Comments on responses to the ExA's ExQ1

UKWIN'S D3 COMMENTS ON NLGEPL'S RESPONSES TO THE EXA'S EXQ1 (REP2-033)

Proposed Development:

North Lincolnshire Green Energy Park

Proposed Location:

Flixborough Wharf, Flixborough Industrial Estate, North Lincolnshire

Applicant:

North Lincolnshire Green Energy Park Limited

Planning Inspectorate Ref:

EN010116

Registration Identification Ref:

20031828

JANUARY 2023



ExQ1	Applicant's REP2-033	UKWIN Comments
LAGI	Response	Cittin Comments
Section 1 - General and Cross	-topic Questions	
Q1.0.22 Energy generation The ERF as proposed could generate up to 95Mwe. Within Chapter 3 [APP-051] the energy necessary to operate the ERF is specified as a parasitic load of 9.5 MWe. The energy necessary for the other elements of the plant are set out in MWh or MWhe per annum or no figure is provided. (i) It would be helpful to understand the quantity of energy that will be required by the different elements of the project relative to the output of the ERF. Please provide a table setting out the breakdown of this information.	(i) A table is provided below, based on ES Chapter 3 [APP-051] and the values that the Applicant has committed to. These loads are unlikely to be coincident, and assume a worst-case value (i.e the electrolyser operating at peak load).	that the plant would only have net generation of around 34.2 MW. This means that the vast majority of the power that would be generated by the plant could be used on-site rather than being exported to the grid. The Applicant's figure does not represent 'worst-case'

Section 6 - Climate Change Q6.0.1 Committee on Climate (i) No.	the progress report of	
Q6.0.1 Committee on Climate (i) No,	. •	
Change Reference is made in [APP- 054] Chapter 6 Climate, to the Committee on Climate Change Report (2020). A further progress report was presented to Parliament on 25 June compore	CC reinforces the key sions with respect to in its 2020 report, all amongst these are ed to divert waste, and rticular biodegradable nents of waste, from and to raise the waste ng rate.	The Applicant's reference to the CCC's position on the need to divert biodegradable waste from landfill is misleading because it fails to note that the CCC subsequently made clear in their 'Policies for the Sixth Carbon Budget and Net Zero' published in December 2020 that diverting biodegradable waste from landfill "should be achieved via prevention, reuse and recycling, not via more energy-from-waste" (emphasis added) (page 184, left margin summary). That document goes on to say, at page 186, that "An expansion in Scottish EfW capacity occurred ahead of their original 2021 biodegradable municipal waste ban date, and a repeat of this should be avoided (across the UK), due to the risk of locking-in increased EfW fossil emissions". This is relevant to the Proposed Development because even with the tokenistic smidgeon of carbon capture proposed, the North Lincolnshire incinerator would risk locking-in increased EfW fossil emissions. The Applicant is incorrect to state there is nothing important or relevant in the 25 June 2021 Progress Report to Parliament. As noted in UKWIN's WR [REP2-110], the statement page 129 of 'Progress in reducing emissions' (CCC 2021 Report to Parliament) expresses the CCC's concerns that "If EfW usage is left to grow unchecked, EfW emissions will quickly exceed those of the CCC pathway while undermining recycling and re-use efforts" (emphasis added).

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	·	This is clearly relevant for the Proposed Development, especially in light of UKWIN's evidence that the proposal could result in creating or exacerbating incineration overcapacity whilst undermining achievement of the Government's recycling and re-use efforts.
		It is also highly relevant to the Proposed Development that, as per page 2 of REP2-105, the CCC's June 2022 Progress Report to Parliament warned "action is required to avoid an over-reliance or over-capacity of incineration".
		REP2-105 also refers to the CCC's Table 11.4 (page 394) listing of "Significant growth in the use of Energy from Waste / incineration" as a 'major risk' to achieving our climate ambitions, noting that "The use of Energy from Waste / incineration is now more prevalent than recycling in England, and has driven an increase in waste emissions in the years before the COVID-19 Pandemic. Continued, unchecked growth could undermine the sector's contribution to UK emissions targets and efforts".
		To mitigate this risk the CCC highlighted the importance of considering whether or not incineration capacity built today would still be needed by 2050. The CCC makes clear that assessments of the need for capacity by 2050 should be based on a scenario that is "consistent with committed and proposed targets to improve recycling, reduce waste and reduce waste being landfilled" and in line with the requirement set out in draft EN-3 that "new EfW should not be built unless they can demonstrate compatibility with waste treatment capacity needs and the waste hierarchy".

