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Portland energy recovery facility

Consultation response summary document August 2021

# PORTLAND ENERGY RECOVERY FACILITY CONSULTATION RESPONSE SUMMARY DOCUMENT POWERFUEL PORTLAND LIMITED AUGUST 2021



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# 1. Introduction

# Dorset Council's request for further information and clarification

- 1.1 In September 2020, Powerfuel Portland Ltd submitted a full planning application to Dorset Council for the construction of an energy recovery facility (ERF) with ancillary buildings and works including administrative facilities, gatehouse and weighbridge, parking and circulation areas, cable routes to ship berths and existing off-site electrical sub-station, with site access through Portland Port from Castletown (application reference: WP/20/00692/DCC) on land within Portland Port.
- 1.2 The application was accompanied by an environmental statement (ES) prepared in accordance with the Town and Country Planning (Environmental Impact Assessment) Regulations 2017 (as amended; hereafter the EIA Regulations), which provides an assessment of the likely significant effects associated with its construction and operation.
- 1.3 Dorset Council has consulted on the application and also appointed Tetra Tech to undertake a review of the ES, which ensured that the council had access to sufficient expertise to examine the ES. Representations have been submitted to Dorset Council by consultees, members of the public and other interested parties in response to the consultation on the planning application. Dorset Council has taken these representations into account in its consideration of the application.
- 1.4 Following the consultations, the council has formally requested additional information and clarification in a letter dated 30 April 2021. The council confirms that it considers some of the information requested constitutes 'further environmental information', and where this is the case, it is requested in accordance with Regulation 25 of the EIA Regulations and Section 62(3) of the Town and Country Planning Act 1990.
- 1.5 An ES Addendum has been prepared to review the council's letter and provide the information that is considered to be 'further environmental information' under Regulation 25 of the EIA Regulations. It forms an addendum to the ES.

# The purpose of this document

- 1.6 The council's letter also requests that further responses be given to topic-based issues raised in representations to the first consultation. In some cases, reference is made in the council's Regulation 25 letter to a specific consultee response, or aspects that are most relevant to the consideration of that topic area.
- 1.7 To address these specific requests, the applicant's response is provided in this Consultation Response Summary Document (CRSD) to the range of detailed technical points that were raised by statutory consultees and technically competent consultees during the first consultation.
- 1.8 Specifically, the CRSD covers the following topic areas requested by the council's request for further information:

- Design and materials (point 3) also covered in detail in the DAS Addendum and summarised in chapter 3 of the SPSS
- Landscape (point 4)
- Health (point 6)
- Historic environment (point 9)
- Ecology (point 11)
- Combined heat and power (CHP) District heating (point 13)
- Electricity generation and distribution (point 15)
- Shore power (point 17)
- Air quality (point 21)
- Carbon balance and greenhouse gas emissions including UKWIN (points 22 and 23) also covered in detail in the ES Addendum and summarised in chapter 3 of the SPSS
- Traffic (point 26)
- Surface water drainage (point 28)
- Contamination and geology (point 29) covered in detail in the ES
   Addendum
- Economic effects and jobs (point 33)
- Need and waste arisings (points 30, 31 and 32) also covered in detail in the Waste Need Paper and summarised in chapter 3 of the SPSS
- Compliance with development plan policy (point 34) also covered in detail in chapter 4 of the SPSS
- 1.9 For completeness, the CRD also covers some other topic areas where consultees have made comments but are not covered by the councils request for further information.
  - Alternative sites
  - Fall back scheme
  - World heritage site
- 1.10 Annex A provides the applicant's response to UKWIN comments on the submission (point 23).
- 1.11 Annex B to this CRSD provides a summary response to a wide range of topic areas raised by the public

# 2. Consultation response schedules

# 1. Need and waste arisings

## Other consultees

Item	Торіс	Summary of consultation comment	Applicant response
	Adams Hendry (on behalf o	l f SPWI)	
1.1	Need for the ERF in context of managing Dorset residual waste and residual waste arising from outside of the Dorset area by road and or sea. Evidence to support waste arising figures provided. The importation of residual waste by sea from outside of Dorset and compliance with the proximity principle.	Paragraph 2.2 It would be reasonable to assume that the proposed Portland ERF would be limited to treating residual waste from within Dorset only and will not import waste from elsewhere. This does not appear to be the case given the volumes of waste that could be brought in by sea. No evidence is provided to support the volumes of RDF (arising from outside of Dorset), that are stated in the application as being available to the ERF. Great weight is given to the site's location at a port and the intention to import residual waste from outside of the Dorset area by sea or by road is contrary to the applicant's stated need case and is contrary to the proximity principle.	The Portland ERF is well located to manage Dorset's residual waste export of residual waste out of the county and out of the country to also help to reduce the amount of residual waste that is sent to land sustainable method of management. The Waste Need Statement and Planning Supporting Statement de already large volumes of residual waste arising within Dorset and th future. These figures are derived from public statements issued by the 2019 Dorset Waste Plan. The ERF will provide capacity to help residual waste management needs and will also contribute towards national waste need. The ERF will also contribute towards meeting national need for low carbon energy and economic growth. The Wa analysis in respect to the waste availability in the defined catchmen existing capacity and potential planned capacity. It concludes that it waste available with the catchment than could be managed by the accounting for potential sources of waste passing by Portland by s The proposed ERF is a merchant plant, not tied to a specific local a unreasonable to assume that such a plant would be restricted to w administrative area. Whilst it is incorrect to say that 'great weight' is location, it is clearly a desirable attribute for an ERF to have direct a provide commercial flexibility and to enable waste to be brought to [and the weight attached to the port location is also due to the opp generated to provide shore power and district heating, both of whis sites]. It is therefore a factor that should be given weight in the plan other positive benefits associated with the proposed location at Po Figures provided in respect to potential waste sources are derived ' analysis and sector knowledge and expertise provided by its fuel su The proximity principle requires that an adequate network of waste established, and that waste should be disposed of in one of the ne- installations, by means of the most appropriate methods and techn high level of protection of the environment and public health. The importation of residual waste by sea or r
1.2	Extent of ERF catchment area and importation of waste	Paragraph 2.3 Given that the justification for the proposal is to avoid residual waste being sent to facilities in Hampshire and Somerset, why would it be acceptable to import waste	The Dorset Waste Plan strategy is to reduce the export of its residu residual waste management capacity in Dorset in line with proximity principles.



## te, reducing the need for the o other ERF facilities. It will adfill for disposal, the least

emonstrate that there are his is expected to increase in Dorset Council, including in Dorset to meet its own s meeting the regional and a local, regional, and aste Need Paper presents at area, taking account of there is more than enough Portland ERF, not sea.

authority contract. It is vaste arising in an s attributed to a port access to a port facility to the site sustainably by sea portunities to use the energy ch are not possible at other nning balance, among many prtland Port.

from the applicant's market upply partner.

e disposal installations be arest appropriate nologies in order to ensure a

orset to the Portland ERF, entirely in accordance with

ual waste by providing ty and self-sufficiency

Item	Торіс	Summary of consultation comment	Applicant response
		from Hampshire and Somerset. The extended catchment necessary demonstrates the unsuitability of the site.	However, this comment fundamentally misunderstands the dynamic market, where waste frequently crosses administrative boundaries do so. Under the principle of self-sufficiency, if waste is being expor- waste can also be imported. In Dorset the balance is heavily skewe all of its residual waste due to the absence of capacity. The ERF will export of Dorset waste to other counties, but equally is able to impor- catchment area market where deemed appropriate and necessary.
			The 3 hour catchment area is considered to be entirely appropriate The catchment area simply indicates from where residual waste mig and this would apply to any ERF. It does not in any way indicate wh or not, as is being suggested here.
1.3	Availability of RDF from the New Earth Solutions Canford MBT	Paragraph 2.5 Given that Dorset Council's residual waste is contracted to the Canford MBT facility with the resultant RDF sent to the Bridgwater Resource Recovery Facility under a long-term supply contract. The RDF derived from the Dorset Council area is therefore not available to the Portland ERF.	Both Beauparc (the owner of the Canford MBT) and Geminor (the F Bridgwater and, it is anticipated, to the ERF), have confirmed that s consented, the RDF derived from its Dorset residual waste contract from Bridgwater to Portland as the nearest appropriate facility to ma with the proximity principle and self-sufficiency. We understand that the RDF that would have travelled over 120 km from Dorset to Bridg
			As set out in the Waste Need Paper, Beauparc will be increasing th Canford MBT facility from 125,000 to around 200,000 tpa. This will increase its RDF production, and supply far more RDF to the Portla supplying over 80% of the ERF feedstock from Dorset derived RDF of an RDF processing plant in Dorset should encourage further inve- plants (like Canford) to ensure that more of the 321kt residual waste Dorset (a figure that is expected to increase) is managed within Dor- sent to landfill or energy recovery at facilities located outside of the
1.4	The effect of the Environment Bill on waste arisings and the need for residual waste treatment capacity	Paragraph 2.6 The Environment Bill is expected introduce resource-efficiency standards for products to drive a shift in the market towards products that can be more easily recycled, as well as products that last longer and which can be re-used and repaired more easily. Furthermore, extended producer responsibility schemes and the introduction of a requirement for collection of certain waste materials, such as food waste will have an impact on future waste forecasts.	Powerfuel Portland welcomes the measures to be introduced by the supports the intention to prevent waste and recover waste materials residual waste. The effect of such measures is not yet known and v time to have an effect on levels of residual waste. Irrespective of this Statement demonstrates, there are large volumes of residual waste that far exceeds the capacity of the Portland ERF and the total volu arisings from LACW and C&I waste are projected (by Dorset council the next 10 years. A need will therefore remain for the ERF capacity Furthermore, the ERF has been robustly designed to operate at a rasuch that should the level of plastics in the residual waste stream far be the case, the facility would continue to operate successfully.
			Furthermore, the ERF has been robustly designed to operate at a rassuch that should the level of plastics in the residual waste stream far be the case, the facility would continue to operate successfully.
1.5	Reliance upon meeting the needs of other local waste authorities.	Paragraph 2.8 Whilst meeting Dorset's energy recovery capacity requirements, it is ERF is reliant upon the contribution it would make to meeting the needs of surrounding waste planning authorities as well as those further afield. Without understanding the facilities currently available in the waste catchment, it is impossible to determine whether the application site is best located to meet that need.	The Portland ERF is appropriately sized to manage a large proportion waste and is well placed to do so. As a merchant plant, the ERF we accepting waste from within its catchment area, depending on the The proposed ERF (sized at 183,000 tonnes per annum – nominal of provide the opportunity to process a significant volume of Dorset's (being 321,000 tonnes per annum) but, if spare capacity exists, the used to manage residual waste arising from its catchment area, as the UK.

ic nature of the waste where it is appropriate to rted from Dorset, then ed such that Dorset exports ill significantly reduce the ort waste secured from the

e for a facility of this type. ght reasonably be sourced hether a location is suitable

RDF supplier to both should the Portland ERF be it would be diverted away panage this waste, in line at Geminor would replace Igwater with other supplies.

ne RDF capacity of its I enable the facility to further and ERF (potentially F). In addition, the location estment in pre-treatment e currently produced by rset, reducing the volumes county or the UK.

the Environment Bill and ls for re-use, thus reducing will inevitably take some is, as the Waste Need e currently arising in Dorset umes of residual waste cill to increase by 20% over y.

ange of calorific values, all in future, as is hoped to

ange of calorific values, all in future, as is hoped to

on of Dorset's residual ould be capable of market.

capacity) will be able to current residual waste on this could reasonably be is common practice across



Item	Торіс	Summary of consultation comment	Applicant response
			Whilst there are other ERF facilities located within the catchment, the subject to the market and available capacity. Where residual wasted cannot be managed by existing facilities due to capacity constraints. Portland where it is economically and practicably viable to do so.
1.6	Compliance with The National Policy Statement for Renewable Energy Infrastructure (EN-3) in respect to waste hierarchy and need	Paragraph 2.9 Decision making bodies should be satisfied, with reference to the relevant waste strategies and plans, that the proposed waste combustion generating station is in accordance with the waste hierarchy and of an appropriate type and scale so as not to prejudice the achievement of local or national waste management targets in England. No information has been provided on the proposal in relation to waste strategies and plans within the waste catchment area outside Dorset.	The ERF is positioned to meet a significant proportion of the residur requirements of Dorset, and this is fully addressed in the planning a manage RDF, which is waste where all recyclable and recoverable removed. Currently Dorset exports 100% of its RDF, either to out of to out of county/country processing facilities similar to the ERF. The accordance with the waste hierarchy by helping to reduce landfill a recycling targets at the national or local levels for Dorset or any othe the waste catchment area.
1.7	Compliance with National Planning Policy for Waste (NPPW) in respect to existing and permitted facilities.	Paragraph 2.10 Waste planning authorities should consider the extent to which the capacity of existing operational facilities should satisfy any identified need. Information is therefore required on the capacities of facilities within the 3-hour drive catchment area. It is also important to consider future capacity with reference to permitted but not yet operational facilities. It is not possible to determine whether the Portland ERF will displace other preferable proposals for waste treatment.	As set out in the Waste Need Statement and Planning Supporting 3 currently have any capacity for the final treatment of residual waste intermediate processing facility which requires the output to be exp landfill or processing facilities similar to the ERF. The Dorset Waste the need for additional capacity to be provided in Dorset so that less to landfill, or other facilities located in neighbouring waste authority. There are no operational or permitted ERFs in Dorset. The existing (Marchwood, Portsmouth and Chineham are at capacity and as co Project Integra are required to give priority to dealing with Hampshi The proposed Alton ERF is proposed as a merchant plant but is int capacity to serve Hampshire's needs. No planning permission has ERF at Alton. The Exeter ERF is a relatively small scale facility (60,0 specific local authority contract. The Bridgwater facility is under cor plant, albeit with a relatively small capacity of 100,000 tpa. The Wa capacity analysis taking account of other ERF in the catchment are permission but have not yet been built. It concludes that even acco ignoring future projected increases in waste arisings in Dorset or th imported by sea, there is more waste available within the catchmer by the Portland ERF. Where plants are proposed, there is no guarantee that planning pe Equally, where new facilities are permitted, there is no guarantee the constructed or become operational. Our understanding from large waste investors is that the ability to ra ERFs (<100ktpa) or advanced conversion technology (ACT) (includi gasification plants) projects is very limited given (a) the low returns of ERFs (due to high capex per tonne of RDF) and (b) the numerous fa suffered by investors in the case of ACT plants in the UK. This inclu- The planning application has demonstrated that there is no ERF ca capacity available at existing ERFs located outside of Dorset, but w the Dorset Waste Plan requires residual waste capacity to be provi- Dorset's needs.
1.8.	Need in context of the Low-Carbon Energy Facility (Low CEF) permitted at Canford	Paragraph 2.15 The Dorset Waste Plan states that the Canford Low CEF can be developed to deal with approximately 100,000tpa of RDF/SDF arising within the Plan area. It is not	Refer to PSS paragraph 4.33. The Canford Low CEF consent (app implemented and then subsequently abandoned on the basis that which has proven to be technically and commercially unviable (see Powerfuel Portland is not aware of any plans to complete this facilit form of thermal treatment facility at the site.

he management of waste is is not tied to contracts or s, this could be sent to

al waste treatment capacity application. The ERF will materials have been of county landfill solutions or he ERF is therefore fully in and would not compromise her authorities located within

Statement, Dorset does not = the Canford MBT is an ported to out of county Plan strategy is based on ss residual waste exported areas.

ERFs in Hampshire ontracted facilities under ire's residual waste arisings. tended to provide additional yet been granted for an 000 tpa) and also serves a nstruction and is a merchant aste Need Paper presents a ea that have planning ounting for this capacity and ne volumes that could be nt than could be managed

ermission would be granted. hat they would be

aise capital to fund small ing pyrolysis and offered in the case of small ailures and significant losses udes examples in Dorset.

pacity in Dorset and limited vithin its catchment. As such ded in Dorset to meet

roved in 2018) was partly this used ACT technology comment above). ty or progress any other



Item	Торіс	Summary of consultation comment	Applicant response
		clear to what extent this facility has been taken into account in the Applicant's arguments on the need for the Portland ERF. Further information is required.	The Low CEF capacity is unlikely to make any contribution towards meeting Dorset's needs. Rather, the Canford site will serve as a focal point for the intensification of RDF production, which as confirmed by the owner, Beauparc, in the Waste Need Paper, is planning to increase its RDF capacity to around 200,000 tpa, for use at other treatment facilities such as the Portland ERF. It has been suggested by some consultees that the Low CEF plant is operational and
			contributing towards meeting Dorset's residual waste capacity needs. That is incorrect.
1.9	Need in context of potential capacity of allocated sites in the DWP	Paragraph 2.17 The total potential capacity within the four allocated sites amounts to 385,000tpa, exceeding the identified needs of the plan area by over 150,000tpa. This ensures that the DWP is flexible in the event that one or more of the allocations does not come forward for the treatment of residual waste. The site allocations are existing waste management facilities.	The comment is correct in so far as the DWP identifies potential capacities for allocated sites, in excess of the capacity requirement. However, as set out in detail in the Planning Supporting Statement, this is only theoretical or potential capacity that may not come forward. The recent proposal for a small scale ERF at the Parley site of 60,000 tpa (or 50,000 tpa after recycling) provides only 30% of the capacity envisaged by the DWP due to site constraints. This may not gain planning permission and other sites may not come forward at all with any new capacity. As set out in the Supplemental Planning Supporting Statement there are significant challenges to fund the development of small scale (<100ktpa) ERF projects or ACT projects. As the projects identified in the DWP are all of this size it is unlikely that these will provide a credible solution for Dorset.
			sites) where this would have clear advantages over the allocated sites. This is clearly demonstrated in the Planning Supporting Statement, the Supplemental Planning Supporting Statement, and other supporting technical documents.
1.10	Need in context of DWP reference to existing surplus capacity.	Paragraph 2.18 The DWP states that the capacity of facilities in southern England with surplus capacity that could deal with Bournemouth, Christchurch, Poole and Dorset's residual waste will be considered on the basis that it makes little sense to build additional facilities where existing facilities have surplus capacity.	The response to section 7 above makes clear that there is no ERF capacity in Dorset and limited ERF capacity elsewhere within neighbouring local waste authority areas. The Waste Need Paper analysis shows that there is little existing surplus capacity in the catchment areas that could be relied upon to manage Dorset's residual waste, as most is tied to local authority contracts.
			Whilst it is right for Dorset Council to consider whether surplus treatment capacity already exists in southern England, the DWP (paragraph 7.78) recognises that if new facilities are not brought forward during the plan period then the Dorset area would need to rely on facilities outside of the plan area to manage its residual waste and that there is no guarantee that facilities would have capacity to meet projected arisings, this being contrary to the proximity principle and self-sufficiency.
			The clear intention is for the DWP to bring forward new facilities in the plan area given a demonstrable lack of existing capacity.
1.11.	Provision of satisfactory evidence to support proposals on unallocated sites.	Paragraph 2.19 The DWP require proposals for waste management facilities on unallocated sites to be supported by a satisfactory level of evidence, including the nature and origin of the waste to be managed, the levels of waste arising, the existing or permitted operating capacity and the potential shortfall in capacity or market need that the proposal seeks to address. This level of detail has not been provided by the applicant.	The Waste Need Statement identifies the nature and origin of the residual waste to be managed as far as is possible for a merchant plant of this type. It identifies the level of waste arising in Dorset, regionally and nationally with referce to published DEFRA data. The DWP clearly identities the potential shortfall of capacity for residual waste management and the need for new waste management infrastructure to be provided within Dorset. All of this evidence is fully set out in the Waste Need Statement. Further evidence on existing and permitted waste capacity, the waste capacity gap and sources of RDF are provided in the Waste Need Paper.
1.12	Capacity of existing residual waste treatment facilities within the 3 hour catchment area	Paragraph 2.20 No information has been provided by the Applicant on the capacity of existing facilities, particularly those within the defined 3-hour drive waste catchment	The applicant's market analysis, set out within the Waste Need Paper identifies only four ERFs that are deemed to be 'certain' within the defined 3-hour catchment. Three of these are operational (Marchwood, Exeter and Chineham) and the fourth is still under construction (Bridgwater). All these ERFs manage significant tonnages of residual local authority collected



Item	Торіс	Summary of consultation comment	Applicant response
			waste under contract with limited merchant capacity for additional re or C&I wastes).
			Veolia operates the existing ERFs at Marchwood and Chineham with around 300,000 tpa. These ERFs are committed to long term waste County Council for managing local authority collected waste. Policy Hampshire Minerals and Waste Plan (2013) states that the long term sufficiency in waste movements and divert 100% of waste from land under planning condition to give priority to the management of Ham above residual waste from other waste authorities. They are therefor significant capacity available in future to manage Dorset's residual waste
			The Exeter ERF has a capacity of 55,000tpa and this is under contra Council to manage the residual waste collected from households in Teignbridge. Devon County Council's contract with the Exeter ERF is ERF is therefore unlikely to have any capacity available to serve Dors
			Veolia operates three existing ERFs at Marchwood, Portsmouth and combined capacity of around 300,000 tpa. All these ERFs are comr contracts with Hampshire County Council for managing local author Policy 25 of the adopted Hampshire Minerals and Waste Plan (2013) aim is to enable net-self-sufficiency in waste movements and divert landfill. The ERFs are required under planning condition to give prior Hampshire's residual waste, above residual waste from other waste therefore unlikely to have any significant capacity available in future to residual waste.
			The Bridgwater resource recovery facility is expected to be commiss capacity to manage 100,000 tpa of commercial and municipal RDF. contract with Geminor, who would supply 75,000 tonnes of RDF pe arising from the Dorset Council area (produced at the Canford MBT to the Bridgwater facility in the short term, the MBT operator (Beaup confirmed that this RDF would be diverted to the Portland ERF as the installation if planning was approved and the Portland ERF was const that Geminor would replace the RDF that would have travelled over Bridgwater with other supplies.
			Even if the Bridgwater facility had capacity to manage some or all of (which it does not, providing potential for management of only 75,00 Dorset residual waste arisings), the transportation of RDF by road fro would not fulfil the policy objectives of the DWP. It would not suppor sufficient in managing its own residual waste and would perform less principle, given that the proposed Portland ERF is in Dorset.
			The only other relevant residual waste treatment facility in the catchr MBT facility in Dorset. However, it is an intermediate facility in so far residual waste and creates RDF, which is currently managed at out expected to be processed at the Portland ERF in the future.

