the relevant exception criteria.
18 - 21	The Facility is designed to deliver approximately 80 megawatts	UKWIN's comments were focussed on the applicant's assessment of alternative solutions, not the precise details of the proposed facility. There is surely a reason why the Methodological Guidance for the Habitats Regulations refers to looking for an "alternative waysof achieving the objectives of the project or plan" rather than 'an alternative location for precisely the same proposal'. As noted with respect to paragraphs 11 – 28, the Guidance acknowledges that it is appropriate to consider a change to the scale and size of the proposed option so as to reduce adverse impacts. The applicant has not provided any technical reason why they could not reduce the electrical output of the proposed facility and the association tonnage input requirements. That is to say, they have not provided any evidence that the scale
		and size of the operation could not be reduced, and they have not provided any evidence that reducing the scale and size would not reduce the adverse impacts.
22	The grid connection point at the Facility facilitates the net export of 80MW to the National Grid. Therefore, the Facility fully utilises the electricity export at this location,	The applicant seems to avoid responding to the concern raised by UKWIN - which is that the same contribution to the National Grid capacity could be achieved through two or more smaller incineration facilities, and/or through other forms of electricity generation.

	providing a national solution to waste management. Having two smaller facilities is not considered to meet the project objectives as discussed in	It is not clear why two facilities of half the scale, for example, would not cumulatively be able to produce an equivalent level of energy and treat an equivalent quantity of waste. Presumably the applicant is not actually arguing this could not be the case. The applicant's statements therefore appear to be of
	rows 10 and 11.	no value whatsoever in ruling out feasible alternative solutions.
24 - 25	The efficiency of other EfW plants is not guaranteed	The efficiency of the proposed EfW plant is not guaranteed, but the degree of confidence to be afforded to the efficiencies reported for other facilities is higher because they have an operational track record. Facilities with CHP generally have a higher efficiency than electricity-only plants, and whilst the applicant pledges to make the Boston facility 'CHP-ready' this is far less certain than existing plants which are already connected to district heating schemes.
24 -	The efficiency of other EfWmay	UKWIN is confused by the applicant's reference to emissions standards for non-
25	vary due toemissions standards	EU countries as RDF export is generally to countries which are in the EU or
	(such as for non-EU countries).	follow EU emissions standards.

COMMENTS ON TABLE 1-3 RESPONSE TO REP3-037

Para	Applicant comment	UKWIN response
1.3.3	Section 3.4 of NPS EN-1 'The role of renewable electricity generation' confirms at 3.4.3 'Energy from Waste' 'The energy produced from the biomass fraction of waste is renewable'	At Paragraph 1.3.3 UKWIN stated that the applicant is incorrect in their continued characterisation of the electricity generated as 'renewable' (i.e. 'wholly renewable') for the reasons set out in UKWIN's Written Representation (REP1-068) paragraphs 123-133. It is unclear whether or nor the applicant has accepted UKWIN's point but they do not actually challenge it.
		The status of the energy generated from the biomass fraction of the waste is not the whole story. As the applicant is also proposing to incinerate non-biomass waste, UKWIN is correct that the energy produced from the non-biomass fraction of the waste is not renewable. As such, the electricity is partially-renewable at best, and characterising it as simply 'renewable' is incorrect.
1.3.3	The key socio-economic benefits of the Proposed Development are set out in ES Chapter 20 (Socio- Economics) (document reference 6.2.20, APP-058). This makes no reference to taxable revenue.	The applicant is the one who claimed that the proposed commercial operation would result in "sizeable taxable revenue" in their comments on Kevin Blanchard's representation. If they wish to resile from that position now that we have shown it to be flawed, then we ask that they make this explicit.
1.3.3	the Proposed Development is capable of generating 640,000MW of energy each year. This will help to add to increase the proportion of energy generated from renewable/partially renewable	As noted above, the energy is 'partially renewable' at best, and not 'renewable'. Replacing 'traditional fossil fuel' with incinerating plastic, which is also a fossil fuel, is hardly a step forward.