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Emissions Guidance A revised IEMA Guide to Assessment Greenhouse Gas Emissions and Evaluating their Significance was published in February 2022; it contains updated guidance in respect of classifying the overall significance of effect for GHG impacts. (i) Can the Applicant explain what the implications of the revised guidance would be for the assessment of likely significant effects presented in ES Chapter 6 Climate?	IEMA's updated guidance would not materially affect the assessment method adopted, nor the results presented. In the EIA context, the update provides relative significance descriptions to assist assessments, describing five distinct levels of significance which are not solely based on whether a project emits GHG emissions alone, but how the project makes a relative contribution towards achieving a science-based 1.5°C aligned transition towards net zero. The carbon balance for the facility shows a net reduction in greenhouse gas emissions as a result of avoiding the landfill of residual waste, and as a result of recovering materials and energy that offset those from other sources. The IEMA guidance significance criteria describe a project that causes GHG emissions to be avoided or removed from the atmosphere having a	The revised IEMA guidance serves importance of the Applicant's failure to ru that their proposal could have higher of alternative waste treatment and alternative waste options. As set out in UKWIN's REP2-110 Writternative there are numerous instances where the out adverse GHG impacts of the proposed insignificant even though, on their own with other factors, they could have change the assessment. In terms of assessing the effects of the updated IEMA guidance retains the guidaternative of the 'mitigation hierarchy' is the condition of the 'mitigation hierarchy' is the condition of the proposed project and approaches to achieve the desired importance of this is highlighted on page which noted, with respect to this elem guidance, that "Given the drive to support the waste hierarchy (reduction, preparative recycling) and to minimise the adverse impacts of waste management, it is in simply assume that waste that is otherwise be sent untreated to landfill". Page 64 of REP2-109 also highlights considering UK grid decarbonisation set IEMA guidance, and this is retained in

beneficial

significant.

effect that

uidance serves to highlight the ant's failure to rule out the prospect d have higher GHG impacts than tment and alternative electricity

REP2-110 Written Representation, tances where the Applicant scoped ts of the proposed development as h, on their own or in conjunction could have changed the outcome of

he effects of the development, the retains the guidance that the top erarchy' is the consideration of the hich requires one to "evaluate the sed project and explore alternative e the desired outcome/s". The hlighted on page 65 of REP2-109, ect to this element of the IEMA ne drive to support the top tiers of duction, preparation for re-use and nise the adverse climate change agement, it is not appropriate to waste that is incinerated would ated to landfill".

also highlights the importance of arbonisation set out in the previous a IEMA guidance, and this is retained in the current IEMA guidance. As set out in UKWIN's WR [REP2-110], the Applicant fails to adequately consider grid decarbonisation.

Section 7 - Compulsory Acquisition, Temporary Possession and other Land or Rights Considerations

Q7.1.41 Refuse Derived Fuels (RDF)

- (i) The description of Work No includes 'an electricity generating station fuelled by RDF'. Is RDF defined in guidance/legislation or other form of document which the ExA can rely upon to the standard understand constituent parts of the fuel and how this then might influence the considered in the ES for example in respect of air quality?
- (ii) Is the content of RDF monitored and if so by whom?
- EA...drawing on European Waste Code list of wastes as code 19 12 "wastes from the mechanical treatment of waste (for example sorting, crushing, compacting, pelletising) not otherwise specified" and subcode 10 "combustible waste (refuse derived fuel)" The facility will receive RDF from outcomes a range of sources where sorting and separation has been carried out...As the specific waste types will be more particularly defined in the Environmental Permit, we consider it is preferable to cross refer to the specific controls on waste types that will be detailed in the Permit using appropriate EWC codes to ensure the facility meets the waste hierarchy and doesn't accept recyclable wastes.
 - (ii) Periodically, RDF delivered to the facility would be sampled for compositional analysis...