## esidual waste (household

th a combined capacity of e contracts with Hampshire / 25 of the adopted m aim is to enable net-selfdfill. The ERFs are required npshire's residual waste, ore unlikely to have any waste

act with Devon County Exeter, east Devon and runs until July 2044. The set's needs.

d Chineham with a mitted to long term waste ority collected waste. 3) states that the long term 100% of waste from wity to the management of e authorities. They are to manage Dorset's

sioned in 2021. It will have The facility is under er annum. Whilst the RDF facility) is likely to be sent parc) and Geminor has he nearest suitable istructed. We understand 120 km from Dorset to

of Dorset's residual waste 100 of the total 321,000 rom Dorset to Somerset, ort Dorset to become selfss well under the proximity

ment area is the Canford as it processes untreated of county facilities but is



#### 2. Alternative sites

#### Other consultees

Item	Торіс	Summary of consultation comment	Applicant response
	Adams Hendry (on behalf c	f SPWI)	
2.1	Interpretation of Policy 4 part a in respect to allocated waste sites	Paragraph 2.32 The Applicant has misinterpreted Policy 4 in an attempt to demonstrate compliance. Criterion (a) does not require an assessment to determine whether it is capable of accommodating the Applicant's proposal, rather the requirement is whether the allocated sites could serve the same waste management need that the proposal is designed to address. The DWP (paragraphs 9.29 – 9.30) indicates that the development of energy from waste facilities involving incineration within the allocated sites has the potential to adversely affect European and internationally protected sites, suggesting that there are other residual waste treatment technologies such as advanced thermal treatment where adverse effects may be ruled out with much greater confidence.	This is incorrect. The assessment submitted in support of the application within a commercial port, the presence of an extant planning facility fueled by waste materials, its status in the development plan employment site, its potential to provide shore power, its potential freat and power facility (via a local heat network to supply high demineration of DWP allocated sites was undertaken to demonst and the proposed ERF has advantages over the allocated sites in b an ERF of the type and capacity proposed, as required by Policy 4 i requested by planning officers in pre-application advice. In doing so relative disadvantages of the DWP allocated sites because of the id (development considerations) listed in the DWP site allocations. The undertaken to demonstrate that the allocated sites could not contrib Dorset's waste management needs as is being suggested in this of The proposal is specifically for an ERF capable of meeting Dorset's management needs. The DWP does not specifically exclude inciner rather indicates that there is potential for adverse impact. The DWP and does not preclude any technologies on the allocated sites. The recent submission of a planning application by Eco-Sustainable Parley shows that proposals can come forward for incineration on D provided this does not adversely impact protected European sites. I safeguarding. This also reinforces the assessment conclusion that is significant advantage of being less constrained and capable of accord ERF that is capable of meeting Dorset's needs. The DWP. Even at this smaller scale there is doubt as to whether be granted, given the constraints imposed by protected heathland f safeguarding. This also reinforces the assessment conclusion that is significant advantage of being less constrained and capable of accord ERF that is capable of meeting Dorset's needs. The DWP is also reinforces the assessment conclusion that is significant advantage of being less constrained and capable of accord ERF that is capable of meeting Dorset's needs.



cation is not an alternative on its advantages such as its ng permission for an energy n as a key industrial for operation as a combined nand, established adjacent

strate that the Portland site being capable of delivering (criteria a), and as o it also highlights the dentified constraints e assessment was not ibute towards meeting bjection.

residual waste ration at allocated sites but adopts a flexible position

e Solutions for an ERF at DWP allocated sites, However, its relatively small conclusions that the Parley eatment capacity envisaged planning permission would habitats and airport the Portland site has the ommodating a larger scale

nced thermal treatment or nical failures that have that ACT/ATT is a potential ) but even in these projections (which impacts e examples in the UK of www.seeking amendments to proposed at the Portland we that ACT/ATT is a

Item	Торіс	Summary of consultation comment	Applicant response
			On that basis and in the context of the proposed ERF, it is entirely appropriate to consider the relative merits of the Portland site against allocated sites to demonstrate that clear advantages exist.
2.2	The role of DWP allocated sites in meeting the Dorset shortfall in residual waste management capacity.	Paragraph 2.33 No information has been provided to demonstrate that the allocated sites could not manage the shortfall in non-hazardous residual waste arising in Dorset. It is necessary to demonstrate that the proposal provides advantages over the allocated sites. The correct comparison should be a proposal for managing non-hazardous	The applicant has not sought to demonstrate that the DWP allocated sites could not manage the predicted shortfall residual waste. However, from its assessment of the allocated sites and their constraints relative to the Portland site, it is clear that there must be significant doubt as to whether the allocated sites will be able to deliver sufficient capacity to meet all of Dorset's stated needs. The proposed ERF at Parley (50,000tpa residual waste), if granted permission and funded, would provide only 30% of the capacity that was assessed in the DWP allocation (160,000 tpa).
		residual waste against the Applicant's proposal for an ERF. It would be perverse if the comparison was an ERF on the allocated sites when the DWP makes it clear that this is unlikely to be acceptable.	As detailed in the Waste Need Paper, future waste activity at the Canford site is expected to be focused on increased RDF production at the MBT as an intermediate activity, with RDF production expected to increase to around 200,000 tpa. The Mannings Heath site is small and in use for other waste uses and is unlikely to deliver any significant residual waste treatment capacity, whilst the Binnegar Quarry site is very remote, is environmentally constrained and has no potential for establishing CHP.
			In addition, as noted in earlier responses, there are significant challenges to the ability to fund projects of this size given the high fixed capital costs per tonne of RDF processed (i.e. there are significant volume economies of scale associated with ERF projects). Whilst some parties have suggested that ACT/ATT technology could be used at a smaller scale, recent market experience of significant technical failures has meant this is no longer considered an investable solution (noting even ACT/ATT projects that were awarded significant Government subsidy support under the ROC and/or Contracts for Difference regime have failed to procure investment due to the identified technical risks).
			The planning application focuses on demonstrating the advantages of the Portland site over DWP allocated sites in delivering the proposed ERF technology. The applicant is proposing an ERF as a deliverable, robust and proven technology and is not proposing any other form of advanced thermal treatment technology. As such a comparison would be meaningless in this context.
			Furthermore, the DWP does not exclude incineration on allocated sites but highlights potential constraints and defers this for detailed application to address. This fact is demonstrated by the Eco-Sustainable Solution ERF proposal at Parley which comprises incineration technology.
2.3	DWP allocated sites assessment - operational criteria Access to waste outside of	Paragraph 2.33 The operational criteria used in the comparative assessment are flawed. The sites have been included in the DWP to meet Dorset's waste needs. This is specifically	The ERF is a merchant facility that is well placed to manage Dorset's waste but given that it is not specifically tied to any local authority waste contract it also requires flexibility to manage waste from its wider catchment.
	Dorset by sea (port) and by road	set out as a guiding principle in paragraph 3.1 where it states that the Waste Plan's role is to identify sufficient opportunities to meet the identified needs of Bournemouth, Christchurch, Poole and Dorset for waste management. Meeting these needs does not require access to a port. It is not the purpose of the DWP to meet the waste management needs of authorities within a 3-hour drive time or	Access to a port is not stated as a requirement or deemed necessary to meet Dorset's waste management needs. However, it does offer the potential for waste to be moved sustainably by water and must be considered a locational advantage over sites that do not have port access. The location at Portland also provides other significant advantages as detailed elsewhere, including the ability to provide shore power and district heating to local users.
			This comment aims to limit the ERF's role to managing Dorset waste only. This fails to recognise that the application makes it very clear that this is a merchant facility, which in common with other UK merchant facilities, can serve a wider waste market within its catchment area as well as its host administrative area. Furthermore, whilst the DWP sites may be allocated to provide capacity to meet Dorset's needs, waste regularly flows across administrative borders as part of a commercial waste market depending upon what commercial contracts are in place. The suggestion that such sites could not manage waste



Item	Торіс	Summary of consultation comment	Applicant response
			from other areas does not reflect the reality of waste movement or t market.
			The comment also fails to recognise that the DWP seeks to provide equivalent to meet Dorset's needs, but it does not necessarily follow capacity would be used to manage waste arising in Dorset only. Ide manage most or all of Dorset's residual waste, being very well place being located within Dorset. Support from Beauparc and Geminor in Paper should provide comfort that the RDF produced at Canford we Portland ERF should planning be approved.
			If there is not sufficient residual waste made commercially available other waste would be secured by sea or elsewhere within its catchr provides sufficient capacity overall to meet its needs, it will be able to sufficiency. If residual waste continues to move out of Dorset to oth contract, then an equal amount of waste secured from elsewhere co compensate achieving net self-sufficiency.
			The operational criteria used are therefore appropriate for a mercha the assertion that this is flawed is incorrect.
2.4	DWP allocated sites assessment	Paragraph 2.35 There is no requirement for a facility dealing with the WPA's non-hazardous residual waste to contribute specifically to meeting Portland's electricity needs, rather the assessment should consider whether the facility would contribute to meeting Dorset's electricity needs.	The applicant was invited to consider a proposal by Portland Port to and Portland. The need for shore power at the Port is set out in the legitimate operational requirement of the project. The ability to delive significant advantage of this site over the DWP allocated sites. The potential advantages that a non-allocated site might have and DWP proposals on unallocated sites to be considered on their merits. Ho opportunities to provide power (and district heating) are important of site advantages and DWP paragraph 6.11 reflects this, stating that sustainable localised heat and energy sources could also be a posit appropriate locations'. The suggestion that Dorset's energy requirements should be asses context, although it should be recognised that the ERF would also of Dorset's energy needs indirectly by first serving Portland. The ability the port, in the absence of other viable means of providing electricit mainland, is a significant locational advantage and this comment se importance of this operational ERF requirement and this significant is
2.5	DWP allocated sites assessment	Paragraph 2.36 There is a specific policy requirement for residues arising from the facility to be managed in accordance with the waste hierarchy and the proximity principle. This should be reflected in the operational criteria used in the assessment but yet it is not.	As set out in the planning application the proposal is for IBA to be t advantage over other DWP allocated sites due to reduced traffic im processing facility that will recycle the material. This approach is en- waste hierarchy and proximity principle in terms of transporting mat There is no requirement for a treatment of residue criterion, however location, the potential to partner with local quarrying businesses to facility on site and its ability to transport by sea, it would likely score sites which do not have direct port access.
2.6	Consideration of the Portland site together with other allocated sites through the preparation of the DWP.	Paragraph 2.41 It clearly was not in the Applicant's interests to promote the proposed Portland ERF through the Waste Local Plan as it is seeking to meet a need over and above that required in Dorset. Sites such as this should have been considered through the Local Plan process so that they could be assessed on a consistent basis and	The site was not considered in the DWP even though the site was A Partnership and was actively being discussed as a potential location management facility to serve Dorset. The DWP had reached an adv preparation and nearing the point of adoption at the time the applic proposals for the site. It was not possible to promote or include the advanced stage. It is therefore speculative, highly misleading and co

### the dynamics of the waste

e sufficient capacity that is w that all of this treatment eally, the ERF would ed commercially to do so noted in the Waste Need *v*ill be made available to the

to the Portland ERF then ment. Provided that Dorset to achieve net-selfner treatment facilities under can be secured to

ant facility of this type and

o deliver energy to the Port e application and is a ver shore power is a DWP cannot identify all P paragraph 6.11 requires owever, it is clear that the considerations in respect to 'the provision of itive consideration in

ssed is not relevant in this contribute towards meeting y to provide shore power to ty for shore power from the eeks to downplay the site advantage.

transported by sea (an npact) to a specialist itirely in accordance with the terial sustainably by sea. er, given the site's port develop an IBA processing e better than DWP allocated

known to the Dorset Waste on for a strategic waste vanced stage in its cant began progressing its Portland site at that completely incorrect to



Item	Торіс	Summary of consultation comment	Applicant response
		examined before an independent Inspector. To seek to undermine the strategy in the Local Plan within a year of it being adopted is unacceptable.	suggest that the applicant did not promote the site in the DWP on p suggested here.
			Irrespective of the above, the DWP recognises that the delivery of w dependent on the market and the industry and therefore adopts a fl accepting that some or all of the allocated sites may not come forw come forward with advantages over allocated sites (Policy 4).
			It is therefore entirely reasonable for unallocated sites to come forward development plan process and for these to be considered on their redevelopment plan policy, through a planning application. Indeed, the provision for this. This is especially the case given the assumptions sites in the DWP now appear to be challenging, noting the significant Parley proposal (c. 30% of allocation volumes), the Canford proposal intermediate RDF production facility (as opposed to provide an RDF planning constraints identified in the Planning Support Statement are challenges to procuring finance to build projects to the small size special sites in the DWP.
			It is incorrect to claim that the promotion of an unallocated site with allocated sites is unacceptable, or in some way undermines the add the proper planning process, irrespective of its age.
2.7	DWP allocated sites assessment – Operational criteria 'site size'	Paragraph 2.42 The site assessment submitted by the Applicant is contrived to ensure that the application site is ranked highest. There is no policy requirement for residual waste to be managed through incineration and therefore scoring each of the allocated sites on their suitability for an ERF is inappropriate.	The assessment of allocated sites is not contrived but rather is a ref requirements of an ERF. The DWP is not technology specific and th requirement for any specific technology, ERF or otherwise. The suita an ERF and the consideration of the relative advantages and disadv and other allocated sites is a legitimate consideration for decision m this is inappropriate is misleading.
		Sites have been assessed as being less suitable than the application site because they are less than 2ha when in reality the area of the site depends on the technology employed and the likely throughput of waste. There is no reason why a network of smaller sites utilising different technologies would be any less suitable than a single ERF.	Theoretically a network of smaller sites with different technologies c is unlikely that such a strategy, dependent on advanced thermal tre smaller scale traditional thermal treatment technologies would be de urgent need in Dorset. Dorset has a track record of failed proposals technologies or small scale facilities that have left the county with no management facilities and a significant shortfall in capacity. The inv for ACT/ATT for RDF treatment has further reduced in the past 2-3 number of technical failures and the ability to finance conventional E (<100ktpa) is limited as the returns achieved do not provide adequat (due to high fixed capital costs).
			The purpose of the assessment was to demonstrate that the Portla accommodating a larger-scale ERF, with greater certainty of deliver capacity and energy recovery potential that this would bring, as an less than 2ha in size which could not deliver those benefits.
2.8	DWP allocated sites assessment – Operational criteria 'proximity to primary road network'	Paragraph 2.43 The decision to score sites on their proximity to the primary road network fails to take account the nature of local roads. The nature of the road system connecting Portland to the mainland means that hold-ups or bottlenecks can have an effect which extends back through Wyke and the edges of Weymouth.	The function of the primary road network is to provide linkages betw ports/airports with A roads intended to provide large-scale transpor assessment considers at a strategic scale proximity to the primary r matters such as junction capacities, congestion or pinch points in the occur across the entire primary road network and assessment of the transport assessment. A transport assessment has been undertaked consider this matter.

#### purpose, as is being

waste infrastructure is flexible approach to delivery, vard, or that other sites may

vard, outside of the merits in context of the me DWP specifically makes applied to the allocated antly reduced size of the sals to expand its F processing solution), the and the broader commercial pecified for the allocated

n clear advantages over opted DWP and deviates

flection of the operational here is no policy tability of allocated sites for vantages between Portland nakers. The suggestion that

could meet need, however it eatment technologies or leliverable or meet the s for higher risk to significant residual waste vestment market appetite years given increasingly ERF at small scale ate return for the risk profile

and site is capable of ry, greater treatment advantage over those sites

ween settlements and rt links between areas. The road network. Local the network are likely to his is a matter for detailed en for the proposal to



Item	Торіс	Summary of consultation comment	Applicant response
2.9	DWP allocated sites assessment – Weighting of criteria	Paragraph 2.44 The assessment is flawed in that it assumes each criterion has the same weight when in reality this is not the case. There is a legal requirement to ensure that the integrity of European sites is not adversely affected by development. This clearly should carry much more weight in the assessment process than meeting Portland's electricity needs for example, for which there is no such legal requirement	The methodology applied applies equal weighting to criteria as a more objective approach than arbitrarily seeking to apply weighting. The methodology has been tested by Inspectors and the Secretary of State through examination at numerous public inquiries and has been found to be sound.
2.10	DWP allocated sites assessment – Consented scheme as an alternative	Paragraph 2.45 It is unclear why the previously consented scheme, which the applicants are relying on as a fallback, is not considered as an alternative.	The assessment considers the proposed ERF at Portland against DWP allocated sites. The consented scheme, whilst setting a precedent for an energy plant use at the application site, comprises a different technology to that adopted by the proposed ERF and would not provide a solution to Dorset's waste challenge. It does not represent a fallback as is suggested and therefore is not a realistic alternative and does not need to be considered as such, but it does evidence that development of an energy plant on this brownfield port location was previously deemed appropriate.
2.11	DWP allocated sites assessment – Consideration of compliance in relation to EIA regulations	Paragraphs 2.46 and 2.47 The comparative assessment against waste local plan allocated sites is not sufficient to meet the terms of the EIA Regulations. It is far too high level to understand, even in basic terms, what the likely effects would be on the environment	This is not correct. The approach adopted for the comparative assessment has been applied to many similar projects and has been tested by Inspectors and the Secretary of State through public inquiry and found to be sound and in accordance with EIA regulations. The EIA Regulations require 'an indication of the main reasons for selecting the chosen option, including a comparison of the environmental effects', which the report provides.
	Freeths (on behalf of the Portland Association)		
2.12	DWP allocated sites assessment – absence of weighting criteria	Page 4 The comparative assessment (CA) document explains that the methodology is to appraise the sites against each of the criteria on an equal basis and no weighting will be applied to any of the criteria. This is suggested by the Applicant that it makes the assessment more objective and robust and removes subjectivity. We strongly disagree. On the contrary it dilutes the credibility of the assessment in that all criteria are treated as equal when in reality this is evidently not the case. As an example, criteria 11 'Proximity to designated ecologically sensitive areas', which includes impacts on integrity of European sites for which there is a legal requirement to ensure that development does not adversely affect should have substantial weight in any decision making process. By comparison this is likely to be significantly more important than if a site is 3km or 5km from a primary road network (criterion 3 relates to proximity to primary road network). Whilst the CA claims that a non-weighting system reduces subjectivity, the reality is that the exercise is already highly subjective through a range of assumptions on how the parameters are set in respect of whether an impact falls within the 'Meets criterion', 'Partially meets criterion' or 'Does not meet criterion' categories.	As stated in the comparative assessment document, the methodology applied to the study applies equal weighting to criteria as a more objective approach than arbitrarily seeking to apply weighting. The methodology has been tested by Inspectors and the Secretary of State through examination at numerous public inquiries and has been found to be sound and robust. In trying to apply weighting this is more likely to introduce subjectivity and debate as to why particular weightings have been applied. The parameters set are considered to be reasonable and appropriate.
2.13	DWP allocated sites assessment – proximity principle criteria	Page 4 There is no category which analyses the proximity of the sites to the sources of waste. The principle of proximity means that waste should be recovered or disposed of, as close as possible to where it is produced. This is a key policy factor in decision making and forms part of the wider consideration of assessment under Policy 4 of the Waste Plan. It is central to the sustainability argument and therefore its absence from any comparison assessment is a significant omission	The role of the proximity principle, alongside the waste hierarchy and self-sufficiency principles is fully recognised and addressed in the Planning Supporting Statement. It is acknowledged that the DWP spatial strategy identifies and allocates three sites for strategic residual waste management in and around the south east Dorset conurbation to reflect that a significant proportion of Dorset's waste arises in this area. However, the DWP also allocates Binnegar Quarry, which is located outside of and some distance from the conurbation, reflecting the fact that there are also significant volumes of residual waste arising outside of the conurbation. Even if a criterion were to be added to reflect proximity to waste arisings and sites 7, 8 and 9 were deemed to fully meet that criterion, the Portland ERF site (site 13) is also located in close proximity to the Weymouth and Portland conurbation and capable of serving the towns of Dorchester and Bridport. It would therefore also be deemed to be well placed in respect to