	sources both locally and nationally, thereby helping to reduce dependence on traditional fossil fuel energy sources and assisting with the transition to net-zero	Indeed, as the plant might be displacing non-fossil fuel sources such as 100% renewable energy and because the Boston plant would be likely to have a far lower efficiency than the conventional use of fossil fuels (as using natural gas in CCGT has a typical conversion efficiency of >70% compared to ~25% for incineration) the plant is likely to lock the UK into more carbon-intensive forms of electricity generation
1.5.3	The content within the UKWIN 'Good Practice Guidance' is noted, however	It is not clear in what way the applicant has 'noted' the substance of UKWIN's Guidance. As with all inquiry evidence, UKWIN's Guidance should be assessed on its merits. The document provides copious references and is extremely well sourced, showing examples of the best practice adopted by industry and the GHG impacts of real-world UK incinerators based on information provided by the relevant incinerator operators. While the applicant is free to criticise specific elements of the document, the applicant has not engaged with the content of the Guidance which supports UKWIN's case that the applicant has not followed good industry practice in numerous key respects. The applicant's use of <i>ad hominem</i> arguments lays bare their failure to counter the various important points made by UKWIN about the deficiencies in the applicant's adopted approach to assessing the GHG impacts of their proposal.
1.5.123	The energy produced from the biomass fraction of waste is renewable'Paragraph 2.6.6 to 2.6.7 of the September 2021 draft NPS EN3 states	It is noted that the applicant does not actually dispute the point made by UKWIN, which is that EN-3 (as opposed to its draft successor) does not include any explicit reference to RDF. It is also noted that while the applicant refers to the renewable status of the biomass portion of the energy, they do not actually dispute that the Boston proposal is similar to the Wheelebrator Kemsley North proposal in that "the portion of energy output attributed to non-biomass based waste inputcannot be considered renewable and therefore the plants would be partially renewable at best".

1.5.126	In this analysis document, any
_	biogenic sources of carbon were
1.5.130	discounted from both scenarios as
	they are not net contributions to the
	global system Therefore, the
	biogenic and fossil carbon
	contribution of both waste treatment
	pathways is accounted for in the
	analysis.
	-

As is clear from Table 5 of Document 9.6 (REP1-019), the applicant does in fact take account of biogenic carbon as part of their consideration of methane (CH₄). Indeed, without that landfill would have zero emissions as it is not associated with the release of fossil CO₂.

The applicant ignores the fact that while both landfill and incineration produce biogenic CO₂, some of the biogenic CO₂ is sequestered in landfill but not with incineration, which means that incineration results in the net release of more biogenic CO₂ than landfill. Or, to put it another way, the applicant fails to credit landfill for acting as a partial carbon sink.

As noted by UKWIN in our previous submissions, and as set out in our Good Practice Guidance, it is not methodologically sound to ignore this difference in the release of biogenic CO_2 – if the release of biogenic CO_2 from incineration is carbon neutral, then the avoidance of that release in landfill is a carbon benefit.

This methodological error is significant enough to make the difference between the Boston proposal being considered to be comparable or marginally better than landfill and it being significantly worse.

COMMENTS ON TABLE 1-3 RESPONSE TO REP3-036

Para	Applicant comment	UKWIN response
4-7	The draft NPSs have been	See UKWIN's Deadline 5 submission (REP5-020) paragraphs 1-15.
	published for consultation, and that	
	consultation ended on 29 November	
	2021	
8-10	The purpose of the quote referred to by UKWIN was to express concern in respect of the relevant draft NPS wording; it raises the irrelevance and potential consequences of the EN-3 draft wording, not its importance.	The intended purpose of Mr Marsh making the statement is irrelevant. What is crucial is that Mr. Marsh was right to emphasise the significant consequences of applying the emerging Government policy as it is currently drafted. That is, the implication of Mr. Marsh's analysis is that draft EN-3 as it is currently worded means that a robust case needs to be demonstrated for the proposed Boston project, and we agree with this reading of this policy statement.
9-14	In any event,the Applicant's application (including its need case and Waste Hierarchy Assessment report (document reference 5.8, APP-037)) demonstrates that the Facility would not result in an over capacity of EfW waste treatment	As set out above and in UKWN's previous submissions, UKWIN respectfully disagrees. We maintain the position that the applicant's need case is methodologically flawed and therefore cannot be relied upon to demonstrate that the facility would not result in local and/or national overcapacity.
	capacity of Live waste treatment	Given that the proposed capacity is for 1.2 million tonnes of RDF, it is clear that the proposal would rely on the continued generation of a significant quantity of waste. The feedstock demands are even higher when one considers that it can take around 1.33 tonnes of waste to produce 1 tonne of RDF, meaning the proposed 1.2 million tonnes of RDF capacity could require around 1.6 million tonnes of waste per annum. Over 25 years this would amount to around 40 million tonnes of waste.