(i) RDF is defined by the EA...drawing on the European Waste Code list of wastes as code 19 12 "wastes from the mechanical" The Applicant's revised RDF Supply Assessment (REP1-006) looks at waste with a wide variety of EWC codes (as set out on pages 46 and 47 of REP1-006 Appendix A) that go well beyond the EWC code for RDF, which as noted by the Applicant is code 19 12 10.

Even if the plant were restricted to accepting only waste with the 19 12 10 EWC code, this would not guarantee that the plant would not adversely impact on recycling.

As set out in UKWIN's evidence, RDF can contain recyclable material and incineration overcapacity can harm recycling.

Additionally, as can be seen from the Wheelabrator Kemsley North decision, the mere fact that a proposed facility would require an Environmental Permit to operate does not preclude a finding that a proposed EfW plant would be likely to divert material from recycling and not just from landfill.

Within the context of air quality, items most likely to result in emissions spikes include PVC (including textiles containing PVC), lithium batteries (which can cause fires), and nitrous oxide cannisters. Periodic (or indeed annual) compositional analysis of the incoming RDF would be inadequate to prevent PVC, lithium batteries, and/or nitrous oxide cannisters from being part of the feedstock.

As previously noted by UKWIN, the Applicant's RDF Feed Supply Assessment does not adequately account for the availability constraints associated with imposing exacting feedstock specification requirements.

ExQ1	Applicant's REP2-033 Response	UKWIN Comments
Section 14 - Policy		
Q14.0.2 Planning Policy -	(v) The RDF Supply	The Applicant appears to be debating the question rather
Waste	Assessment was based on	than answering it. While the Applicant might not like the
v) The RDF Supply		framing, we would find it helpful for them to show the
Assessment at Tables 6 and 7:		impact on their RDF Feedstock Supply Assessment, both
What would these Tables show		individually and in-combination, of restricting their feedstock
if the assessment was caried		to RDF as specified, and of restricting the feedstock source
out only for the RDF as		to only the NLC area. REP2-039 and REP2-040 are of little
specified, for the NLC area		value in responding to these questions. The documents are
only, NLC and neighbouring		out of date, fail to actually assess likely available feedstock,
waste authorities, England,		and tend to suffer from some of the same flaws as
and a proximity value put		identified by UKWIN at Deadline 2 in relation to the RDF
forward in guidance?		Feedstock Supply Assessment and Planning Statement.
Q14.0.3 Electricity	The net generation per year	According to page 4 of the Government's EfW Guide: "The
Generation	is 641,896 MWh	important factor to consider is the overall efficiency, net of
In NPS EN-1 at paragraph		any energy required to run the process". This means net
3.2.3 the policy indicates that		generation figures should be favoured over gross figures,
the IPC (now SoS) should		and the plant should not be rewarded for its parasitic load.
attribute substantial weight to		The 'net' figure of 641,896 MWh is based on 91 MW
the consideration of need, with		generation minus a 9.5 MW parasitic load associated with
the weight attributed to on		the electricity for SCR and carbon capture. As such, the
considerations of need in any		641,896 MWh does not take into account other energy
given case being proportionate		demands listed in response to Q1.0.22 such as the 30 MW
to the anticipated extent of a		associated with batteries; 10.81 MW for hydrogen
project's actual contribution to		production; 3.8125 MW for the PRF; and 3.45 MW for
satisfying the need.		electric vehicle charging. This is alluded to in the fact APP-
i) In this case should this be		054 page 32 provides a lower figure of 608,880 MWh/year
the net generation – indicated		"Electricity export: go grid and other uses", with the
at Table 6 of [APP- 054] to be		associated footnote stating that "Other uses may include
641,896 MWh/yr as opposed		hydrogen production and battery storage".
to the gross output assumed to		
be up to 95 MW?		Furthermore, as UKWIN notes above with respect to
		Q1.0.22, the 91 MW figure may itself be overly optimistic.