OWP allocated sites. The use at the application site, ERF and would not provide ack as is suggested and idered as such, but it does ort location was previously essment has been applied e Secretary of State through egulations. The EIA the chosen option, ort provides. ogy applied to the study an arbitrarily seeking to and the Secretary of State und to be sound and robust. ity and debate as to why onsidered to be reasonable nd self-sufficiency principles ment. It is acknowledged strategic residual waste eflect that a significant also allocates Binnegar nurbation, reflecting the fact side of the conurbation. isings and sites 7, 8 and 9 e 13) is also located in close of serving the towns of well placed in respect to



Item	Торіс	Summary of consultation comment	Applicant response
			centres of waste arising and so would potentially meet the criterion minimum, would partially meet the criterion. Irrespective of the scor would not alter the conclusions of the DWP allocated sites assessm that the Portland ERF site can demonstrate significant advantages of sites. These significant advantages are set out in the Planning Supp re-affirmed in the Supplemental Planning Supporting Statement.
2.14	DWP allocated sites assessment – site size limit	Page 5 The CA document advises that the site size has been chosen on the basis that a minimum of 2ha is required to accommodate a ERF building, circulation and car parking. Herein lies a fundamental misinterpretation of the tests of the policy. This is not an exercise to see whether any sites could accommodate the exact scheme proposed by the application. It is a comparison of advantages of the proposed development over allocated sites to meet the requirements of managing the non-hazardous waste. If therefore the proposed development site is larger and potentially may generate a higher output, then that may in theory be an advantage, but it should not automatically rule out a comparison to a smaller site. An example of this is that Site 9 – Land at Mannings Heath Industrial Estate, Poole, which has been excluded from the second sift of analysis on the basis that it is under 2ha. However, it is an allocated site within the Waste Plan that has been tested at examination. Although we have concerns about the Applicant's methodology it is noteworthy that it scores second in their 'league table' of sites. To dismiss this site on the basis of it being under 2ha, again undermines the comparison assessment.	The Proposed Portland ERF has a nominal residual waste capacity annum and a maximum capacity of 202,000 tpa. As such the facilit economically viable and deliverable and is capable of managing a si Dorset's residual waste arisings and recovering significant amounts identified local requirement (being shore power) whilst also being ca supply to local users via a district heating network. In waste manage significant advantage, and this is recognised in this comment. To de area required for such a facility is deemed to be a minimum of 2 ha. The purpose of the DWP allocated sites assessment is to compare Portland site against allocated sites. The ability of allocated sites to scale facility, of the scale and type proposed at Portland, in terms o availability is a legitimate consideration. In the context of site 9, the advantage in that it has the capability to accommodate a larger sca that arise from that efficiency. We further note the comments regarding the commercial viability of whether, even if progressed and approved through planning, this w attract the investment capital required to be built and provide an ac waste management challenges.
2.15	DWP allocated sites assessment – potential to meet Portland's energy needs	Page 5 This criterion for a comparative exercise of sites across the Dorset planning authority area is outright bizarre. The proposed development site is the only site in Portland and therefore evidently it has an unfair advantage over other sites. Clearly, if a 'meeting electricity needs' criterion is justified it should be based on a sites ability to contribute to Dorset's electricity needs to allow fair assessment.	The DWP allocated sites assessment (paragraphs 2.27 to 2.29), tog supporting documents (Energy Need Statement and Shore Power S why there is a specific need for an economically viable electricity su provide shore power, given the supply constraints. The purpose of assessment is to demonstrate the advantages of the Portland site of as required by policy 4 of the DWP. The site's location on Portland and its ability to directly supply electr power is a significant locational advantage that other sites located of not have. Indeed it is illogical that this comment suggests that a loc some way 'unfair' simply because the alternative allocated sites do advantage and odd that a Dorset wide energy need criterion should alternative to make this 'fair'. This comment fails to recognise the ver- and need for additional electricity supply capacity on Portland to me need. Furthermore, whilst the Portland site can meet a Portland en- towards a wider Dorset energy need, the other DWP allocated sites contribute to the latter. In addition, the opportunity for the Portland ERF to provide heating further differentiator versus other allocated sites (as outlined in the D national policy specifically states that plant should be sited to allow to provide combined heat and power, an opportunity that is only rea Portland given the high demand and credit quality of local off-takers

or, as an absolute ring of such a criterion, this nent or diminish the fact over the DWP allocated porting Statement and are

of 183,000 tonnes per ty is of a scale that is significant proportion of s of electricity to meet an apable of producing heat for gement terms this is a leliver that benefit the site

e the advantages of the accommodate a larger of site size and land Portland site has a distinct ale facility with the benefits

f smaller volume sites, and vould in practice be able to ctual solution to Dorset's

gether with other Strategy Report) explain upply to Portland Port to the comparative over other allocated sites,

tricity to the port for shore on the Dorset mainland do cational advantage is in not possess that d be suggested as an ery specific circumstances eet a specific Portland ergy need and contribute s conversely can only

to local heat users is a District Heating Paper) and benefit from opportunities ealistically achievable at s.



Item	Торіс	Summary of consultation comment	Applicant response
2.16	DWP allocated sites assessment – flawed exercise	Page 5 In summary the comparative assessment exercise is flawed and the Applicant has not met the requirements of criterion 'A'.	As set out in responses above to the comments made on the asses comparative assessment exercise is sound, robust and the comme individual criteria are either entirely unfounded and/or would make r outcome of the assessment, which concludes that the Portland site over the DWP allocated sites.

essment criteria, the ents made in respect to no difference to the e has significant advantages



# 3. The fall back scheme

#### Other consultees

Item	Торіс	Summary of consultation comment	Applicant response
	Adams Hendry (on behalf o	f SPWI)	
3.1	Consented scheme – fall back position (consented energy plant)	Paragraphs 2.48 and 2.49 In October 2019, Dorset Council issued a Certificate of Lawful use or Development confirming that the 2010 permission had been lawfully implemented and the consent remained extant. No information has been provided on the position of the accompanying listed building application (ref 09/00648/LBC). Further information is required on the implications of the listed building application on the purportedly extant consent. If the listed buildings application has lapsed, it is questionable as to whether the consent approved under 09/00646/FULES is in fact implementable.	Dorset Council's position is that the relevant consents have been in material start on site and that the permission is extant. The applicar permission to construct the proposed ERF. However, the planning energy plant fueled by vegetable oil and/or waste tyres and the sub Lawful Development together confirm the principle of locating an er allocated brownfield industrial port location.
3.2	Consented scheme – fall back position (likelihood of implementation)	Paragraph 2.50 On the assumption that the applications are extant, the likelihood of them being implemented is low given the passage of time that has elapsed since consent was issued. Whilst any extant consent is capable of being a material consideration, limited weight should be attached to it in these circumstances.	Dorset Council's position is that the relevant consents have been in material start on site and that the permission is extant. This is not a the extant consent could theoretically be implemented at any time ( conditions were to become more favourable), and the period of tim was granted is irrelevant in terms of the degree of weight that shou extant consent continues to act as a precedent demonstrating that suitable in principle for an energy plant use with waste derived mate similar nature to the proposed ERF. Accordingly, this should be affec the decision making process.



mplemented through a nt is now seeking planning permission granted for an osequent Certificate of nergy recovery facility in this

mplemented through a an assumption. Furthermore, (for example if market ne passed since the consent ald be attributed to it. The t the site has been deemed erial as a fuel, and of a orded significant weight in

# 4. Combined Heat and Power (CHP) - District Heating

Other consultees

Item	Topic	Summary of consultation comment	Applicant response
nonn	Topio		
	Adams Hendry (on behalf o	f SPWI)	
4.1	Provision of CHP	Paragraph 2.23 The proposed ERF does not include provision for CHP	The ERF is specifically designed to provide both heat and power and will be equipped to deliver CHP, through the provision of electricity to the shore power facility and/or the wider electricity distribution network and energy in the form of heat to a district heating network. The proposed ERF does make provision for CHP. Discussions have been advanced with local creditworthy off-takers but, as outlined in the District Heating Paper, it is not logical or market practice to advance the technical or planning considerations for a CHP scheme where the energy source required is subject to planning approval. We further note that other allocated sites do not have the potential to provide heat to off-takers with a similar volume demand, or the financial standing to support the upfront capital investment required for a district heating network and therefore the potential to actually deliver
			CHP at Portland should positively impact the consideration of the Portland site relative to other DWP allocated sites.
4.2	District heating network – likelihood of implementation	Paragraph 3.6 Much is made of the potential of the proposed ERF to provide heat however the district heating network does not form part of the application and therefore limited weight should be given to this potential	The ERF is designed to enable connection to a local heat network (district heating – DH) and therefore makes provision for CHP. Few, if any, similar facilities in the UK directly provide the local heat network together with the ERF facility at planning stage, but instead are designed to connect to the heat network when that is provided. It has been demonstrated through the Heat Report, Planning Statement and Environmental Statement that there are identified heat customers near the site with significant heat demands, that have already expressed interest in joining a network as and when this is delivered. They also have the financial standing to enter into long term contracts for offtake to support the upfront capital investment.
			CHP, or that the weight to be applied to the benefits of district heating should be reduced simply because it does not form part of the ERF application. The Portland ERF will be CHP equipped from the outset and there is a high probability that the district heating network will be delivered because of the environmental policy and financial incentives to do so, coupled with the absence of any technical or environmental constraints that would preclude its delivery. On that basis the potential for supplying a district heating network should be afforded great weight.
4.3	District heating network – impact of terrain	Paragraph 3.7 Not only does the heat network not form part of the planning application, it is unclear how it could be connected to HM Prison The Verne given the terrain.	Further supporting information has been submitted through the District Heating Strategy Paper, that demonstrates that the district heating network is fully deliverable and viable in policy, technical and financial terms. In respect to terrain the report provides an indicative route between the ERF and the two prisons, utilising existing road corridors (which already provide a conduit for other utilities and services). As such terrain is not a constraint to implementation of the heat network infrastructure. The ES Addendum has also concluded that there are no overriding environmental constraints.



# 5. Electrical generation and distribution

Other consultees

Item	Торіс	Summary of consultation comment	Applicant response
	Adams Hendry (on behalf o	f SPWI)	
5.1	Method of connection to the grid network	Paragraph 3.8 The ES sets out the route of the grid connection, but no information is provided on how this grid connection will be constructed. Bearing in mind that 4.5ha of the application site relates to the cable routes, this is a significant omission. It is not clear whether the cables will be buried or whether they will be overground or what, if anything, has been assessed in relation to the grid connection. Further information is required.	The grid connection will comprise a new cable that will be buried by highway similar to other utilities infrastructure. The potential environ been considered in the ES and the impact is not deemed to be sign effects would be temporary during the construction phase. Further Grid Connection Paper submitted as further information in connect letter.



Deneath the existing public nmental effects of this has gnificant. Any potential r details are provided in the tion to the council's request

# 6. Shore power

Other consultees

Item	Торіс	Summary of consultation comment	Applicant response
	Adams Hendry (on behalf o	f SPWI)	1
6.1	Cruise liner visits - impact of Covid 19 pandemic on expected cruise liner visits	Paragraph 3.10 The coronavirus pandemic has had a significant impact on the cruise industry, with services suspended for much of 2020. The anticipated rise in cruise ships docking at Portland Port is therefore highly unlikely in 2020/21. The long-term effect of the pandemic on the cruise industry is not known at this stage, but a 58% rise in cruise ships calling at Portland Port by 2025 seems highly improbable. Further justification is required to support these assumptions before the benefits of shore power for the cruise industry can be given any weight in the decision-making process for the ERF.	The figures for cruise ship calls were provide by the Port and the back described in the application documentation. Whilst the Covid 19 para impact on the cruise industry, this has had a temporary impact. restrictions a number of cruise liners were berthed at Portland Port and could have benefitted from the provision of shore power had it Looking ahead, Portland Port has confirmed that, post easing of Corcuise industry has seen a surge in bookings with the port hosting 5 2021 and a further 66 visits planned for 2022 – in each case number those used in the shore power and socio-economic modellings for the second
6.2	Cruise liner visits – proportion of cruise visits benefitting from shore power	Paragraph 3.11 Only half of cruise ships have the facilities for connecting to shore power. As some cruise ships may call into Portland Port more than others, it is not possible to determine what proportion of calls to Portland Port would benefit from shore power. Further information is required.	The figures for cruise ship calls were provide by the Port and the back described in the application documentation. The information provide expectation of its cruise liner business. It is expected that the number (equipped with shore power) visiting Portland will increase over time with in-built shore power capability and older ships are refitted and capability. Irrespective of the actual proportion of cruise liners visiting power capability, the provision of Shore Power facilities at Portland UK's Clean Maritime Plan objectives and comply with recent Gover 'Decarbonising Transport'.
6.3	Cruise liner visits – number and duration of stay of large ship visits	Paragraph 3.12 The maximum demand for electricity is only likely to be reached when a large cruise ship is docked. In order to understand the benefits of this shore power, information is required on the number of occasions a large cruise ship has docked over the last year, and the duration of the stay.	The figures for cruise ship calls were provide by the Port and the bar described in the application documentation. The information provide expectation of its cruise liner business and is further supplemented report.
6.4	Royal Fleet Auxiliary –Royal Navy contract, number and duration of RFA ship docking.	Paragraph 3.13 No information is provided on what proportion of calls to the port are made up of RFA ships. Section 5 of the report suggests that Portland Port's contract with the Royal Navy provides for RFA ships to be docked 'for a large proportion of days per year'. This is particularly ambiguous. Further information is required on the length of the contract with the Royal Navy and on the number of ships likely to be docked at Portland Port per annum and the likely average duration of their stay.	As would be expected the Port's contract with the Royal Navy is configures for RFA ship calls were provided by the Port and the basis for described in the planning application documentation. For assessminumber of days that RFA ships will be docked at the Port is 260. Portland Port has confirmed that this is a highly conservative figure years the number of berth days has typically been 20-30% higher the provision of shore power will only make Portland a more attractive of Navy given the UK Government's drive to reduce emissions from the activities.
6.5	Cruise liner visits – loss of visits due to absence of shore power	Paragraph 3.14 The applicant states that there is a risk to the port if shore power cannot be provided and that it will potentially reduce the number of cruise ship visits. This statement is unsubstantiated and goes against the forecast increase in cruise ships visits suggested, which are predicted in the absence of shore power.	The Port is seeking to attract more cruise liner visits to Portland and benefit for Portland and the wider Dorset area, from growth in the of However, the cruise industry recognises that it must also make a sign reducing its carbon footprint. Its customers are increasingly aware of demanding that action be taken to improve its environmental crede cruise industry is looking for ways in which it can demonstrate a red



asis for the numbers is as andemic has inevitably had During the Covid for longer periods of time been available. ovid 19 restrictions, the 54 cruise passenger visits in

ers that are in excess of the planning application.

ion made by the report ill only mean that Portland

asis for the numbers is as ded is the Port's ber of cruise liners e as new ships join the fleet retrofitted with shore power ng Portland with shore will clearly support the rnment strategies such as

asis for the numbers is as ded is the Port's in the revised Shore Power

onfidential. However, the for the numbers is as nent purposes the assumed

and that in the last few han this figure. Again, the destination for the Royal ne HMG estate and

d secure greater economic cruise sector.

ignificant contribution to of climate concerns and are entials. In response the duction in carbon and other

Item	Торіс	Summary of consultation comment	Applicant response
			emissions to the atmosphere. The ability to connect to shore power ports are being asked to provide this facility. This demand will increa have a choice of destination and port and the availability of shore po- increasingly important in continuing to attract cruise liners to Portlar commercial organisation which must compete on the global stage f remain competitive and if it cannot provide what the industry require lose business to other ports.
			Whilst the Port is aiming to increase ship visits the absence of shore reduce cruise ship calls in the future. Therefore, the predicted increa to be sustained over future years if the Port cannot meet the require Power.
6.6	Deliveries of RDF fuel by ship	Paragraph 3.15 The ES suggests that in respect to ships bringing RDF fuel to the site, the onboard engines would only be used during the transportation and manoeuvring into the docks and that smaller auxiliary engines would be used when the ship is docked requiring minimal power consumption. This suggests that they would not benefit from the proposed shore power solution.	Shore Power is not provided to the primary quay where waste is int should be noted that the Port Authority will use various quays on the response to wind/tide conditions. The fuel supply ships are relatively small in terms of power requirem docked for a short period of time (a few hours) and it has never bee Power would be made available for these vessels. The benefit of Sh larger cruise liners and RFA shipping that will be in dock for longer p will have significantly greater power demands.
6.7	Number of visits of cruise ships and RFA ships	Paragraph 3.16 Very little weight should be given to the benefits of shore power unless further credible information can be provided on the number of calls by cruise ships and RFA ships.	Disagree. The figures for ship calls were provided by Portland Port, numbers is as described in the planning application documentation numbers used for modelling purposes is highly conservative. The ir business provided in the original application was the port's expecta business and updated confirmations from the port evidence that the expectation of a deterioration in cruise vessel business is not being evidence submitted confirms that Shore Power will be of great bene safeguarding cruise liner visits in future and the contribution these m sector (spend and related jobs) and reducing emissions to air from s carbon) that result in an overall improvement in general air quality fo existing pre-ERF position. Contrary to this comment, the provision of associated environmental and economic benefits should be afforded planning balance.

# er is one such measure and pase further. Cruise liners power will become nd. The Port is a for its business. It must res it will simply begin to

e power is expected to pase in ship visits is unlikely ement to provide Shore

tended to be unloaded, it ne Port at their discretion in

nent and would only be en claimed that Shore hore Power is related to periods of time (days) and

t, and the basis for the n. As noted above the nformation on cruise liner ation of its future cruise he report authors' realised in practice. The efit in respect to make to the local tourism ship exhausts (including or Portland, relative to the of Shore Power and its ed substantial weight in the



## 7. Design and materials

#### Statutory consultees

Item	Торіс	Summary of consultation comment	Applicant response
	Dorset Council Landscape	•	•
7.1		Two reservations over the use of PVC mesh: a. Durability of the PVC mesh. b. The main concern with the building treatment is the use of a 'printed image of the green wall to replicate the vegetation and tones.	Further information in respect to durability and environmental perforespect to external cladding material in the DAS addendum. The Das potential alternative approaches to the use of a printed photograph potential use of camouflage patterns.
			Further discussion will be held with officers to consider the most ap including use of samples and further information on durability and r be controlled by means of condition.

#### Other consultees

•-			
Item	lopic	Summary of consultation comment	Applicant response
	Adams Hendry (on behalf of	of SPWI)	
7.2	Use of profiled cladding and printed PVC mesh	Paragraph 3.2 The PVC mesh will not reflect any seasonal changes in the surrounding vegetation, it will still represent an alien feature in the landscape.	The type of vegetation at Portland is not of a type that demonstrate change and the approach is intended to enable the facility to blend landscape, rather than become invisible. The proposed PVC mesh potential option, however other options exist such as the use of prin adoption of relevant camouflage patterns that will be capable of ref variation. Further information is provided in respect to external cladding mate
7.3	Durability of the printed PVC mesh	Paragraph 3.3 It is not clear how well the PVC mesh will weather overtime. Evidence is required to demonstrate how this will work in practice and assurances given to ensure that any measures relied upon to mitigate landscape impacts can be secured in perpetuity. The long-term durability of this building treatment option needs to be demonstrated, preferably by showing that it has been successfully used on a building of this scale and in an exposed coastal location.	Further information in respect to durability and environmental perfor respect to external cladding material in the DAS Addendum. Furthe with officers to consider the most appropriate materials, including u information on durability and maintenance, and this can be controlled
7.4	Assessment of alternative options	Paragraph 3.4 As the proposed building treatment is critical to the mitigation of landscape and visual impact, if the long-term durability cannot be satisfactorily demonstrated, then an assessment should be undertaken of an alternative option or without the PVC mesh in place.	Further information in respect to durability and environmental performed respect to external cladding material in the DAS Addendum. Irrespect and visual assessment has considered the effects of the development approach using the PVC mesh or similar materials to achieve the set



rmance is provided in AS Addendum considers n of the backdrop, including

opropriate materials, naintenance, and this can

es significant seasonal d into the receiving has been suggested as a inted cladding and the flecting any seasonal

erial in the DAS Addendum.

rmance is provided in er discussion will be held use of samples and further led by means of condition.

rmance is provided in ective of this the landscape ent based on a design ame camouflage effect.