ANNEX A: CAPACITY OF EXISTING INCINERATORS LOCATED WITHIN A 2-HOUR ISOCHRONE OF THE 12 PORTS LISTED BY THE APPLICANT

145,000 tonnes within 2 hours of the port at Belfast:

• 145,000 tonnes at Full Circle Generation EfW, 7 Airport Road, Belfast Harbour Estate (10 minute drive)

2,028,000 tonnes within 2 hours of the port at Fleetwood:

- 127,000 tonnes at Bolton Thermal Recovery Facility / "Bolton Incinerator", Raikes Lane, Bolton (1 hour drive)
- 1,100,000 tonnes at Runcorn EFW Facility, Picow Road Farm, Weston Point, Runcorn (1.5 hour drive)
- 175,000 tonnes at "Protos Energy Hub", Protos, Grinsome Road, Ellesmere Port Runcorn (1.5 hour drive)
- 266,000 tonnes at Hooton Park Sustainable Energy Facility, Hooton Park, North Road, Eastham Kirklees (1 hour 40 minute drive)
- 150,000 tonnes as Kirklees Energy from Waste Facility, Vine Street, Huddersfield, Kirklees (1 hour 40 minute drive)
- 210,000 tonnes at Stoke Energy from Waste Facility / "Hanford", Campbell Road, Sideway, Stoke-on-Trent (2 hour drive)

1,347,000 tonnes within 2 hours of the port at Glasgow:

- 150,000 tonnes at Glasgow Recycling and Renewable Energy Centre (GRREC), Next to the Polmadie Recycling Centre, 425 Polmadie Road (25 minute drive)
- 180,000 tonnes at Levenseat Waste Management Site, By Forth, Lanark (1 hour drive)
- 237,000 tonnes at Earls Gate Energy Centre, Earls Road, Grangemouth (1 hour drive)
- 155,000 tonnes at Millerhill Energy Recovery Centre, Former Millerhill Marshalling Yards, Whitehill Mains Road, Millerhill, Dalkeith, Midlothian (1.5 hour drive)
- 120,000 tonnes at DERL, Forties Road, Baldovie Industrial Estate, Angus (2 hour drive)
- 110,000 tonnes at Baldovie EfW CHP Facility, Forties Road, Baldovie Industrial Estate (2 hour drive)
- 325,000 tonnes at Oxwellmains EfW, Dunbar Landfill, Oxwellmains, Dunbar (2 hour drive)
- 180,000 tonnes at Doveryard Limited's Oldhall Energy Recovery Facility, North Ayrshire (45 minute drive)

1,457,000 tonnes within 2 hours of the port at Grangemouth:

- 237,000 tonnes at Earls Gate Energy Centre, Earls Road, Grangemouth (10 minute drive)
- 150,000 tonnes at Glasgow Recycling and Renewable Energy Centre (GRREC), Next to the Polmadie Recycling Centre, 425 Polmadie Road (35 minute drive)
- 180,000 tonnes at Levenseat Waste Management Site, By Forth, Lanark (35 minute drive)
- 155,000 tonnes at Millerhill Energy Recovery Centre, Former Millerhill Marshalling Yards, Whitehill Mains Road, Millerhill, Dalkeith, Midlothian (45 minute drive)
- 120,000 tonnes at DERL, Forties Road, Baldovie Industrial Estate, Angus (1.5 hour drive)
- 110,000 tonnes at Baldovie EfW CHP Facility, Forties Road, Baldovie Industrial Estate (1.5 hour drive)
- 325,000 tonnes at Oxwellmains EfW, Dunbar Landfill, Oxwellmains, Dunbar (1 hour drive)
- 180,000 tonnes at Doveryard Limited's Oldhall Energy Recovery Facility, North Ayrshire (1 hour drive)

380,000 tonnes within 2 hours of the port at Great Yarmouth:

- 295,000 tonnes at Suffolk Energy from Waste Facility, Highways depot opposite Masons Landfill Site, Great Blakenham, Ipswich (1.5 hour drive)
- 85,000 tonnes at Peterborough CC EFW Plant, Fourth Drove, Fengate, Peterborough (2 hour drive)

3,051,000 tonnes within 2 hours of the port at Hartlepool:

- 500,000 tonnes at Wilton 11, Wilton International, Middlesbrough (30 minute drive)
- 450,000 tonnes at Teesside Energy from Waste Plant, Haverton Hill Road, Billingham (20 minute drive)
- 306,000 tonnes at North East Energy Recovery Centre (NEERC), Haverton Hill Road, Billingham, Stockton (20 minute drive)
- 320,000 tonnes at Allerton Waste Recovery Park, Allerton Park Quarry, Knaresborough (1 hour drive)
- 200,000 tonnes at Leeds Recycling and Energy Recovery Facility, Former wholesale market on Pontefract Lane in Cross Green, Leeds (1.5 hour drive)
- 675,000 tonnes at Ferrybridge Multifuel Facility 1 (FM1), near Ferrybridge C power station, Knottingley (1.5 hour drive)
- 675,000 tonnes at Ferrybridge Multifuel Facility 2 (FM2), near Ferrybridge C power station, Knottingley (1.5 hour drive)
- 245,000 tonnes at Sheffield Energy Recovery Facility, Bernard Road, Sheffield (2 hour drive)

3,612,000 tonnes within 2 hours of the port at Hull:

- 250,000 tonnes at Cleveland Street (former ADM Cocoa Plant) Dalton Street (Council Waste Depot Site) connecting to a strip of land alongside The River Hull (5 minute drive)
- 56,000 tonnes at Newlincs Grimsby Incinerator, South Marsh Road, Stallingborough, Grimsby (45 minute drive)
- 190,000 tonnes at Lincolnshire Energy from Waste Facility, Whisby Road, North Hykeham, Lincoln (1.25 hour drive)
- 320,000 tonnes at Allerton Waste Recovery Park, Allerton Park Quarry, Knaresborough (1.5 hour drive)
- 200,000 tonnes at Leeds Recycling and Energy Recovery Facility, Former wholesale market on Pontefract Lane in Cross Green, Leeds (1.25 hour drive)
- 675,000 tonnes at Ferrybridge Multifuel Facility 1 (FM1), near Ferrybridge C power station, Knottingley (1 hour drive)
- 675,000 tonnes at Ferrybridge Multifuel Facility 2 (FM2), near Ferrybridge C power station, Knottingley (1 hour drive)
- 245,000 tonnes at Sheffield Energy Recovery Facility, Bernard Road, Sheffield (2 hour drive)
- 450,000 tonnes at Teesside Energy from Waste Plant, Haverton Hill Road, Billingham (2 hour drive)
- 306,000 tonnes at North East Energy Recovery Centre (NEERC), Haverton Hill Road, Billingham, Stockton (2 hour drive)
- 245,000 tonnes at Sheffield Energy Recovery Facility, Bernard Road, Sheffield (1.25 hour drive)

622,000 tonnes within 2 hours of the port at Montrose:

- 237,000 tonnes at Earls Gate Energy Centre, Earls Road, Grangemouth (2 hour drive)
- 155,000 tonnes at Millerhill Energy Recovery Centre, Former Millerhill Marshalling Yards, Whitehill Mains Road, Millerhill, Dalkeith, Midlothian (2 hour drive)
- 120,000 tonnes at DERL, Forties Road, Baldovie Industrial Estate, Angus (40 minute drive)
- 110,000 tonnes at Baldovie EfW CHP Facility, Forties Road, Baldovie Industrial Estate (40 minute drive)

1,961,000 tonnes within 2 hours of the port at Port Talbot:

- 425,000 tonnes at Trident Park, Cardiff Bay (45 minute drive)
- 190,000 tonnes at Javelin Park, Haresfield (1.5 hours)
- 120,000 tonnes at Land at Showground Road, Bridgwater (1.75 hour drive)
- 500,000 tonnes at Severnside Energy Recovery Centre, Severn Road, Avonmouth (1.25 hour drive)
- 350,000 tonnes at Severn Road ReSource Recovery Centre, Severn Road, Avonmouth, Bristol (1.5 hour drive)

- 156,000 tonnes at Avonmouth Low Carbon Energy Facility, Former Britannia Zinc Site, Kings Weston Lane (1.25 hour drive)
- 220,000 tonnes at Newport Alexandra Dock, Newport (1 hour drive)

4,892,000 tonnes within 2 hours of the port at Ridham:

- 657,000 tonnes at Kemsley Sustainable Energy Plant, DS Smith Paper's site, Kemsley Mill, Sittingbourne (10 minute drive)
- 560,000 tonnes at Allington Integrated Waste Management Facility, 20/20 Business Park, Allington, Maidstone (45 minute drive)
- 785,000 tonnes at Riverside Resource Recovery Facility / "Belvedere", Norman Road, Belvedere (1 hour drive)
- 560,000 tonnes at Edmonton Solid Waste Incinerator, Advent Way, Edmonton (1.5 hour drive)
- 488,000 tonnes at SELCHP, The Kennels Site, Landmann Way, Lewisham (1.25 hour drive)
- 350,000 tonnes at Sutton Waste Management Facility / "Beddington Energy Recovery Facility", Beddington Lane, Sutton (1.5 minute drive)
- 450,000 tonnes at Lakeside Energy from Waste Incinerator, Colnbrook, Slough (1.5 hour drive)
- 480,000 tonnes at Slough Multifuel, 342 Edinburgh Avenue, Slough Trading Estate, Slough (1.5 hour drive)
- 110,000 tonnes at Integra North Energy Recovery Facility / "Basingstoke Incinerator", Whitmarsh Lane, Reading Road, Chineham, Basingstoke (1.75 hour drive)
- 242,000 tonnes at Newhaven Incinerator, North Quay, Newhaven (1.5 hour drive)
- 210,000 tonnes at Portsmouth Incinerator / "Integra South East ERF", Quartremaine Road, Copnor, Portsmouth (2 hour drive)

4,892,000 tonnes within 2 hours of the port at Sheerness:

- 657,000 tonnes at Kemsley Sustainable Energy Plant, DS Smith Paper's site, Kemsley Mill, Sittingbourne (10 minute drive)
- 560,000 tonnes at Allington Integrated Waste Management Facility, 20/20 Business Park, Allington, Maidstone (45 minute drive)
- 785,000 tonnes at Riverside Resource Recovery Facility, Norman Road, Belvedere (1 hour drive)
- 560,000 tonnes at Edmonton Solid Waste Incinerator, Advent Way, Edmonton (1.25 hour drive)
- 488,000 tonnes at SELCHP, The Kennels Site, Landmann Way, Lewisham (1.25 hour drive)
- 350,000 tonnes at Sutton Waste Management Facility / "Beddington Energy Recovery Facility", Beddington Lane, Sutton (1.5 hour drive)
- 450,000 tonnes at Lakeside Energy from Waste Incinerator, Colnbrook, Slough (1.5 hour drive)
- 480,000 tonnes at Slough Multifuel, 342 Edinburgh Avenue, Slough Trading Estate, Slough (1.5 hour drive)

- 110,000 tonnes at Integra North Energy Recovery Facility / "Basingstoke Incinerator", Whitmarsh Lane, Reading Road, Chineham, Basingstoke (1.75 hour drive)
- 242,000 tonnes at Newhaven Incinerator, North Quay, Newhaven (1.75 hour drive)
- 210,000 tonnes at Portsmouth Incinerator / "Integra South East ERF", Quartremaine Road, Copnor, Portsmouth (2 hour drive)

3,967,000 tonnes within 2 hours of the port at Southampton:

- 220,000 tonnes at Marchwood Incinerator / "Integra South West ERF", Oceanic Way, Marchwood Industrial Park, Marchwood, Southampton (20 minute drive)
- 210,000 tonnes at Portsmouth Incinerator / "Integra South East ERF",
 Quartremaine Road, Copnor, Portsmouth (30 minute drive)
- 242,000 tonnes at Newhaven Incinerator, North Quay, Newhaven (2 hour drive)
- 110,000 tonnes at Integra North Energy Recovery Facility / "Basingstoke Incinerator", Whitmarsh Lane, Reading Road, Chineham, Basingstoke (45 minute drive)
- 480,000 tonnes at Slough Multifuel, 342 Edinburgh Avenue, Slough Trading Estate, Slough (1.5 hour drive)
- 450,000 tonnes at Lakeside Energy from Waste Incinerator, Colnbrook, Slough (1.25 hour drive)
- 350,000 tonnes at Sutton Waste Management Facility / "Beddington Energy Recovery Facility", Beddington Lane, Sutton (2 hour drive)
- 560,000 tonnes at Edmonton Solid Waste Incinerator, Advent Way, Edmonton (2 hour drive)
- 785,000 tonnes at Riverside Resource Recovery Facility, Norman Road, Belvedere (2 hour drive)
- 560,000 tonnes at Allington Integrated Waste Management Facility,
 20/20 Business Park, Allington, Maidstone (2 hour drive)