# 8. Air quality

#### Other consultees

Item	Торіс	Summary of consultation comment	Applicant response
	Ministry of Justice		
8.1	Air quality - Impacts on staff and inmate health	<ul> <li>The MoJ is naturally concerned about the potential effects on its staff and inmates. Specifically, the concerns relate to reduced air quality from the facility's emissions and increased traffic.</li> <li>Having reviewed the application submission and supporting Environmental Statement (ES), the MoJ questions the robustness of the assessment of likely air quality effects, including cumulative effects.</li> </ul>	Updated analysis has been provided to the MoJ, noting that the analosis conservative set of assumptions that any occupant would be preserved risk relating to the operational of the Portland ERF for the addition, in response to the regulation 25 request further detailed m out to quantify the impact of the emissions from engines on board s connected to shore power as a result of the proposal. Ships are a so of nitrogen, sulphur dioxide and particulate matter.
		It is apparent that the ES does not consider all the likely air quality effects of the development in combination and against a reliable baseline of existing air quality. As such, the current analysis may have significantly underestimated the likely impacts on air quality in the local area and in turn the potential effects on the human health of nearby residents and occupiers, including those residing and working at HMP The Verne.	The updated analysis concludes, consistent with the original submit impact on occupants at HMP The Verne would be negligible. We n England responded to the original analysis, confirming the modelling used were in line with UK guidance and good practice and further th approach taken was conservative, but not over-precautionary in term assessing the potential risks.
			HMP The Verne is located away from any major roads and as such concentrations are similar to background concentrations. DEFRA has background concentrations on a 1km2 grid across the UK for key p monitoring is not available. This has been produced from models of include the port) and validated against background monitoring sites Verne is away from main roads the use of this data set to describe b appropriate. For other pollutants not included in the DEFRA mapped very conservative estimates have been made of the likely concentration monitoring networks.
			The dispersion modelling calculate the impact of the process emissi impact was then compared to the Air Quality Assessment Levels se human health which have been set by the Environment Agency bas understanding of the health effects of each pollutant. Additional mod determine the impact at specific receptors to support the EP applica receptor (R4) to represent HMP The Verne. This has been included results at discrete receptors) to the ES Addendum.
			The modelling assumed the ERF operates for the whole year and commissions at the emissions limits, both of which are conservative as show the impact of emissions of the ERF at HMP The Verne is very is 1.8% above baseline levels and the increase in $PM_{10}$ and $PM_{2.5}$ in 0.2%. This level of impact is determined as being "negligible" using guidance from the Institute of Air Quality Management. As a further the impact on health has been carried out which considered the over from the ERF on health. This concludes that the carcinogenic and n risks associated with the Portland ERF are deemed to be negligible no impact on the mental wellbeing for occupants at HMP The Verne
			If the impact of Shore Power is included in the analysis, then this ge improvement in air quality relative to the position today. The analysi assumptions basing the modelling on a lower berth days than is exp assuming that vessels are fairly modern (with newer vessels having lengines).



alysis assumes a highly ent and exposed to any e full operational life. In nodelling has been carried ships which would be significant source of oxides

itted analysis, that the note that Public Health ig and assessment criteria that it was satisfied the rms of approaches to

n it is likely that baseline has produced maps of pollutants where baseline f key sources (and would s. Given that HMP The baseline concentrations is ed background datasets ations from UK wide

sions from the ERF. The et for the protection of sed on the scientific odelling was carried out to cation this included a as Appendix 3.3 (Modelling

continually releases ssumptions. The results / small – the increase in NOx h both cases being less than g industry standard measure an assessment of rerall impact of emissions hon-carcinogenic health and that there should be be or HMP YOI Portland.

enerally results in an sis again used conservative perienced in practice and lower emissions than older

Item	Торіс	Summary of consultation comment	Applicant response
			The modelling (ERF with Shore Power) demonstrates that there wo associated with the proposed development in all areas. This is been be emitted from the engines on board vessels if they were connect nitrogen dioxide, there is a net benefit for the majority of the area. V increase, the increase is extremely small (0.05 µg/m3 at the point of which can be compared with current background concentrations of sulphur dioxide, there is a net benefit for the majority of the area. W the increase is extremely small (0.05 µg/m3 at the point of greatest can be compared with current background concentrations of arour
			As a further measure an assessment of the impact on health has be considered the overall impact of emissions from the ERF on health impact of Shore Power. This concludes that consideration of all im overall beneficial effect on health.
	Public Health Dorset	·	·
8.2	HIA – health effect of emissions and risk	The Health Impact Assessment states that: 'The Human Health Risk Assessment (HHRA) has concluded that the health effects associated with emissions of NO2, SO2, PM10 and PM2.5 from the ERF are shown to be very small and could reasonably be described as negligible.' It should be noted that this does not mean that there will be no impact on human health associated with emissions from the operation of the proposed development. In 2013 the World Health Organisation (WHO) concluded that 'there is no evidence of a safe level of exposure to PM (particulate matter) or a threshold below which no adverse health effects occur'. The proposed development, and associated increased traffic and transport, will lead to increased exposure of the local population to this pollutant, and others, even if they are, as the applicant asserts, 'very small'	Further information, which addresses these comments, is provided the Human Health Risk Assessment (HHRA) and Health Impact Ass to the ES Addendum.
8.3	Emissions from shipping – evidence of potential health benefits	The application refers to the potential for the proposed development to provide 'shore to ship' power for vessels in Portland harbour. The applicant highlights that this would lead to a reduction in emissions levels by negating the need for vessels to use their own engines for power while in harbour. Providing a means of reducing emissions from vessels in Portland Harbour would, in principal, be beneficial but as detail of the current impact on air quality of this source is not provided it is not possible to understand the degree of potential benefit. We would welcome baseline information on emissions levels and health impacts of vessels in Portland Harbour, and modelled data on how the proposed development would reduce overall emissions levels.	The original submitted ES concluded that the impact of the ERF op negligible to air quality and human health. The provision of Shore Per reduction in impacts of existing emissions from vessels docked in p be using onboard engines to provide power which generally results quality and human health, relative to the existing position. The origin qualitative analysis explaining that an additional benefit would be the from onboard engines. A separate technical note to the ES Addendum has been provided in the ES Addendum. This confirms the qualitative analysis set out in Further information, which addresses these comments, is provided to air quality assessment], Human Health Risk Assessment (HHRA) Assessment (HIA), appended to the ES Addendum.
8.4	HIA – recommendations and communication of impacts	The Health Impact Assessment (HIA) included in the application emphasises the need to consider the impact of the proposed development on both physical and mental health. As the community profile in the HIA notes, the site is located within a community characterised by higher levels of deprivation than much of Dorset, and a population that experiences worse outcomes than Dorset's wider population across a number of health indicators. This includes levels of depression higher than the England average with 22.9% of adult primary care patients in Weymouth & Portland living with depression. The site of the proposed development is also, as detailed throughout the application, unique in its topography and built environment. For example, the site's near sea level location would result in the proposed stack	Further information, which addresses these comments, is provided the Human Health Risk Assessment (HHRA) and Health Impact Ass to the ES Addendum.

uld be a net benefit cause emissions would not red to Shore Power. For Where there is a net of greatest increase on land), of around 22 µg/m3. For /here there is a net increase : increase on land), which and 2 µg/m3.

een carried out which taking into account the apacts would lead to an

I in the submitted update to sessment (HIA), appended

berating was deemed to be Power would result in a port which would otherwise is in an improvement to air pinal ES included a the offset of the emissions

and the results discussed in the original ES.

l in the submitted additional ) and Health Impact

I in the submitted update to sessment (HIA), appended



Item	Торіс	Summary of consultation comment	Applicant response
		terminating below the height of nearby residential areas. With these observations in mind, the recommendations of the HIA (paragraph 7.2) are generally welcome, but we recommend that the applicant extends their intention to 'communicate the findings of the Air Quality Assessment' (as a means of allaying public concern) to encompass communication to the community of how assessment of the potential impact of the development on air quality during construction and operation has taken account of the specific characteristics of the site (e.g. topography, weather conditions etc) prior to determination of the application.	
8.5	HIA – potential impact on physical and mental health and well being.	The HIA includes an assessment of the potential impacts of the proposed development on vulnerable groups and health inequalities. The proposed development is sited in close proximity to neighbourhoods which are among the 10% most deprived in England. Research demonstrates ongoing inequalities in exposure to air pollution, with deprived areas worst affected by high concentrations of particulate matter and nitrogen dioxide. Given that the proposed development has the potential for cumulative adverse impacts on the physical and mental health and wellbeing of the local population, potentially exacerbating existing health inequalities, we would welcome more detailed consideration of the likely impacts and mitigations. It is not clear whether the applicant has specifically considered the potential impact of emissions on the resident population of HMP Verne, and to a lesser extent, HMP/YOI Portland. Prisoners face particular challenges to leading healthy lives[4] and, in comparison to the wider population, are more likely to be exposed to any emissions associated with construction and operation of the proposed development. We would suggest that the applicant clarifies how they have taken account of 'static' prisoner populations.	Further information, which addresses these comments, is provided in the Human Health Risk Assessment (HHRA) and Health Impact Asse to the ES Addendum.
	Adams Hendry / Air Quality	Consultants (on behalf of SPWI)	
8.6	Exclusion of on-site emissions – back up diesel generators	Paragraph 4.1 Part B Air Quality Paragraph 2.1 The only emission sources considered in the assessment are the main exhaust stack <sup>1</sup> . It is routine practice on schemes such as this to include a backup source of electrical power in order to avoid major accidents during emergency shut down. This is typically achieved by including diesel generators. The proposed Scheme appears to be no exception, since paragraph 2.19 of the ES clearly states that a diesel fueled standby generator will provide electricity during grid outages. Standby diesel generators require regular operation in order to ensure their continued function, and given the importance of ensuring an emergency back-up power supply, it is common practice for generators to thus be run periodically While no details of these on-site emission sources has been given, experience of sufficiently-sized diesel generators elsewhere has shown that they can give rise to very high levels of nitrogen oxides (NOx) emissions; particularly if plant are used which are not fitted with Selective Catalytic Reduction technology. The emissions can be sufficient that even just periodic testing (for example for 30 minutes every two weeks) can, when added to other onsite emissions, affect the outcomes of an assessment3. Similarly, while no details have been given as to the release height of the generator exhausts, unless they are routed to the top of the main exhaust stack (which seems unlikely given the position of the generator shown in Figure 2.3 of the ES) the plumes from the generators will be subject to less effective dispersion than has been modelled. This means that the impacts, per mass of NOx	Diesel generators will only be used when the main plant is offline and available from the grid to provide the power for the site. The probabil is very low and if this does occur it would only be for a short period v offline. It is acknowledged that the diesel generators would be tested testing would only occur for approximately 30 minutes every 2 weeks is less than 0.2% of the time that the main plant would be running. E times larger than for the main plant, this would only be 1% of annual would be shorter, the impacts would occur in different locations so t significant difference to local impacts. The diesel generators are also of the main building with a short stack. Therefore, the building would minimise the impact of emissions from the diesel generators at areas both humans and ecology. The ES Addendum includes additional cla The inclusion of the operation of the back-up diesel generators would conclusions of the assessment that "the impact on air quality is not s

<sup>&</sup>lt;sup>1</sup> Furthermore, Chapter 8 of the ES (Paragraph 8.4.17) specifically states that: "The only source of process emissions from the Proposed Development would be from the AAERF".

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Item	Торіс	Summary of consultation comment	Applicant response
		emitted, are likely to be much higher than those of the main stack (in other words, even though the total annual NOx and particulate matter emissions from the diesel generators are likely to be much lower than those from the main stack, their impacts will be disproportionate).	
		By excluding the emissions from diesel generators from the assessment, the impacts of the scheme will have been underpredicted.	
8.7	In-combination impacts – traffic and process emissions	Paragraph 4.2 Part B Air Quality Paragraph 2.1 The combined impacts upon the SACs of additional traffic due to the scheme, with stack emissions have been considered, as set out in Section 6 of Appendix D3 of the ES. Therefore the 'in-isolation' impacts of these two aspects of this scheme have been considered. However, these results do not take into account the 'in- combination' traffic impacts with other plans and projects. In order to address this, the impact of additional traffic generated by the identified cumulative schemes should have been modelled with the additional traffic due to the Scheme, the resultant concentration added to the PC, and this value compared with the 1% screeping criterion. If this had been carried out, the areas of the SACs where	This has been addressed as part of the ES Addendum. A separate produced which includes transects showing the impact of emission the Isle of Portland to Studland Cliffs SAC and Chesil and The Fleet been fed into the Shadow Appropriate Assessment.
8.8	Use of spatially averaged	impacts could not be screened out as insignificant would be much larger. Paragraph 4.3	In terms of the impact on human health: a spatially averaged backg
	background values	Part B Air Quality Paragraph 2.7 to 2.11 The use of spatially-averaged background values to represent location specific baseline values is not appropriate where there are significant localised sources of emissions within the study area, for example, when predicting concentrations alongside roads or near to areas affected by ship emissions. This under-prediction of the local baseline has the potential to affect the overall conclusions of the air quality assessment. Where the assessment has predicted total ambient concentrations (Predicted Environmental Concentrations or 'PECs') this has been done by adding the increment from the Scheme (the PC) to spatially-averaged background values. This is appropriate for those pollutants which, without the Scheme, are expected to be relatively spatially homogenous. It is not appropriate where there are significant localised sources of emissions within the study area; for example when predicting concentrations alongside roads or near to areas affected by ship emissions Failure to do this will have led to a large under prediction of the PEC alongside roads, especially the A354 alongside the Chesil Beach SAC and to a lesser extent at the Isle of Portland SAC near Castletown (which will also be influenced by ship emissions). In this area, the total modelled roadside concentrations from all traffic using the road (from ADMS-Roads) should have been added to the spatially- averaged background values, to derive an appropriate 'baseline' value to which the additional concentrations due to the scheme and other plans and projects should have been added to calculate the PEC. Given that there are sections of the Chesil Beach and Isle of Portland SACs alongside roads where the 1% screening criterion is exceeded, it is important that the PEC is calculated correctly. This under-prediction of the local baseline has the potential to affect the overall conclusions of the air quality assessment, and it is reasonable to expect the applicant to have assessed it robustly.	used and then where the impact is predicted to be greater than 0.5 consideration made to the choice of baseline concentration. This ind whether the mapped background data was suitable for the area in a consideration was included on the potential for the choice of baseline of the assessment. In terms of impacts on ecology, the ecological sites which are close be an issue are Isle of Portland Cliffs to Studland Cliffs SAC (and Isle Chesil and The Fleet SAC, SPA and Ramsar. A separate technical r which includes transects showing the impact of emissions from road Portland to Studland Cliffs SAC and Chesil and The Fleet SAC. The into the Shadow Appropriate Assessment. The dispersion modelling included the contribution from baseline traffic emissions and mapped Although the port operations have not been specifically modelled at contribution from the port is likely to be similar to the mapped background background have referenced Section 6 of Approximate Assesting the original shadow HRA should have referenced Section 6 of Approximate Assesting the original shadow HRA should have referenced Section 6 of Approximate Assesting the assestion for the assesting the assesting the original shadow HRA should have referenced Section 6 of Approximate Assesting the assesting the assesting the original shadow HRA should have referenced Section 6 of Approximate Assesting the original shadow HRA should have referenced Section 6 of Approximate Assesting the assesting the original shadow HRA should have referenced Section 6 of Approximate Assesting the assesting the assesting the original shadow HRA should have referenced Section 6 of Approximate Assesting the assesting the assesting the original shadow HRA should have referenced Section 6 of Approximate Assesting the assesting the original shadow HRA should have referenced Section 6 of Approximate Assesting the assesting the assesting the original shadow the port original shadow the port original shadow the port originate the port originate the port originate the port originate the



technical note has been ns from road and the ERF at t SAC. These results have

ground concentration was 5% of the AQAL ncluded a discussion as to question. Therefore, ine to affect the conclusions

e to roads where this may le of Portland SSSI) and note has been produced ad and the ERF at the Isle of ese results have been fed g of these transects has ed background data. t the transects used the kground. As such the sessment.

endix D3 of the ES

Item	Торіс	Summary of consultation comment	Applicant response
		The extent of this underestimation is demonstrated by the results of nitrogen dioxide monitoring carried out on Portland by Weymouth and Portland Borough Council. The background value for the area, used to calculate PECs is 22 µg/m3, whereas the measured value at a roadside site on Portland in 2018 was 31 µg/m3. The concentrations used in the assessment are thus much too small to represent roadside conditions.	
		These values have fed through to the Shadow Appropriate Assessment which has underpredicted the PECs associated with the Scheme.	
8.9	Process contributions – traffic NOx and ammonia emissions	Paragraph 4.4 Part B Air Quality Paragraph 2.12 to 2.14 The Process Contributions (PC) included in the shadow Appropriate Assessment do not take into consideration NOx and ammonia emissions from additional traffic generated by the scheme. The omission of these values means that the shadow Appropriate Assessment has failed to consider the entire impacts of the scheme. Scheme-generated ship emissions have not been modelled at all, and neither road traffic nor ship emissions are included in the concentrations considered, contrary to what is claimed in paragraph 5.97 of the shadow Appropriate Assessment The Process Contributions due to the scheme quoted in the Shadow Appropriate Assessment are those due to emissions from the stack in isolation, which appear to be taken from Technical Appendix D2 of the ES. These values do not take into consideration NOx and ammonia emissions from additional traffic generated by the scheme. The correct values are shown, graphically, in Section 6 of Technical Appendix D3 of the ES. The omission of these values means that the Shadow Appropriate Assessment has failed to consider the entire impacts of the scheme. This is particularly important as the graphs in Section 6 of the Technical Appendix D3 of the ES suggest that even with the project in-isolation, the combined impact of stack emissions and additional traffic on NOx and ammonia concentrations, and nitrogen deposition upon the Island of Portland SAC exceed the 1% screening criterion being used. As no numerical values are presented, the information provided is insufficient to determine whether there is a risk that the PECs will also be exceeded. The conclusions based on this erroneous information have been copied into the Natural Heritage chapter (Chapter 10) of the ES and to the Shadow Appropriate Assessment Furthermore, paragraph 5.97 of the Shadow Appropriate Assessment states that, "road traffic emissions, and those generated by ships in scenarios which have deliveries from both road and sea, have been factored into the modell	The Shadow Appropriate Assessment has been updated to include of nitrogen and ammonia from emissions from additional traffic gen
8.10	Model grid resolution	Paragraph 4.5 Part B Air Quality Paragraph 2.15 and 2.16	The choice of grid has been selected to balance the computational the grid is suitable to capture the peak impacts. The grid resolution of 80m. It is common practice that the grid resolution is at least 1.5 which would be 120m by 120m. The chosen grid size is half this ar





Item	Торіс	Summary of consultation comment	Applicant response
		The use of a course grid to model impacts is likely to have caused the near-field and maximum impacts to have been under-predicted and thus there may be areas of the SAC where impacts are greater than presented in the ES. The modelling presents the maximum predicted impacts anywhere on the receptor grid. However, these maxima values are dependent on the grid resolution chosen. It is highly likely that greater impacts would have been predicted if a finer receptor grid had been used. The grid resolution used is 60 m x 60 m even close to the stack. This is a particularly coarse grid and it is common and best practice to use a much finer resolution than this close to an emission source. The topography in the vicinity of the stack is complex, with the nearby receptors being located level with or higher than the stack. This includes areas of the SAC, some of which are very close to the stack. Therefore the choice to use a coarse grid is likely to have caused the near-field and maximum impacts to have been under-predicted and thus there may be areas of the SAC where impacts are greater than presented in the ES.	be appropriate. Changing the grid resolution is not expected to cha assessment.
8.11	Stack height analysis and ammonia emissions limits	<ul> <li>Paragraph 4.6 and 4.7</li> <li>Part B Air Quality Paragraph 2.17 to 2.19</li> <li>It is not clear that the stack height is the optimum for minimising the adverse air quality impacts of the scheme as the effects of existing emissions from the road and shipping have not been quantified, and the combined effects of scheme-generated traffic, on-site diesel generator emissions, and emissions from the main stack have also not been considered.</li> <li>Section 5 of Appendix D2 details how the requirement for an 80 m stack was determined. The justification for an 80 m stack appears to be that most (but notably not all) impacts can, with this stack, be described as 'negligible' or 'not significant'. However, because the effects of existing emissions from the road and shipping have not been quantified, and the combined effects of Schemegenerated traffic, on-site diesel generator emissions, and emissions from the road and shipping have not been considered, it is not possible to make this assessment. As a result, it is not at all clear that the stack height chosen is the optimum for minimising the adverse air quality impacts of the Scheme.</li> <li>Section 5 of Appendix D2 also considers the effect of a reduced ammonia emissions limit of 8 mg/Nm3 (compared with a BAT level of 2-10 mg/Nm3). This, in conjunction with an 80 m stack, would avoid stack impacts of greater than 1% of the critical level at the Chesil Beach SAC. However, such impacts would remain at the Portland SAC. BAT states that emissions allow as 2 mg/Nm3 are achievable. However, in order to achieve this, selective catalytic reduction (SCR) is required, rather than selective non-catalytic reduction (SNCR) (direct injection of ammonia solution into the combustion zone) which is proposed in the ES.</li> <li>Considering the high sensitivity of the receiving environment, i.e., a European designated site in unfavourable condition, with nitrogen sensitive features and the potential for further nitrogen deposition to hinder recovery, there is insufficient in</li></ul>	The stack height assessment considered the operation of the plant that the stack height is appropriate for the building configuration. A appendix D2, the stack height was chosen based on the change in the Isle of Portland to Studland Cliffs. Including existing emissions f the diesel generators) would not change the justification of the stace As set out in Section 5 (Stack height assessment) of technical apper is sufficient to ensure that the impact of the plant is less than 1% of and the Fleet SAC where the baseline N deposition exceeds the Cr 8 mg/Nm3, the ammonia contribution at the Isle of Portland to Stud level at which the PEC remains below 70% of the Critical Level and the impact is deemed not significant. In addition, this comment der misunderstanding of emission limits. If the limit is set to 8 mg/Nm3, be lower than this; the modelling is specifically worst case. The lower limits of the relevant critical loads and levels for semi-nati scrubland facies: on calcareous substrates will not be exceeded if 1 The unfavourable condition of unit 33 is not due to nitrogen or amm supplementary advice on conserving and restoring site features for Studland Cliffs SAC notes that air quality for the qualifying features acceptable limits.
8.12	Combined impact with ship emissions	Paragraph 4.8 Part B Air Quality Paragraph 2.20	There will be periods whilst the ships are docking that the ship eng this would only occur for a short period (less than an hour). Figure shows the area where the contribution from the plant is greater tha

ange the conclusions of the



t in isolation to determine As set out in technical n the angle of the slope at from road and shipping (or ck height.

bendix D2, the ammonia limit of the Critical Load at Chesil Critical Level. In reducing it to udland Cliffs is reduced to a d therefore in both instances emonstrates a fundamental B, then actual emissions will

tural dry grasslands and the proposals go ahead. monia deposition. The r the Isle of Portland to are currently within

gines would be operating but 13 of technical appendix D2 an 10% of the Critical Level.

Item	Торіс	Summary of consultation comment	Applicant response
		Although there would only be an additional 2 ships per week as a result of the Scheme which would have a minimal impact on annual mean concentrations, there is potential for a combined impact of stack and ship emissions upon maximum 24-hour NOx concentrations. This is particularly important within the Portland SAC, as there is an area that could be directly downwind of both of these at the same time and thus impacts would combine. This issue requires assessment	Emissions from the ships would be at a much lower level than the plant and for the majority of the time these would be blown away from the cliffs. In the unusual event that the wind is from the north-east and blowing directly to the shore any emissions from the ships would impact at a much lower level than the stack emissions. On the lower flanks of the hill the stack emissions are <5% of the Critical Level, so including a contribution from ships (for an hour over a 24-hour period) would not significantly change the predicted impacts.
8.13	High-rise receptors	Part B Air Quality Paragraph 2.21 There are a number of tall residential buildings at the Ocean Views complex of Castle Road. The modelled grid would not have taken into account the height of these receptors. The modelled annual mean nitrogen dioxide concentration contour (labelled Figure 6.4 in Appendix D2) indicates that the stack is having an influence in this area. However, ground-level concentrations could be lower than those at upper floors and thus the impact will have been under-predicted.	The Ocean Views complex of Castle Road is located 1.2km to the west of the plant. Ground level concentrations were predicted to be well below 0.5% of the AQAL. Whilst the concentration could be greater at height the conclusions of the assessment would remain the same in that the impact would be not significant even at these elevated points. Additional clarification has been provided in the ES Addendum over the choice of receptors and impacts at specific receptors as requested by the EA as part of the EP determination process.
8.14	Traffic impacts on Portland	Part B Air Quality Paragraph 2.22 and 2.23 The Scheme would lead to an additional 72 HGV movements and 38 car (staff) movements per day. Whilst these traffic impacts fall below individual screening criteria for requiring detailed assessment (100 LDVs and 500 cars), these impacts would combine on Castletown which is very narrow, with receptors close to the kerb which means that annual mean nitrogen dioxide concentrations could be elevated. In addition, the impact of the stack on annual mean nitrogen dioxide concentrations appears to be only slightly less than 0.5% of the objective in this area (based on Figure 6.4 showing a small area above 0.5% just to the north of Castletown). Therefore, there could be the potential for the combined impact of stack emissions and those from additional traffic due to the Scheme to lead to a greater than 0.5% impact on annual mean nitrogen dioxide concentrations for residents of Castletown, which has not been quantified. Any consideration of impacts on Castletown and emissions from ships using the nearby berths. Figures 1 and 2 of Appendix D3 of the ES appear to show roads model receptors along Castletown and Castle Road but no reference is made to them in the report and no results are presented.	Additional information has been provided in the ES Addendum and associated technical appendices to confirm the in combination impact of process and road traffic emissions in Castletown. This shows that the in combination impact is not significant and the conclusions of the original ES do not change.
8.15	Stack impacts on Boot Hill	Part B Air Quality Paragraph 2.24 Paragraph 4.78 of the ES notes that the impact of emissions from the stack on receptors on Boot Hill would be 'miniscule'. However, this is not quantified. Taking into account that the maximum impact of emissions from additional road traffic in this area is 0.47% of the objective, and the screening threshold is 0.5%, a 'miniscule' impact could potentially alter the conclusions and thus further information should have been provided. This is particularly important as annual mean nitrogen dioxide concentrations on Boot Hill in 2018 were only marginally below the objective (measured concentration of 39.6 µg/m3 where the objective is 40 µg/m3).	Although not quantified in the ES it can be seen from Figure 6.4 that the contribution from the plant will be very small. The Boot Hill area was outside the initial modelling domain. However, it was captured in the wider modelling carried out for the health impact assessment. This predicted the contribution to be <0.06% of the AQAL. Therefore, this additional contribution would not alter the conclusions of the assessment.
8.16	Queuing traffic on Boot Hill	Part B Air Quality Paragraph 2.26 The model results presented for Boot Hill in Table 5 of Appendix D3 of the ES are significantly higher (up to 60 µg/m3) than those measured on Boot Hill (maximum of 39.6 µg/m3) and shown at the verification sites in Table 4. This suggests that the additional emissions due to queuing traffic have been added to the	The emissions due to queuing were included in the verification. Table 5 sets out the worst- case assumption that there is no change to the fleet composition from 2017 levels together with the increase in vehicle flows for the 2023 assessment year. The results presented in Table 6 are the more "realistic" scenario which assumes that the fleet mix changes in line with the projections.



Item	Торіс	Summary of consultation comment	Applicant response
		concentrations following verification. This approach is incorrect as queuing traffic will be having an influence on existing concentrations and thus should have been included in the verification process. Based on a comparison with measured values, this approach appears to have resulted in unrealistically high predicted concentrations on Boot Hill.	
8.17	Incorrect values in tables	<ul> <li>Part B Air Quality Paragraph 2.27 to 2.30</li> <li>There appear to be a number of incorrect values in Table 18 and 19 of Appendix D2 of the ES. For example, in Table 18, the background lead concentration is stated as 9.80 ng/m3, the PC 0.46 ng/m3 and the PEC 10.03 ng/m3. The PEC should equal the background plus the PC, but it this case it does not. A similar scenario occurs for lead in Table 19. In Table 19, the PCs presented for all metals are higher than the PECs, which is not possible.</li> <li>Table 22 of Appendix D2 states that the sulphur dioxide results are in ng/m3, whereas in Table 23 values 1,000 times higher are also stated to be in ng/m3.</li> <li>These errors highlight a lack of care that could be replicated in some other aspects of the model which it is not possible to review without the model inputs and outputs themselves</li> </ul>	There was an error in the calculation of the PEC in tables 18 and 19. of the assessment does not change. Table 22 of Appendix D2 should state µg/m <sup>3</sup> for sulphur dioxide resu The model inputs and outputs can be provided. However, each of th could have been calculated from other data in the report and identify errors does not undermine an entire assessment. These amendments have been made and updated tables provided a Addendum. These are minor transcription errors and do not undermi conclusions of the original ES do not change.
8.18	Offsetting ship emissions removed by shore power	Part B Air Quality Paragraph 2.31 Paragraph 4.64 of the ES states that, "it should be noted that no allowance has been made for the offset of emissions from shipping that will use shore power by ERF, which this development enables". This statement ignores that fact that no emissions from ships have been explicitly modelled (either existing or associated with the Scheme), so it would not be possible to 'offset' any of these emissions within the assessment as they have not actually been quantified.	The impact of the proposed development should be based on the im the waste, and the vehicles used to import and export material, which However, a major benefit of the scheme is that power would be provide currently operate onboard engines to provide power when they are d A separate technical note to the ES Addendum has been provided at in the ES Addendum. This confirms the qualitative analysis set out in
8.19	Non-residential receptors	Part B Air Quality Paragraph 2.32 Where process contributions exceed the screening criteria, consideration has been given to the maximum concentrations, 'at any point', 'land' and 'residential'. No explicit consideration has been given to non-residential receptors such as the cruise terminal or footpaths. However, in this case the maxima at 'residential' appear to be the overall maxima and therefore this would not alter the conclusions of the assessment.	Additional clarification has been provided in the ES Addendum over t and impacts at specific receptors as requested by the EA as part of t process.
8.20	Misquoted guidance	Part B Air Quality Paragraph 2.33 The Shadow Appropriate Assessment misquotes the Environment Agency's guidance. The statement is incorrect for two reasons. First, the guidance referred to states that where the PC is greater than 1% of the critical level and the PEC is more than 70% of the critical level, a detailed assessment is required. It does not explicitly state that it can be concluded that there would be no significant effect. Secondly, no specific reference is made to this being 'alone or in combination'.	The Shadow Appropriate Assessment considers the impacts of the p in-combination as required by the relevant Regulations. By inference, requiring a detailed assessment are likely to be able to be screened of significant effect. This is irrelevant to this application.
8.22	Crookhill Brick Pit SAC	Part B Air Quality Paragraph 2.35 Appendix D2 of the ES states that no further consideration is given to Crookhill Brick Pit because it is designated due to geological importance and thus not sensitive to air quality impacts. Whereas paragraph 4.82 of the ES states that has been designated for great-crested newts and 'while sensitive to air quality impacts,	Crookhill Brick Pits is covered by over lapping designations. It is notif biological and geological interest and designated as a SAC for great assessment of the biological interest of the site is covered in the shad assessment.

19. However, the conclusion
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f the points raised above tifying minor transcription
d as part of the ES rmine the assessment. The
impact that the burning of
rovided to ships which e docked.
d and the results discussed in the original ES.
er the choice of receptors of the EP determination
e proposals both alone and ce, those projects not d out as having no likely
otified as a SSSI for both at crested newts. The hadow appropriate



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		no critical loads have been set' and this is stated as the reason for no assessment of impacts upon the site. This inconsistency indicates a lack of care and lack of understanding of the ecological impacts.	
8.23	Correlation coefficient	Part B Air Quality Paragraph 2.37 Under Graph 5 in Appendix D3 of the ES it is stated that the "correlation coefficient is 1.5364". This is incorrect, as this value is shown on the graph as being the slope of the best-fit line, which is not the same as the correlation coefficient.	This point is agreed, but this does not change the conclusions of th
8.24	Overall air quality assessment conclusions	Part B Air Quality Paragraph 3.1 It is clear that the air quality assessment presented in the ES is inadequate. This is important because, even though insufficient consideration has been given to combined and cumulative impacts within the assessment, it has still identified potentially significant air quality impacts on the SACs. In addition, the Shadow Appropriate Assessment has been based on incorrect information. Impacts upon human health may also have been under-predicted.	The air quality assessment has provided sufficient consideration of process and traffic emissions associated with the proposed develo significant air quality impacts on the SAC were identified but this ha the shadow Appropriate Assessment.





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# 9. Carbon balance and greenhouse gas emissions

Other consultees

Item	Торіс	Summary of consultation comment	Applicant response
	Adams Hendry (on behalf o	f SPWI)	
9.1	Use of landfill as the comparator for carbon assessment	Paragraph 4.15 Landfill has been used as the comparator in the carbon assessment also. The justification for this as set out in paragraph 5.13 of the ES, is that the UK does not have enough ERF capacity to treat all residual waste so a considerable amount goes to landfill. For this assumption to be reasonable, it would need to be demonstrated that there is sufficient landfill capacity in the UK to treat all residual waste both now and for the next 25 years. This is highly unlikely to be the case as landfill capacity is decreasing across the country. This assumption is no more realistic than assuming all future residual waste is treated through ERFs.	Residual waste, being that which cannot be practicably recycled, ca or landfill. Therefore, comparing with landfill is realistic. If insufficient more landfills will be required.
9.2	Alternative carbon assessment scenarios	Paragraph 4.17 The applicants effectively dismiss the conclusions of the additional scenarios on the basis that any ERF currently processing residual waste from Dorset would need to secure waste from elsewhere and it is likely that the replacement waste will be currently going to landfill. No evidence is put forward to suggest that this assertion is reasonable. As a merchant facility, waste will be drawn from a wide catchment based on commercial terms.	The conclusions are not dismissed as the scenarios are fully consider paragraph 5.21 merely notes that there is insufficient ERF capacity in ERF plant will ultimately lead to a reduction in landfill. However, the revised Carbon Assessment includes a more detailed treatment methods for Dorset's waste with the proposed Portland E there is carbon benefit.
9.3	Alternative carbon assessment scenarios – Marchwood or Lakeside ERF	Paragraph 4.18 Sending RDF to the Marchwood ERF or Lakeside EfW has been considered on the basis that they are both used by BCP Council. Lakeside EfW shows a benefit over Portland ERF but this is dismissed on the basis that it does not take into account the potential benefits of exporting power to ships. Both the Lakeside and Marchwood plants export energy to the grid and so it seems disingenuous to suggest this electricity is less beneficial in reducing carbon, simply because it does not directly export its power to ships. Similarly, the potential benefit to provide heating is suggested as providing an added benefit for the Portland ERF. As the current proposals do not include CHP, it is no better than the plants at Lakeside or Marchwood.	This comment fails to appreciate that there is currently insufficient por the port to export power to ships. Hence, power generated at Lakeside and Marchwood, while benefic other power stations, cannot displace diesel engines used on ships. generating power at the port. The slight benefit of Lakeside over Poi the potential benefits of shore power need to be considered as well. CHP is greater at Portland.
9.4	Alternative carbon assessment scenarios – export to European ERF	Paragraph 4.19 Exporting waste to European ERF plants would have a carbon benefit over sending waste to the Portland plant as the additional carbon savings from heat displacement would outweigh the additional transport emissions. The applicant suggests that importing waste from the UK would result in other European waste being landfilled. Again, this statement is entirely unsubstantiated and therefore cannot be relied upon. It seems unlikely that European ERFs are all operating at capacity and would not be able to process an additional 200,000 tonnes per annum, the amount of residual waste proposed to be treated at Portland Port	According to data published by the European Commission <sup>2</sup> , in 2018 municipal waste was sent to landfill and 58 million tonnes was incine there is more than enough waste available to keep all of the ERF pla full capacity, which is the most economically sensible approach.

<sup>&</sup>lt;sup>2</sup> https://ec.europa.eu/eurostat/statistics-explained/index.php/Municipal\_waste\_statistics



n only be treated by ERF
ERF plants are built, then
ERF plants are built, then

dered. The statement in in the UK and so any new

d comparison of the current ERF and demonstrates that

oower capacity available at

ficially displacing power from s. This can only be done by ortland is not dismissed, but II. Similarly, the potential for

18 52 million tonnes of nerated. This suggests that lants in Europe operating at

Item	Торіс	Summary of consultation comment	Applicant response
9.5	Alternative carbon assessment scenarios – Dorset Waste Plan (DWP) allocated sites	Paragraph 4.20 The comparison with sites allocated in the DWP did not produce a favourable outcome for the ERF at Portland. Given the distances involved from the major centres of population in Dorset, carbon emissions associated with transporting waste by road would be greater than for the allocated sites. The applicants suggest that the advantages of a facility at Portland, namely the potential for district heating, shore power and the delivery of waste by ship, would outweigh this disadvantage. Again, CHP does not form part of the application so this should not be taken into account and as before, all sites would be capable of providing electricity into the grid, which could offset any additional electricity required by the Port. Whilst delivering waste by ship would reduce carbon emissions associated with road transport, it does not eliminate carbon emissions from transport. Depending on where the waste is being transported from (on the assumption that there will be an element of road transport to take the waste to the port), the carbon emissions may in fact be higher.	It is acknowledged that transporting waste to Portland would lead t from transport, but the supporting application documents have exp outweighed by the benefit of generating power at the port. As expla currently insufficient power capacity available at the port to export p outweighed by the ERF's ability to supply a district heat network will the District Heating Paper, is a viable and deliverable prospect give and economic drivers to do so, and the identification of the Ministry anchor network customer.
9.6	Alternative carbon assessment scenarios – do nothing	Paragraph 4.21 The continuation of Dorset's current waste management operations has also been considered. The applicant has not assessed this scenario in isolation, rather it assumes that additional commercial waste from within Dorset (in sufficient quantity to use up spare capacity at the proposed ERF plant) would be managed in the same proportions as Dorset's residual local authority collected waste. This would result in 82,000 tonnes of waste being sent to landfill. This assumption is not supported by any evidence. Further information is required on what proportion of commercial waste is currently landfilled in order to properly assess this scenario.	In Appendix E, it is explained that over 92,000 tonnes of commercial reported to be sent to landfill from Bournemouth, Dorset and Poole
9.7	Emissions from the transportation of waste	Paragraph 4.22 It is unclear how the emissions associated with the transport of waste have been calculated as no information has been provided on the source of waste. A one- way distance of 160km for waste to site has been used in the assessment, but no explanation is given for this figure. If this is a reasonable proxy for the distance waste is transported, it cannot be said to accord with the proximity principle. Similar distances are quoted for the transport of IBA and APCr to recovery.	Table 13 in Appendix E states that this is the maximum transport d conservative figure. In section 4.4.3 of Appendix E, it is noted that I an average of 55 km to the facility, emphasizing that 160 km is con Carbon Assessment, this distance is used when considering the tre
9.8	Carbon assessment - CHP	Paragraph 4.23 It is noted that the carbon balance and greenhouse gas emissions assessment has assumed that a heat network is constructed to supply the Osprey Leisure Centre, HM Prison The Verne, HM Prison Young Offenders Institute Portland and the Ocean Views development. As the supply of heat does not form part of the planning application and by the Applicant's own admission a heat network would only be implemented should a practical off-site local user be identified, there is no certainty that this will come forward and therefore it should not form part of the Environmental Impact Assessment. The carbon balance and greenhouse gas emissions assessment should therefore be disregarded.	The assessment has been undertaken both with and without the providing an estimate of the minimum beneficial effect if heat is not indication of the additional beneficial impact that could occur if hear potential alternative scenarios assessed). The facility, with the provision of Shore Power, has a carbon benefit identified UK based ERF options in both cases, with the benefit furt exported. The conclusion that there will be a significant beneficial e provided or not and it is incorrect to state that the assessment shore.
9.9	Carbon assessment – CHP and environmental effects from construction	Paragraph 4.24 If the Waste Planning Authority accept the carbon balance and greenhouse gas emissions assessment as submitted, the full environmental effects of the construction of the heat network must be assessed.	The Carbon Assessment provides information on the impacts with only assessed as a possible additional benefit that could occur if he future. In the unexpected event that heat was not provided the Por Power provision) would nevertheless outperform all other identified including landfill and other existing and potential ERFs.

to higher carbon emissions olained that this is ained above, there is power to ships. It is also which, as explained further in en the clear national policy y of Justice as a likely



al and industrial waste is

listance. It was used as a Dorset waste would travel nservative. In the revised eatment of Dorset's waste.

rovision of heat, thereby provided, together with an t is provided (one of several

it over landfill and all other ther increasing if heat is offect is valid whether CHP is ould be disregarded

out heat generation, which is eat is to be provided in tland ERF (with Shore UK processing options,

Item	Торіс	Summary of consultation comment	Applicant response
			However, as explained in the District Heating Paper there is a high I heating network will be implemented given the compelling economi drivers in effect and the likelihood that the Ministry of Justice would report identifies viable routes for the heat network to provide conne The Verne, HM Prison Young Offenders Institute Portland and other effects of constructing the network via these routes has been asses 25 ES addendum, in respect to potential cumulative effects. This has construction would not give rise to any significant adverse effects.
	UKWIN		I
9.10	ES – reference to Committee on Climate Change position	The applicant's ES contains a mischaracterisation of the position of the Committee on Climate Change	These comments are specifically addressed in the Fichtner technica (Appendix A to this document).
9.11	Biogenic CO <sub>2</sub> release incineration v landfill	There is a failure to account for differences in the amount of biogenic CO2 that would be released through incineration compared to landfill	These comments are specifically addressed in the Fichtner technica (Appendix A to this document).
9.12	Use of landfill as the counterfactual	There is a flawed use of 'sending waste untreated to landfill' as the waste treatment counterfactual	These comments are specifically addressed in the Fichtner technica (Appendix A to this document).
9.13	Use if CCGT as the energy generation counterfactual	Inadequate use of CCGT as the energy generation counterfactual.	These comments are specifically addressed in the Fichtner technica (Appendix A to this document).
9.14	Carbon neutrality and position on carbon capture and storage	The applicant's document entitled 'achieving carbon neutrality' does not actually demonstrate that the proposed facility would achieve carbon neutrality. Despite the applicant's claims, if approved, the proposed development appears likely to result in significant adverse climate impacts. Whilst the applicant notes the possible potential for carbon capture in section 6.311 of their Planning Supporting Statement, it should be noted that the planning application is for a facility without carbon capture. The applicant states in section 3.111 of their Planning Supporting Statement that they might not employ carbon capture technology on the grounds of economic viability. This implies that the applicant's stated ambitions for achieving carbon neutrality could be hampered by cost considerations.	As stated in the Planning Supporting Statement (paragraph 6.311) consider carbon capture and storage technologies as and when the economically viable. Since the submission of the planning application developments in respect to carbon capture and storage and it is kr is keen to explore options as to how existing and new ERF can apple technologies. At this time, carbon capture and storage is a prematu future provide an opportunity to further mitigate carbon emissions f working alongside heat and energy recovery. The ERF site at Portland has the significant advantage of being loca port. Potential exists to utilise existing port infrastructure for carbon transportation. As an emerging technology, carbon capture and storage scale they can be applied to existing and proposed ERF, where posthow the sector might be supported to stimulate the adoption of this potential exists. The Portland ERF is a project that has significant procepture and storage and is likely to attract interest from Government of economic support to realise this potential.
9.15	Counterfactual baseline	As noted in section 6.306 of the applicant's Planning Supporting Statement, the applicant anticipates that the counterfactual baseline against which emissions will be assessed is expected to initially be the same as that "broadly established in the Fichtner Carbon Assessment". That would not be an appropriate starting point.	As set out in the Fichtner technical response document (Appendix A counterfactual baseline (landfill) is appropriate as the UK does not h treat all residual waste, so quite a lot of residual waste goes to land the UK, this means that less waste overall will be sent to landfill and level, the correct comparator is landfill. This approach is supported specifically "Energy from Waste: A Guide to the Debate" and "Energy waste – A carbon based modelling approach" both published by D

likelihood that a district ic, environmental and policy I become a heat taker. The ections to the HM Prison or potential customers. The ssed through the Regulation as concluded that its

al response document

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Powerfuel is prepared to ese become technically and on, there have been further nown that the Government oly carbon capture ure technology but could in from waste management,

ated within a commercial capture, storage and orage is not technically phomic cost at this time oport. However, the develop technically to ssible, and is considering s new technology where otential to adopt carbon nt in terms of the provision

is provided in the Carbon

A to this document), the have enough capacity to ffill. If a new EfW is built in d therefore, at a national by national guidance, gy recovery for residual EFRA in 2014.



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9.16	Dynamic adjustment	Section 6.306 talks about "dynamically" adjusting the baseline to take account of changes such as a future ban on landfill, but does not explain how the impacts of the facility would be calculated were that to occur. The applicant similarly does not make it clear whether or not, once carbon capture becomes more widespread, the proposed dynamic adjustment process would result in incineration with carbon capture and heat export being used as the baseline against which the proposed development's GHG impacts should be compared.	The Applicant would agree the dynamic adjustments with the local a appropriate to determine the approach in advance, when future poli
9.17	Unaffordability of mitigation	It is also not explained what would happen in the event that the applicant considered any mitigation measures to be unaffordable, which we consider to be plausible given the level of emissions anticipated from the facility set out above.	See response to point 9.18.
9.18	Mitigation of full emissions of CO <sub>2</sub>	The global warming effects of CO <sub>2</sub> last for considerably longer than those for methane and some climate mitigation methods may take many years for their impacts to be seen. As such, to ensure net carbon neutrality it would necessary for the full emissions of CO <sub>2</sub> (fossil and biogenic) to be mitigated through contemporaneous reduction in CO <sub>2</sub> released from other sectors (that would themselves be likely to be reducing in any case on the route to Net Zero 2050) or the immediate removal of CO <sub>2</sub> , rather than just the relative net release of CO <sub>2</sub> e. Indeed, the measures set out at paragraph 6.309 of the Planning Supporting Statement appear to be the sort of measures one could expect to be occurring in the absence of the proposal as part of the move towards Net Zero 2050, and as such it is unclear what added value the proposed facility could offer throughout the 2030's and beyond.	The arguments made here appear to undermine carbon offsetting e not accept them and can only restate paragraph 6.310 of the plann "Objectors may question the validity of carbon off-setting and sugge not actually deliver on achieving carbon neutrality, or simply represe Such criticisms do not apply to this application because the applica- its net-zero commitment by entering into a legal agreement with Dor the proposed ERF does achieve carbon neutrality. Whilst the precise have yet to be determined, carbon neutrality will be achieved throug projects which may include those mentioned above, or sequestratio re-wilding off-site or otherwise the use of verified carbon credits suc Gold standard carbon credits by retail off-setters, or through suppor energy efficiency measures."
9.19	Cost estimates	No indicative cost estimates for mitigation or estimates regarding the profitability of the facility are provided to demonstrate that the operator would be in a financial position to pay for the full mitigation necessary to achieve carbon neutrality based on the costs of mitigating their plant's CO2e emissions based on: a) the applicant's own central assumptions, as set out in Chapter 5 of the Environmental Assessment; b) the sensitivity scenarios set out in Technical Annex E; c) the assumptions set out by UKWIN (e.g., accounting for biogenic carbon sequestration, lower grid factors, higher landfill gas rates, and/or using recycling as an alternative treatment option). d) a dynamic adjustment to the baseline based on changes in the generation mix feeding the UK grid (in line with the decarbonisation anticipated in the applicant's 'achieving carbon neutrality' report); e) a dynamic adjustment to the baseline based on increases in landfill gas capture rates (in line with the increase to 75% anticipated in the applicant's 'achieving carbon neutrality' report); f) a dynamic adjustment to the baseline based on landfill bans; and/or g) a dynamic adjustment to the baseline based on landfill bans; and/or g) a dynamic adjustment to the baseline based on landfill bans; and/or g) a dynamic adjustment to the baseline based on landfill bans; and/or g) a dynamic adjustment to the baseline based on landfill bans; and/or g) a dynamic adjustment to the baseline based on landfill bans; and/or g) a dynamic adjustment to the baseline based on landfill bans; and/or g) a dynamic adjustment to the baseline baseline based on landfill bans; and/or g) a dynamic adjustment to the baseline based on landfill bans; and/or g) a dynamic adjustment to the baseline based on landfill bans; and/or g) a dynamic adjustment to the baseline baseline based on landfill bans; and/or g) a dynamic adjustment to the baseline baseline based on landfill bans; and/or g) a dynamic adjustment to the baseline baseline baseline baseline baseline baseline ba	This is not a planning consideration.
9.20	Weight to be attributed to carbon neutrality measures	Given the significant deficiencies and uncertainties associated with the applicant's stated intention to achieve carbon neutrality and the absence of a draft planning condition or obligation, it is not surprising that the applicant is not arguing that any weight should be given to their proposed measures for 'achieving carbon neutrality' within the planning balance.	It is not clear why UKWIN chooses to mis-represent the Applicant's states, in paragraph 6.313 of the planning statement (our emphasis) "Given that the applicant is committed to funding additional carbon each year that the ERF reduces GHG emissions (compared to base the ERF increases GHG emissions (compared to the baseline) will compurchasing carbon offsets, the proposed plant will reduce GHG emis will achieve carbon neutrality, or better in every operating year. This positive weight in the planning balance."

authority. It is not
icy is not known.
ntirely. The Applicant does ing statement:
est that such proposals do ont a statistical exercise. In tis prepared to back up rset Council to ensure that e measures to be applied of supporting a number of on through tree planting or sh as those marketed as rting local community scale
position. The Applicant ):

n off-setting measures in eline), and in each year that compensate for this by nissions over its lifetime and **is should be afforded great** 


# 10. Economic effects and jobs

### Other consultees

Item	Торіс	Summary of consultation comment	Applicant response
	Adams Hendry (on behalf o	f SPWI)	·
10.1	Public perception	Paragraph 4.10 Chapter 6 of the ES seeks to address the public perception of energy recovery facilities. This appears as more of a public relations exercise than a proper consideration of the effects of the proposed Portland Port ERF on the local community and it is questionable as to whether it should form part of the ES.	The public perception section of this chapter identifies public concerns set out in published research and provides an objective and evidence-based response to these issues, using both published data and project-specific assessment findings, with sign-posting to where more detail can be found in other parts of the ES and other application documents. It is therefore appropriate for this to form part of the ES and incorrect to dismiss it as a public relations exercise.
10.2	Economic benefit	Paragraph 4.11 The assessment of economic effects suggests that the vast majority of spend will be directed to mainland Europe. The ES acknowledges that benefit of the proposed ERF to existing and new businesses in the Dorset area (levels 1 and 2) as a result of increased expenditure will be slight and will be negligible nationally. Similarly, the benefit of increased employment during construction to residents of Dorset will be slight.	This comment simply repeats the findings of the economic assessment. It does not however, recognise the positive contribution that such investment will make to the local economy, particularly given the evidence of local deprivation and the growth objectives of relevant economic development strategies.
10.3	Employment creation – use of multiplier	Paragraph 4.12 Once the ERF is operational, the ES suggests that a minimum of 17 jobs will benefit Weymouth and Portland with a further three jobs in the wider Dorset area. This is on the basis of using a multiplier that assumes an equal split between jobs in the Electricity, Gas, Steam and Air Conditioning (SIC 35) and the Sewerage, Waste Collection and Treatment (SIC 37-38) set out in the UK Input- Output Analytical Tables (ONS 2020). As the multiplier for SIC35 of 6.919 is significantly higher compared to the multiplier for SICs 37- 38 of 1.933, this can distort the results. Further justification is required to support the assumption that the jobs created would be equally split between the two sectors as it would seem more likely that the jobs would be heavily concentrated in the Sewerage, Waste Collection and Treatment SIC, resulting in fewer additional jobs.	This comment is not correct. The 17 jobs in Weymouth and Portland (or 20 in the wider area) do not depend on the multiplier or include its effects. The estimate of 17 (20) is obtained by reducing the original 30 direct jobs (expected to be required at the plant) downwards to account for workers who are likely to live outside of the target area and for jobs that would have existed anyway, both of which we have excluded so that we can identify the net effects. The multiplier effect will be applied to the 17 (or 20) jobs and will be additional to them. However, the effect of the multiplier, though it will be real and positive, has not been included at the local level.
10.4	Economic effects of shore power (cruise business)	Paragraph 4.13 The conclusions reached on the impact of shore power on the cruise business at Portland Port are totally unsubstantiated and contrary to the current projections quoted in the Shore Power Report for a 58% increase in cruise ships calling at the port in the near future in the absence of shore power. It is not reasonable to assume that shore power will not be made available at Portland Port in the next 25 years if the proposed ERF is not consented.	It is not correct to state that the conclusions reached on the impact of shore power on the cruise business are totally unsubstantiated. They are based on significant research and economic analysis. It is acknowledged that the forecast cruise ship calls in the two different reports are different. This is because they have been prepared for different purposes. The Shore Power report takes the Port's (higher) forecasts as its basis because it is necessary to ensure that sufficient energy supplies are planned such that the future demand for shore power can be accommodated. The use of lower figures here would risk under forecasting, the result of which would be inadequate energy supplies for visiting ships and artificially low costs of shore power at the planning stage. On the other hand, it is more appropriate for the economic analysis to use a more conservative estimate of cruise calls. The economic impact estimates are driven by a loss of tourism revenue (without the plant), which is estimated by considering the net differences between cruise ship visits under the with/without shore power scenarios. If higher figures were used under the 'with shore power' scenario, the differences between the with/without shore power scenarios would be greater, and the economic impact of the plant would be shown to be larger. While future cruise calls are likely to turn out to be more than envisaged in the economic analysis (and we note that the actual number is higher than the higher assumption used in the Shore Power report), the applicant and its technical consultants adopted a conservative approach. Doing so ensures that neither energy



Item	Торіс	Summary of consultation comment	Applicant response
			infrastructure and associated costs are under-estimated, nor the ecosystem is exaggerated.
10.5	Waste management costs	Paragraph 4.14 The conclusions reached on the cost of waste management set out in paragraphs 6.137 - 6.138 are also misleading. Whilst 51,244 tonnes of residual waste were sent to landfill in 2018, it is not reasonable to assume that this level of residual waste would go to landfill for the next 25 years. The saving of £43 million quoted is spurious to say the least.	The paragraphs highlighted here are intended to show that local aut able to realise significant monetary savings if they substitute their cu- waste treatment at the proposed plant instead. This is because land more expensive than the plant gate fees. The gate fee for the new p in the report, an example (which is clearly stated as such) estimated pitched in the region of £80/tonne, then there is the potential for Dor excess of £2.5m per annum, relative to using landfill. Over the 25 ye saving would add up to a net present value in the region of £43m. I may not continue to send their waste to landfill over the whole life of current situation and, for as long as the councils send waste to land them an estimated minimum of £2.5m pa beyond the cost of alterna Authorities do not have a viable alternative to landfill at present and of preferably local) alternative is provided they will continue to send wa extra costs. If nothing is done the default option will continue resultir with project scenario) of £43m (NPV).



thorities are expected to be urrent use of landfill for dfill rates are likely to be plant is not yet known but, d that if gate fees are prset and BCP to save in year life of the plant, such a It is true that the councils of the plant, but it is the dfill, it will continue to cost lative treatment. The Local until such a viable (and aste to landfill, incurring ing in a total cost (over the

ne, this is still likely to result ociated with landfill being ierarchy (given the resultant



### 11. Cultural heritage

Statutory consultees

Item	Торіс	Summary of consultation comment	Applicant response
	Historic England		
11.1	Impact on heritage assets – visual and associated relationship	Concerns regarding the potential impact on both visual and associative relationship of the proposed development on the significance of several nationally important heritage assets: Verne Citadel, Portland Castle, East Weares Camp, Battery 200yds (180m) E of the Naval cemetery, Underhill Conservation Area, Dockyard Offices and Dorset and East Devon Coast World Heritage Site including a number of listed buildings and non-designated assets	Effects on heritage assets are considered in chapter 7 of the ES wh to the Inner breakwater and Dock Office, the East Weare battery, T Portland Castle. Effects on the WHS are considered in chapter 13 effects to OUV. The proposals included in the framework mitigation strategy, develo DC conservation and Historic England (HE), aims to provide signific to off-set any identified harm.
11.2	Impact on heritage assets – dominance and impact on views	Whilst it is acknowledged that the area has been a working naval base and in most recent years a working port, it is felt that the proposed development is too dominant a presence and will intrude in views to and from the heritage assets. Considers the impact on the individual assets within the area and the cumulative impact both close to the development and from distant views would be harmful from the introduction of a dominating and visually intrusive chimney and large industrial scale buildings.	The assessment of effects in chapter 7 of the ES included the effect from and of the heritage assets, making use of the range of site pho visualisations included in chapter 9, landscape, seascape and visual illustrate the relative scale of the proposed ERF structures and stace Additional visualisations have been produced as part of the ES Add The proposals included in the framework mitigation strategy, develor DC conservation and HE, aims to provide significant public heritag identified harm.
11.3	Impact on heritage assets - heritage benefits	It is for your authority to establish if any heritage benefits could be achieved that would offset any harm (NPPF 200).	The framework mitigation strategy, developed in consultation with I aims to provide significant public heritage benefits to off-set any id- assets as a result of the proposed development.
	Dorset Council Conservatio	'n	1
11.4	Impact on heritage assets – degree of harm and heritage-related benefits	<ul> <li>We have identified less than substantial harm to the significance of the following designated heritage assets:</li> <li>Battery 200 yds E of the Naval Cemetery (Scheduled Monument, 1002412; and</li> <li>Grade II as 'East Weare Batteries at SY 694741', 1281863);</li> <li>Verne Citadel (Scheduled Monument, 1002411), including associated designated heritage assets within;</li> <li>Portland Castle (Scheduled Monument, 1015326; and Grade I, 1205262), including associated designated heritage assets;</li> <li>The Citadel, North Entrance (Grade II*, 1206120);</li> <li>Dockyard Offices (Grade II, 1203099);</li> <li>Inner and Outer Breakwater, including Coaling Shed, Jetties and Forts (Grade II, 1205991);</li> <li>Battery approximately 160m NE of East Weare Camp (Grade II, 1447946);</li> <li>East Weare Camp (Grade II, 1205814);</li> <li>Battery approximately 80m SE of East Weare Camp (Grade II, 1444030); and</li> <li>Underhill Conservation Area.</li> </ul>	It is noted that the Dorset Council heritage officer has undertaken a assessment of the proposed ERF and has broadly agreed with the impact assessment in the ES, finding that there would be less than identified heritage assets. It also concludes that the harm caused to be outweighed by public benefits and heritage-related benefits sect of mitigation. Further discussion has been held with the Dorset Council heritage of Historic England, to identify suitable heritage related benefits and the submitted Framework Heritage Mitigation Strategy. The strategy is works to the E Battery scheduled monument (1002412), that will revegetation and enable the asset to be managed such that it will be England's 'Heritage at risk register'. The heritage benefits will also i new permissive footpath link across the Portland Port estate (currer completing the 'around Portland' walking path and enabling the pu appreciate the scheduled monument and other heritage assets that the Island, assisted by the provision of new interpretation informatic heritage assets.



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dendum.

oped in consultation with le benefits to off-set any

DC conservation and HE, lentified harm to heritage

a comprehensive and robust conclusions of the heritage substantial harm to the o the heritage assets could ured through a programme

officer, also with input from his is set out in the focused on a programme of emove invasive scrub removed from Historic include the provision of a ntly not publicly accessible), iblic to view and fully t are located in this part of on about the various

eritage-related benefits, is ent to local heritage assets, pecifically, the proposals eritage asset (less than

Item	Торіс	Summary of consultation comment	Applicant response
		heritage-related benefits secured through a programme of mitigation, the public benefits will be made sufficiently substantial to outweigh the harm caused to the above heritage assets. Without this mitigation, it is not considered that the proposals meet the requirements of national and local plan policies.	substantial harm) can be suitably off-set by heritage-benefits, as req directed by Historic England.

### Other consultees

Item	Торіс	Summary of consultation comment	Applicant response
	Adams Hendry (on behalf o	f SPWI)	
11.5	Heritage assessment - Use of 1km study area	Paragraph 4.25 It is noted that the study area for the assessment is only 1km from the boundary of the main site. This is not considered sufficient for a proposal with an 80m stack that has the potential to affect the setting of heritage assets much further afield. Despite this very tightly drawn study area, there are still 200 records listed in the Historic Environment Record (HER).	As effects on archaeology (terrestrial and marine) were scoped out data is included for completeness only. As stated in paragraph 7.14 study area was extended where necessary to consider individual as radius with the potential for setting effects.
11.6	Heritage assessment - methodology	Paragraph 4.26 The methodology used in the assessment is vague and ambiguous and seems to be designed to underplay the significance of heritage impacts. By way of example is the consideration of the sensitivity of receptors shown in Figure 7.4. A number of receptors e.g. Conservation Areas span the full range of sensitivities from high to negligible and is therefore of little use in informing the assessment. Table 7.2 seeks to identify the importance of receptors and concludes that listed buildings and schedule monuments are high and conservation areas are medium. No explanation is given for this assessment other than a reference back to Figure 7.4, which as discussed is meaningless. Given the statutory protection given to listed buildings and conservation areas, it is not clear why they have been assessed as having a different level of importance.	This is the standard Terence O'Rourke methodology applied to her has been scrutinised by planning Inspectors at appeal on numerou in Spring 2020. The assessment methodology is therefore consider comprehensive and robust. Dorset Council's conservation officer ra concerns in the formal consultation response in respect to the meth The comment also misinterprets the methodology, as it is the locat that shows the primary level of importance – for example, the 'cons the 'medium' header. The shading allows for some flexibility in inter individual circumstances, which would be explained in the text. The here in respect to the methodology has no merit and carries no we
11.7	Heritage assessment – effect on listed buildings	Paragraph 4.27 Table 7.3 of the ES concludes that the proposed ERF will have a long term significant adverse effect on a number of listed buildings including the breakwater and former dock offices and the East Weare batteries as well as the Grade II* Verne Citadel and Portland Castle.	This comment simply repeats the assessment conclusions.
11.8	Heritage assessment – NPPF	Paragraph 4.28 The National Planning Policy Framework (NPPF) makes it clear at paragraph 193 that when considering the impact of a proposed development on the significance of a designated heritage asset, great weight should be given to the asset's conservation and the more important the asset, the greater the weight should be. Paragraph 194 states that any harm to, or loss of, the significance of a designated heritage asset, including from development within its setting should require clear and convincing justification.	Noted. This statement is covered in the legislation and policy section the ES chapter.

quired by NPPF (200) and



of the assessment the HER I of the ES chapter, the sets outside the 1km
tage assessments, which s occasions, most recently ed to be appropriate, ised no fundamental nodology.
on of the text in the figure ervation area' text is under pretation according to refore, the assertion made ght.
n, paragraphs 7.2-7.12 of

Item	Topic	Summary of consultation comment	Applicant response
11.9	Heritage assessment – impact on setting of heritage assets	Paragraph 4.29 It is not clear how the impact on setting has been assessed as the ES only includes images of the views in the absence of the proposal (see Figures 7.1 – 7.10). Further information is required to clearly show what impact the proposed ERF would have on these important heritage assets.	This is explained in the ES chapter methodology section (paragrap – 7.6). The ES chapter also refers to the ZTVs and visualisations ir
11.10	Heritage assessment – impact from cable route	Paragraph 4.30 As information on the construction of the cable route has been omitted, it is not clear what has been assessed in relation to cultural heritage. Further information is required.	The reasons for scoping out the cable runs are explained in the ES
11.11	Heritage assessment – preservation of listed buildings	Paragraph 4.31 Section 66 of the Planning (Listed Buildings and Conservation Areas) Act 1990, places a statutory duty on local planning authorities to have special regard to the desirability of preserving listed buildings and their setting or any features of special architectural or historic interest which they possess. A similar duty is set out in section 72 of the Act in relation to development within conservation areas, which states that, 'special attention shall be paid to the desirability of preserving or enhancing the character or appearance of the area'.	Noted. This is covered in the legislation and policy section, paragra chapter.
11.12	Heritage assessment – weight to be applied to impact on setting of heritage assets	Paragraph 4.32 The courts have held that ' <i>preserving means doing no harm</i> ' and have established that the desirability of preserving listed buildings and their settings should not simply be given careful consideration but should be given ' <i>considerable importance and weight</i> ' when the decision-maker carries out the planning balance. The fact that the ERF would have an adverse impact on the setting and significance of a range of heritage assets weighs heavily against it.	This is covered in the legislation and policy section, paragraphs 7.2 The Planning Supporting Statement sets out the clear justification f benefits in relation to waste management, energy and carbon, soci aspects, which giving the required weight to any harm to heritage a the harm and tilt the planning balance in favour of the proposal. Fu Addendum provides further information on heritage related mitigati provides significant heritage related public benefits that minimise an effects on affected heritage assets. The wider public benefits (set out in the planning submission), toge heritage-related benefits are substantial. Given that the harm to her be less than substantial, any adverse impact on heritage assets wo public and heritage related benefits.

hs 7.13-7.24 and figures 7.4 S chapter 9.



aphs 7.2-7.12 of the ES

2-7.12 of the ES chapter. for the project and the public cio-economics and other assets, together outweigh urthermore, the submitted ES tion, which it is considered and/or off-set any adverse

ether with the proposed pritage assets is accepted to ould be outweighed by



### 12. Ground conditions and hydrology

Statutory consultees

Item	Торіс	Summary of consultation comment	Applicant response
	Dorset Flood Risk Manager	nent	
12.1	Site drainage – viability and capacity	<ul> <li>The applicant has not demonstrated the viability of the existing outfalls or how, legally and technically, a new outfall could be created. The following points need to be addressed:</li> <li>The applicant has not demonstrated in their application that the existing outfall pipes have adequate capacity for the unattenuated flows coming from the Waste Recovery Site.</li> <li>Although a free discharge to the sea is allowable at this location, as it will have no discernible impact on downstream tidal flood risk, the conveyance of this free discharge needs to be sized accordingly. Where existing connections are to be used, this should consider, not only the size of the pipe but any contributions from development elsewhere. If a full, unattenuated discharge cannot be achieved due to capacity issues, then some attenuation might be needed to reduce peak flows.</li> <li>Also due to the lack of survey information there can be no certainty that the current condition of the existing network is suitable for discharge of surface water from the site.</li> <li>Surcharge of the system needs to be avoided during normal conditions as exceedance flows directly to tidal waters could conceivably convey contaminants off site.</li> </ul>	<ul> <li>Further investigations have been carried on the points of connection to be re-used and as a result a revised surface water drainage strat now provides appropriate surface water attenuation storage where pipe is limited.</li> <li>The information gained through further investigations and the revised strategy together with responses to the matters raised by DCLLFA Flood Risk Assessment Addendum.</li> <li>In summary, all of the matters raised are addressed and it is expect conditions relating to submission of further drainage details prior to applied.</li> </ul>

### Other consultees

Item	Торіс	Summary of consultation comment	Applicant response
	Adams Hendry (on behalf	of SPWI)	
12.2	Extent of the study area	Paragraph 4.33 No information has been provided on the extent of the study area and therefore it is not clear whether the cable route has been assessed. Further information is required as this is an intrinsic part of the proposal.	The extent of the study area is discussed in the desk study report in which states that the main development site was the focus of the s cable routes only comprise shallow linear excavations within the exit
12.3	Impact of cable routing	Paragraph 4.34 It is not clear whether the grid connection will be buried or will be overground. Clearly, if it is intended to be underground, there is potential for significant impacts during construction.	The principles of the connection are indicated in the Utilities Report application. This includes the fact that cables are buried and that a with SSE. Notwithstanding this, further information on the grid conr Grid Connection Paper for clarity.
12.4	Suitability and extent of ground investigation	Paragraph 4.35 It is noted that no intrusive investigations were carried out to establish the baseline condition of the site and its surrounds, rather a desktop study was undertaken based on reports produced by RPS to support the application for an energy plant. Not only is this data over 10 years old, it is not clear what study area was used by RPS given that the previous proposals were of a significantly smaller scale.	As is typical for such a development, and in accordance with good desk study has been prepared to inform the EIA and planning appli ground investigation data and other published sources of informatic ground investigation (GI) is shown on figure 4 in the desk study repared which shows that the GI locations are within the main development acknowledged that the RPS GI is over 10 years old, the polluting positive since the RSK GI has been relatively low. As noted in the desktop



on for surface water that are ategy is now proposed. This a the capacity of the outfall

ed surface water drainage are set out in the submitted

ted that the usual planning commencement will be

n technical appendix I1, study as the works along the isting road network.

which accompanies the an order has been placed nection is provided in the

practice, a comprehensive ication that uses existing on. The extent of the RPS ort in technical appendix I1, t area. Whilst it is otential of site activities study, an extensive ground

Item	Торіс	Summary of consultation comment	Applicant response
12.5	Need for further ground investigation works	Paragraph 4.36 The need for further ground investigation works to provide additional information on ground contamination conditions at the site to refine the risk assessment and if necessary, produce a remediation strategy, is set out in paragraph 8.68. Further information is also required to characterise the ground gas prior to development (see paragraph 8.73 of the ES). If required, a scheme of ground gas protection will be incorporated into the remediation implementation plan and the new buildings will incorporate measures to prevent ingress of gases into confined spaces. It is not clear what these measures might entail or whether they will have an impact on the appearance of the building. Further information is required. It is noted that the design will follow BS 8485:2015. It is understood that this guidance has been withdrawn and replaced by BS 8485:2015+A1:2019. Confirmation is required that the design will follow current guidance.	investigation will be required to fully assess risks associated with corremediation strategy and to satisfy environmental regulators. The ground investigation will include ground gas monitoring, as ider report in technical appendix I1. Gas monitoring will comply with Brit Guidance on investigations for ground gas – permanent gases and (VOCs) BSI, 2013. Gas risk assessment and if necessary gas protective by BS 8485:2015+A1:2019 Code of practice for the design of protection and carbon dioxide ground gases for new buildings. If gas required, the design will be confirmed on completion of the risk assessment indicates ground gas risks are likely to be low, as no sidentified. If required, gas protection measures will most likely complexity installed beneath the ground floor slab and therefore will not impact building.
12.6	Validity of ES conclusions	Paragraph 4.37 In the absence of further information on ground conditions as discussed above, the validity of the conclusions set out in the ES and therefore compliance with the EIA Regulations, is questionable.	Sufficient information has been submitted to support the ES assess this planning stage. As noted above further extensive ground invest fully assess risks associated with contamination, to inform a remedi environmental regulators. This will be addressed through suitable pl other regulation. This is a standard approach and accords with the Regulations.
	GS Pettifer	•	·
12.7	ES – consideration of ground instability	The site is located towards the toe of a major coastal landslip in Kimmeridge Clay, as shown on the local 1:50,000 scale Geological Map (i). Brunsden et al (ii) note that the toe of the landslide at this location is exposed to the full force of easterly winds and that the Kimmeridge Clay is undercut. Movements in this area are known to have occurred in the late 17th century and, more recently, in the 1960s and 1970s. Rates of movement of about 5mm per year have been calculated. It is possible that excavation work at this site, particularly in the southern part, and subsequent additional loading from new large structures, will reactivate the landslip at this location, potentially affecting both the ERF and adjacent buildings, roads and services. The possibility of ground instability at this location, and therefore any planned mitigation measures, has not been adequately considered in this planning application	The applicant has commissioned a Preliminary Slope Stability Assest to Dorset Council as part of its response to the Regulation 25 requer Council's letter). This assessment examines the potential for land in proposed ERF site, taking account of available historical records, da and the nature and scale of historical land uses at the site associate and civil activities. It also considers the potential risk of landslip in th current baseline position and in respect to the construction of the p accepted safety factors. This has concluded that the proposed ERF site lies at a position on the risk of substantive landslip is deemed to be relatively low (comp Portland) because of the presence of made ground and port structur which forms a buttress protecting the area from coastal erosion and It concludes that the risk of triggering any significant landslip from c relatively low, and that this risk can be minimised through the use of techniques. The assessment finds that the proposed development significant ground stability issues that would preclude the construct location.
	Portland Association		
12.8	Geotechnical stability – need for a cliff stability assessment	'ES Tech Appendix I1 Ground Conditions and water quality pt1', which states 'Long term stability of the hillside, which could potentially affect the completed development, has not been considered in detail. However, it is noted that the former railway that ran along the side of the site at the toe of hillside, was in place for over 100 years and does not appear to have been affected by large-scale slope movements.'	This comment draws upon the comments of GS Pettifer above in re The applicants response is set out in relation to point 12.7 above ar submitted Preliminary Slope Stability Assessment.

### ontamination, to inform a

ntified in the desk study tish Standard BS8576 volatile organic compounds ection measures will comply otective measures for s protection measures are sessment. Preliminary ignificant source has been oprise a membrane which is t on the appearance of the

sment and conclusions, at tigation will be required to liation strategy and to satisfy planning conditions and requirements of the EIA

essment, which is submitted est (point 29 in the instability in and around the lata from technical studies, ed with its former military his location based on the proposed ERF, based on

the Portland coast where bared to other locations on ures at the toe of the cliff d limiting natural movement. construction activity is also of appropriate construction would not give rise to any tion of the ERF in this

espect to ground stability. nd is addressed through the



Item	Торіс	Summary of consultation comment	Applicant response
		Therefore it seems that, based on the fact that nothing appears to have happened for over 100 years, this has led Powerfuel to the conclusion that nothing will happen in the future, appearing to be unaware that landslides are not predictable, and are dependent on many factors, including disturbance to the ground strata.	
		Under para '6.1.2 Geotechnical risks', Powerfuel states 'The assessment of the risk of future instability of the hillside to the west of the site is outside the scope of this report. However, it is considered that the proposed development should not significantly affect this risk, as any excavations that may remove toe weight will be of relatively local extent and will be supported in the temporary and permanent conditions.'	
		Given the environmental impact that a landslip could cause at the site of a 850 degree turbine waste incinerator, with toxic ash, ammonia and lime storage, all within a few metres of coastal waters, it would seem remiss of Powerfuel not to have commissioned a cliff stability assessmentPowerfuel needs to undertake these assessments/surveys and provide evidence that this site is a safe location.	





### 13. Landscape, seascape and visual effects

Statutory consultees

Item	Торіс	Summary of consultation comment	Applicant response
	Dorset AONB		
13.1	Visual impact – introduction of industrial element to AONB setting	Visible emissions would lead to a notable industrial element being added to the AONB's setting, in prominent position.	It is important to note that the site currently has an extant planning development of an energy plant fuelled by vegetable oil and waste life tyres, which could be implemented in the absence of the propo- would also have a stack with visible emissions if built.
13.2	Visual impact - impact of visible emissions on AONB	There are concerns about the effect of visible emissions on views out from the AONB and perceptions of the areas exceptional undeveloped coastline.	The reference made here to an undeveloped coastline is questional Portland Port which is a key employment site and within the Norther Portland Neighbourhood Plan as an area which is intended to 'cerr employment zone. The AONB officer acknowledges that the site has industrial buildings and other built development therefore this small developed. The port is a working port with a number of large indus permission for industrial buildings at Glencore Upper Osprey. There berthed within the Port and currently within Portland harbour. Quee the former naval block 'Prince Andrew House' lie just outside the p at a similar elevation to these existing developments. The assessment in paragraph 9.141 of the ES addressed the impa AONB. The effects were described as negligible and not significant plume has been produced as well as figures 9.38 to 9.41 of the ES photomontages of the plume. The analysis concludes that the plum average for 24.2 hours each year which represents only 0.56% of r and all of these hours will occur outside the main tourist months. C hours each year the plume would be between 100-200m in length, length of the building. Figures 9.40 and 9.41 from two locations wil largest plume which would have been visible for just 1 hour in Febr years of weather data. The additional information supplied confirms negligible and not significant from the AONB is correct.
	Dorset Landscape Officer		
13.3	Photomomtage – inclusion of plume	The photomontages should represent a worst-case scenario of the visual impacts. With the plume not being included in the photomontages I would suggest they are not a fully accurate representation.	A DAS addendum on the plume has been produced as well as figuillustrating verified photomontages of the worst case scenario for the have occurred for just 1 hour in February 2016.
13.4	Plume model – consideration of coastal location	The Fichtner report explains how the 'model' used for the detailed modelling of process emission includes a function to model when the plume is visible, based on the water content of the plume'. What is not apparent is if that model considers the coastal location with its dynamic weather conditions or if the results are based off a generic algorithm?	Full details of the dispersion model are provided in Appendix D2 of the local conditions have been accounted for in the model. This inc variances in surface roughness between the land and sea, and the been taken from the Portland meteorological site. As such the mod location and is not a generic algorithm.
13.5	Plume visibility – assessment of visual effects	In the Landscape, seascape & visual effects of the Environmental Statement the plume is described in many of the selected viewpoints as a minor impact. For instance, in section 9.139 of the LVIA Viewpoint 9 the Visual Effects at Completion are noted as 'likely to only produce a very minor alteration to the view for a very limited number of hours.' The eventuality the plume will be visible only for a limited time is understood, but I question if when the plume is visible that it will only have minor landscape and visual impacts.	The additional information supplied within the DAS addendum on t addendum figures 9.38 and 9.41 confirms that the assessment of plume within the ES is correct.



permission for the rubber crumb from end-ofused development. This

able. The site lies within ern Arc identified in the nent' the location as a vital as large-scale quasi-I part of the coastline is strial buildings and e are also large vessels ens View Apartments and port area and the ERF will lie

acts of the plume from the t. A DAS addendum on the S illustrating verified ne will only be visible on non-cloudy daylight hours, Of these hours for only 4 , which is less than the thin the AONB illustrate the ruary 2016 within the last 5 s that the assessment of

ures 9.38 to 9.41 of the ES ne plume, noting this would

the ES. This explains that cludes the local terrain, meteorological data has del considers the coastal

he plume and the ES the visual effects of the

13.6	Cumulative effects	There will be a cumulative landscape and visual effect with the proposed ERF and industrial units. There is also a concern for inter-project cumulative effects with other proposed industrial units in this area. An assessment of these in relation to the proposed ERF would have been useful to address these concerns.	The LVIA chapter 9 within the ES addresses the landscape and vis Chapter 3 of the ES sets out the full details of the cumulative scher
13.7	Viewpoint and photomontage 9 – magnitude of effect	Viewpoint 9 & Photomontage viewpoint 9, Figure 9.26 & 9.33 - Taken from Sandsfoot Castle. The conclusion of the view in the LVIA states the magnitude of effect is negligible adverse and the significance of visual impacts is negligible & significant. My judgment is that the significance should be greater, before the consideration of a plume which will increase the landscape and visual impacts further.	The LVIA chapter 9 paragraph 9.139 has been misread. The visual Castle are considered to be medium adverse at completion and the rather than negligible adverse as stated. The plume is not considered effects from those that are stated within the ES.
13.8	Visual impact – lighting from the car park	I do have reservations over the proposed lighting and its potential visual impacts The proposed columns in the car park and service yard are the largest proposed at 6-8 metres as described in section 4.3 and 4.5 of the Lighting Statement. To ease concern, I would like to propose these are no more than 6 metres and have the Flat glass luminaires fitted as specified in section 7.0 and a lighting cowl if this will also help prevent any light spill? In addition a verbal request was made for night-time photomontages from Sandsfoot Castle and Ringstead Bay car park.	ARUP have adjusted the light columns to 6m along the access road 6m in the car park as requested. The lighting statement confirms the with very low or no upward distribution will minimise contribution to tightly controlled and considered to avoid light spill" and "Zero tilt a that will limit upward light spill with the use of flat glass lanterns and mitigate light spill beyond the intended areas" will be incorporated i Night-time baseline photos and montages have been produced [from Ringstead Bay car park] in the ES addendum figures 9.42 to 9.45 at the conclusions of the night-time assessment at completion within to ES Addendum for additional information on night-time effects.
	Jurassic Coast Trust	·	
13.9	Visual impact – visible plume and introduction of industrial element to the setting of the WHS.	The overall impact of an operational ERF is not restricted to the presence of the building within the landscape. In spite of the sincere efforts to reduce its visual impacts, there is no escaping that it is a very large industrial building, beyond the scale of what is already at the port. For example, the lighting necessary for a facility of this size, particularly on the stack, means there will inevitably be a change to the balance in how the views out of the WHS are perceived to be of an industrial or natural coastline. Of more significant concern is the potential impact of a visible plume. The LVIA describes a visible plume as having minor effects for a limited time. I would not dispute the limited time element, but it is hard to accept a visible plume as having minor effects, considering that there are no other industrial facilities of this type or scale along the WHS. It would be helpful if the visual impacts of a visible plume were modelled in more detail using existing viewpoints with perhaps additions from the top of Portland itself. This would help greatly in understanding more fully the operational reality of the ERF. In summary, the application deals with impacts on the WHS fairly, with the exception of a detailed model for the visual impacts of a visible plume. My concern is whether or not an industrial development of this scale is appropriate within the setting of the WHS. The impacts of the structure itself on setting are not considered significant, but I question whether this reflects the ways in which an operational ERF might change how people perceive its surroundings as a natural or industrialised landscape	The site lies within Portland Port which is a key employment site an identified in the Portland Neighbourhood Plan as an area which is in location as a vital employment zone. The AONB officer has acknow large-scale quasi-industrial buildings and other built development at the building within the landscape should not materially change how perceived, noting that there are often large vessels berthed at Portl lighting, etc. which are often larger in size than the proposed development a location within the Plume has been produced as well as figuillustrating verified photomontages of the plume. Figures 9.39 (view from a location within the WHS. This illustrates the largest plume wisible for just 1 hour in February 2016 within the last 5 years of we information supplied confirms that the assessment of slight and no correct. The analysis concludes that the plume will only be visible ceach year which represents only 0.56% of non-cloudy daylight hou will occur outside the main tourist months. Of these hours for only plume would be between 100-200m in length, which is less than the ARUP has adjusted the light columns to 6m along the access road in the car park. Night-time baseline photos and montages have been produced in 9.42 to 9.45. Figure 9.43 (viewpoint 9 Sandsfoot Castle) is a photo effects from within the WHS. The stack will be lit in accordance wit requirements. Although this will be located at the top of the stack t the Verne on the highest point of the lsle of Portland associated wir satellite dish clearly visible from Sandsfoot Castle. The traffic lights that alternate between green, amber and red are also clearly visible These will be significantly higher than the light at the top of the stack in the context of the existing lighting at the port facilities (and lightir in the context of the existing lighting at the port facilities (and lighting the port facilities (and lightin

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effects from Sandsfoot erefore moderate adverse ed to increase the visual

ad and service yard and 5hat "The use of luminaires o 'sky glow'. Light will be and provision of accessories d back shields to further into the lighting design.

om Sandsfoot Castle and as requested. These confirm chapter 9 of the ES. Refer

nd within the Northern Arc intended to 'cement' the wledged that the site has and therefore the addition of v views out of the WHS are land, with associated lopment.

ures 9.39 to 9.41 of the ES vpoint 9 Sandsfoot Castle) is vhich would have been eather data. The additional of significant from the WHS is on average for 24.2 hours urs, and all of these hours 4 hours each year the he length of the building.

and service yard and 5-6m

the ES Addendum figures omontage of the night-time th CAA and MOD there are lights at the top of ith the prison and the at the entrance to the Verne e from Sandsfoot Castle. ck. The lighting will be seen ng from vessels berthed at



			the port) and has been designed with minimal light spill. This confirm night-time assessment at completion as negligible from the WHS wit Refer to ES Addendum for additional information on night-time effect Further comment in respect to the JCT response and the ES assess 17 below.
	Osmington Parish Council		
13.10	Visual impact from scheme lighting and aircraft warning light	There will be light pollution from the aircraft warning light on top of the stack as well as from the car park and the building.	See 13.8 above. Night-time montages have been produced in the Es and 9.43. these confirm the conclusions of the night-time assessment chapter 9 of the ES.

### Other consultees

Item	Торіс	Summary of consultation comment	Applicant response		
	Adams Hendry (on behalf of SPWI)				
13.11	Landscape character area (LCA) - description	Paragraph 4.38 The application site lies within the Harbour / Wetland / Lagoon landscape character type. The Dorset Landscape Character Assessment (LCA) describes it as a large scale, open, tranquil and generally unspoilt landscape with important vistas and views of historic and cultural importance. It provides important and popular open space and recreational value and open and extensive views are available towards the Osmington Coast and Portland. The detrimental features described in the LCA include visually prominent development and the intrusive presence of heavy traffic on the A354.	The application site does not lie within the Harbour Wetland / Lagoo type as stated, but rather lies within the Limestone Peninsula. Theref subsequently described in this comment is incorrect.		
13.12	Landscape character area (LCA) – impact on key land management features	Paragraph 4.39 and 4.40 The LCA includes key land management features for the Harbour / Wetland / Lagoon landscape character type. These include reducing and controlling diffuse pollution and maintaining the open, uncluttered and dramatic coastal landscape character of the area. The ES concludes that the ERF will enhance a currently derelict site within the industrial port underplays the significance of the impacts. It is implied that the current open nature of the site is having a negative effect on landscape character, but no evidence has been provided to support this conclusion. Rather, maintaining the open coastal landscape character is a key landscape management feature for this LCA.	The application site does not lie within the Harbour / Wetland / Lago type (rather the Limestone Peninsula) and therefore the commentary features described are incorrect.		
13.13	Landscape and visual effects – legibility	Paragraph 4.41 The assessment of landscape and visual effects is difficult to follow and the need to print the photomontages and photowires at A1 makes it very difficult for members of the public to properly understand the likely impact of the proposal.	The photomontages and photowires have been produced in accorda Institute Technical Guidance Note 06/19, Visual Representation of D September 2019. A hard copy of the complete planning application, been available to view at the Portland Town Council.		
13.14	Landscape and visual effects – viewpoints, meteorological conditions and plume photomontages	Paragraph 4.42 The way in which landscape and visual effects have been presented downplays their significance. The photographs from the various viewpoints have all been taken on days where low cloud is the prevailing meteorological condition. None of	The photographs have not all been taken on days where low cloud is meteorological condition. Each photograph has a date and time and viewpoint 5 (fig 9.22) the photo was taken on the 16 March 2020 on viewpoint 8 (fig 9.25) taken on the 18 March 2020 taken in cloudy co representative of different weather conditions at Portland.		

ssment is provided in table

ES addendum figures 9.42 nent at completion within

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Development Proposals, 17 , including the LVIA has
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on a sunny day compared to conditions. These are



Item	Торіс	Summary of consultation comment	Applicant response
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		the photomontages include the plume despite this being specifically requested by Dorset Council in pre-application advice.	Additional photomontages (from those viewpoints where non-plume photomontages have already been provided) showing the expected plume have been prepared and have been submitted to Dorset Council as part of the revised LVIA addendum. These comprise part of the submitted ES Addendum. These photomontages have been prepared in accordance with the Landscape Institute Technical Guidance Note 06/19, Visual Representation of Development Proposals, 17 September 2019 and therefore provide an accurate visual representation of the plume, based on modelled technical plume data provided by Fichtner. In addition, further information is provided in the Design and Access Statement (DAS) Addendum in respect to the frequency, duration, length and appearance of the plume.
13.15	Landscape and visual effects – viewpoints (before and after views)	Paragraph 4.45 It is common practice to show the viewpoints both with and without the proposal. As it stands, it is not possible to understand precisely how the view will be affected as the only information included is the approximate extent of the proposals	Viewpoints 8, 9, 11 and 12 show the viewpoint with and without the proposals. These were agreed with Dorset Council and the AONB officer as the viewpoints from which to undertake photomontages and photowires. The remaining viewpoints are also in accordance with the Landscape Institute Technical Guidance Note 06/19, Visual Representation of Development Proposals. 17 September 2019
13.16	Landscape and visual effects – viewpoint 3 (Portland Port and breakwaters, including the Sailing Academy and Portland Marina)	Paragraph 4.44 The photograph for viewpoint 3 looks like it was taken at dusk and is not representative of daytime conditions. The bulk and the massing of the ERF from this point (shown only by a line demarking the approximate extent of the site) will be dominant in the view and not as suggested in the table of page 9-55 that it will be of medium prominence and will cause a partial alteration to the composition of the view.	This photograph was not taken at dusk but was taken at 11.30am on the 18 March 2020. This is detailed on the photograph viewpoint 3 figure 9.20. This is an illustrative view from the port. The table referred to on page 9-55 (paragraph 9.132) is an assessment table of the visual receptors from Portland Port and breakwaters, including the Sailing Academy and Portland Marina and Portland Harbour. It is not an assessment table of that single viewpoint and therefore describes the visual experience of the receptors from the area
13.17	Landscape and visual effects – viewpoint 3 (Portland Port and breakwaters, including the Sailing Academy and Portland Marina - sensitivity of receptors	Paragraph 4.45 The conclusion that the receptor (local residents, workers and visitors using the harbour and marina facilities and taking part in water sports within the harbour) is of medium sensitivity is based on the assumption that their attention is likely to be on the surrounding landscape and therefore they would be less susceptible to the specific change associated with the ERF. This is nonsensical; the ERF will dominate the view and will not be considered a small change.	The table referred to on page 9-55 (paragraph 9.132) is an assessment table of the visual receptors from Portland Port and breakwaters, including the Sailing Academy and Portland Marina and Portland Harbour. It is not an assessment table of that single viewpoint and therefore describes the visual experience of the receptors from the area. The assessment that the receptors are of medium sensitivity is based on the value of the receptors as well as the susceptibility to change. While the ERF may be prominent in that particular view (viewpoint 3 which is a private view from the port not available to the public) there are many other viewpoints available to the receptors. The susceptibility to the change is considered to be medium and therefore the sensitivity will be medium.
13.18	Landscape and visual effects – viewpoint 3 (Portland Port and breakwaters, including the Sailing Academy and Portland Marina – magnitude of visual effects	Paragraph 4.46 It is not accepted that the magnitude of visual effects at completion will be small adverse with the significance of visual effects being slight.	This comment is incorrect. The table on visual effects from Portland Port and breakwaters, including the Sailing Academy and Portland Marina and Portland Harbour in paragraph 9.132 does not state that the magnitude of visual effects at completion will be small adverse with the significance of visual effects being slight. It states that the magnitude of visual effects at completion will be medium adverse with the significance of visual effects being moderate.
13.19	Landscape and visual effects – viewpoint 3 (Portland Port and breakwaters, including the Sailing Academy and Portland Marina – significance of the visual effect	Paragraph 4.47 Even if it was accepted that the receptor is of medium sensitivity (which it is not) and that there would be a partial alteration to the composition of the view (again which it is not) then by applying the criteria set out in Figure 9.6, the significance of the visual effect would be moderate to substantial and not slight as stated in the assessment.	This statement is incorrect. Either the author has been looking at a different table or they have misinterpreted the table in paragraph 9.132. The significance of the visual effect has already been assessed as moderate, not slight.
13.20	Landscape and visual effects – methodology and conclusions on likely significance	Paragraph 4.48	The assumptions on likely effects are not flawed and we have used the methodology correctly to reach conclusions on significance. The conclusions reached in the author's response (paragraphs 4.45 to 4.47) have been misinterpreted (possibly reading a different table to paragraph 9.132).



Item	Торіс	Summary of consultation comment	Applicant response
		Not only are the assumptions on likely effects flawed, the applicant fails to follow its own methodology in reaching a conclusion on likely significance. The conclusions of the ES on landscape and visual effects should therefore be disregarded.	The conclusions of the ES on landscape and visual effects are robust and should not be disregarded.
	Coe Design (on behalf of SF	PWI)	
13.21	ZTV – zoomed in versions	Paragraph 2.3 It is requested that the ZTVs are produced at a closer distance of 1.5km and that PROW are added.	Figures 9.46 and 9.47 in appendix 8.2 of the Regulation 25 ES Addendum illustrate these zoomed in ZTVs.
13.22	ZTV – certainty of visibility and baseline photography	Paragraphs 2.3 and 2.5 There are a number of key locations at short-medium distance where we consider it critical, to enable consideration of the proposals, to be certain whether visibility is likely or not or where visibility is indicated to be likely based on the ZTVs. Baseline photography from a selection of these, would be necessary to include within the study. It is difficult to understand why some of the locations were not included in the scope of the baseline photography enabling them to be considered for photo- wire / photomontage analysis.	It is acknowledged that a baseline photograph is not provided from every location. To illustrate all potential viewpoints from which the proposals will be seen by the different visual receptors within the study area is not practical and is unnecessary for the purposes of the EIA. While it is important to have some baseline photography it is not the photographs that are assessed but the visual receptors. The baseline photographs are intended as a representative, specific or illustrative selection to aid the assessment process. To illustrate all potential viewpoints from which the proposals will be seen by the different visual receptors within the study area is not practical and is unnecessary for the purposes of the EIA. The visual receptors, methodology and viewpoints and photomontages/photowire locations were agreed with Dorset Council and the AONB Partnership. The photomontage / photowire locations were also discussed with the Jurassic Coast Trust in August 2020. The assessment tables consider the visual effects from specific visual receptors. Paragraph 9.132 assesses the visual effects from visitors to Portland Port and breakwaters, including the Sailing Academy and Portland Marina and Portland Harbour. Paragraph 9.135 assesses the visual effects for users of public rights of way S3/68, S3/70, S3/72 and S3/81. The Rodwell Trail is illustrated on figure 9.16 and 9.17 revision A in the ES addendum. As can be seen from these figures there will be extremely limited potential visibility from the Rodwell Trail other than from between the Ferrybridge Inn and Sandsfoot Castle, and therefore will have even more limited visibility.
13.23	Plume modelling – need for plume modelling and photomontages	Section 3 Although it is predicted that a visible plume may be present for a limited time, it is agreed that the potential significant adverse visual effects associated with the plume warrants its inclusion in the selected photomontage studies. It is reasonable that the study would provide photomontages with and without the plume, to enable both scenarios to be considered separately. There are concerns that the assumption that that the visible plume will result in only minor landscape and visual effects, when visible, is under-estimated and that evidence should be provided within the study to allow more detailed judgements to be reached, with the opportunity for these to be scrutinised through the application process.	A DAS addendum on the plume has been submitted in addition to figures 9.38 to 9.41 of the ES addendum illustrating verified photomontages of the plume. The analysis concludes that the plume will only be visible on average for 24.2 hours each year which represents only 0.56% of non-cloudy daylight hours, and all of these hours will occur outside the main tourist months. Of these hours for only 4 hours each year the plume would be between 100-200m in length, which is less than the length of the building. The assessment tables therefore remain unaffected and the conclusions unchanged.
13.24	Assessed viewpoints and photomontage / photo-wire visualisation studies	Paragraph 4.6 The weather conditions present in the recorded photography do not enable a worst-case scenario to be assessed, either of the proposed building when seen against a backdrop of sky or of the plume, should it have been modelled.	It is not the photographs that are assessed but the visual receptors. The photographs give a range of different weather conditions typical of the area during winter. A qualified landscape professional is deemed able to undertake a landscape and visual assessment using their experience without the need for a photomontage or photowire from every location and it is the written assessment that should be considered not just the photography or visualisations. Chapter 9 of the ES fully assesses the closer range visual receptors in the visual assessment tables.



Item	Торіс	Summary of consultation comment	Applicant response
13.25	Efficacy of the proposed visual mitigation	Paragraph 5.3 Further assurance is sought of the efficacy of the proposed visual mitigation applied to areas of the building as photo printed PVC mesh.	The DAS addendum gives further detailed information on the PVC mesh including what the building would be like without the PVC mesh.
13.26	Summary of significance judgements	Paragraph 6.2 It would be of benefit if there was a summary of the judgements and effects that included all those judged to be non-significant together with those judged to be significant and for this to be able to be referenced back to viewpoint studies.	This suggested approach would be contrary to all the other chapters in the ES where the requirement of the ES is to determine the significant residual effects that remain after mitigation.
13.27	Visual effect of plume length	Page 1 The plume will be potentially 280m in length	This statement is not accurate. The maximum length of visible plume in daylight hours during non-cloudy day is 187.89m based on hourly data analysed at Portland over the past 5 years. Detailed technical information, derived from advanced plume modelling software, on plume length, duration and orientation is provided in the DAS plume addendum. The potential 280m length was during daylight hours but not taking into account how cloudy the skies were i.e. on a cloudy day the plume would be obscured by the cloud cover and therefore would not be visible.
13.28	Visual impact – effectiveness of printed PVC mesh	Page 1 The use of PVC mesh to camouflage the building in an attempt to blend it into the background will create an unnatural, unrealistic look, the PVC mesh printed with an image of the cliff face vegetation was chosen by Powerfuel Portland (PfP) to reflect the vegetated cliffs of East Weare, and the profiled metal cladding to imitate the exposed cliff face, yet the cliff face it is imitating is some 80m or so above the height of the proposed plant. There are flaws in the PVC mesh imaging - it will not reflect any seasonal changes in the surrounding vegetation, it will therefore still represent an alien, unnatural feature in the landscape. Nor will it reflect the daily change in weather conditions, for example on a stormy day whilst all vegetation in the area has movement with changing shades of colour, the plant will remain obstinately static and unchanging, again highlighting this alien and unnatural feature in the landscape. There is no evidence to show how it will weather over time particularly in such an exposed coastal location, nor if it will be durable and effective in the long term.	Further information is now contained within the DAS addendum on the proposed PVC mesh and various options that could successfully achieve the objective of blending the building in with its background. It is not intended to try to make the building invisible, but rather soften views particularly from longer distance views from the Dorset AONB and surrounding area. The DAS addendum on materials provides further information in respect to the durability of the materials, including impact of sunlight. It is considered that the precise approach to camouflage imagery and materials can be addressed by means of suitable planning condition relating to external materials and finishes.
13.29	Visual impact – night-time lighting	Page 2 With no photomontages provided of the effects of the lighting at night, there is no evidence presented of how much effect the lights will have. It is likely that the stack lighting, however, will be visual from many different viewpoints, day and night, and will have an adverse visual effect.	A lighting statement was submitted as part of the application. This was undertaken by Arup and informed the lighting assessment in the LVIA chapter 9 of the ES. Night time photomontages have been prepared and are included in the DAS addendum in figures 9.42 and 9.43 (submitted as part of the Regulation 25 ES addendum). The two viewpoints from which these were produced were agreed with the Dorset landscape officer and Tetra Tech consultant. These illustrate that the conclusions reached within the LVIA are correct.
13.30	Landscape character type (Limestone Peninsula) - characteristics and management objective	Page 4 and 13 The site lies within the Limestone Peninsula character type with the key characteristics including "a dramatic and distinctive wedge shaped limestone peninsula at the end of Chesil Beach with prominent cliffs", "a unique coastal landmark with sweeping views along the coast" and "many key nature conservation sites of importance". The overall management objective should be to maintain the integrity of the skyline. The proposal is not compatible with these characteristics or overall management objective.	This comment fails to include a number of other key characteristics noted for the character type including <i>"an open skyline dominated by manmade structures and features"</i> and <i>"a disjoined, untidy and neglected feel"</i> . They state that the overall management objective should be to maintain the integrity of the skyline. The proposed ERF has been carefully designed to ensure that it does not break the skyline from many views within the wider landscape such as from the AONB as illustrated in figures 9.34 to 9.37. When viewed from closer viewpoints such as Sandsfoot Castle and Ferry Bridge the narrowest part of the building will be visible and it will be seen within the context of tall structures within the port, including cranes, ship funnels, lighting columns and radar equipment and therefore is not considered to be inappropriate development.
13.31	Viewpoints – Abbotsbury Hill and Hardy's monument.	Pages 4 and 13	The Abbotsbury Hill viewpoint is approximately 18km from the application site and therefore 8km beyond the study area. The Hardy's monument is approximately 15.5km from the site and therefore 5.5km beyond the study area. The views and photomontage locations were agreed with Dorset Council and the AONB Partnership. The intention of an ES is to determine



Item	Торіс	Summary of consultation comment	Applicant response
		An Abbotsbury Hill viewpoint has not been included in the ES "Landscape, seascape and visual effects environmental assessment", this is a major omission. It also fails to mention another well-known viewpoint, Hardy's Monument.	the significant residual effects after mitigation. Given the distance th viewpoints are considered to be not significant and therefore it wou include them within the ES.
13.32	Landscape character type (harbour/wetland/lagoon) - characteristics and management objective	Page 5 Importance is placed upon the harbour/wetland/lagoon landscape character type. The proposal will represent a breach of this character type objective in the control of development at the fringes to minimise its landscape, ecological and visual impacts, maintain key views and maintain the undeveloped character along the coast.	This comment fails to mention that this is a specific management of harbour/wetland/lagoon character type from the Dorset County Lar assessment. The boundary of this character type does not extend a peninsula but stops at the northern end around Ferry Bridge as illus ES. Therefore, the management objective of controlling development to the edges of its boundaries which are approximately 3.2km from affected. The management objectives are specific to the boundary of the key viewpoints described in the Dorset landscape character ass towards the old chapel on top of St. Catherine's Hill near Abbotsbur unaffected as the proposals are in the opposite direction. The Weyr landscape Character Assessment February 2013 has a different bo County harbour/wetland/lagoon landscape character type that extend the causeway. It does state that wedge-shaped mass of Portland p prominent, forming the southern skyline from much of the area. How towards the northern and southern extents, the urban influences of Quay are notable. It goes on to state that "the remaining land use is a major transport corridor running the length of the area and large so Sprey Quay" and that "built development is predominantly clustered that "the visual unity is weakened by modern industrial and resident varying architectural styles and materials." There are no management within the Weymouth and Portland landscape Character Assessment
13.33	Landscape effects on the man-made harbour	Page 6 The LVIA conclusions on the magnitude of landscape and seascape effects is questioned and represents and under estimation.	The magnitude of change was considered to be medium and the de was slight and not significant based on the methodology which was Council and the AONB Partnership. A low sensitivity receptor with a change results in a slight degree of effect, which is not significant.
13.34	Viewpoints – times that viewpoints were taken	Page 7 Viewpoints 2 and 3 in the ES were "taken in the evening preventing the image from being 'read'.	This assertion is incorrect as the date and time of the photographs 9.19 and 9.20. These were taken at 1.25pm and 11.30am on the 1 reflects one set of potential weather conditions at Portland. The photographer of days from the morning through to the afternoon in both conditions.
13.35	Viewpoint – A534 and Ridgeway Hill	Page 10 The applicant selected the visual effects from the A354 represented by one single point on an approximately 16 miles stretch of road that connects Dorchester, via Weymouth, to the Isle of Portland, choosing Ferrybridge on the extreme western edge of Portland, viewpoint 8. To only consider one viewpoint over 16 miles is another omission. This area has been given the landscape effect ranking of negligible and not significant, but this does depend on which point in the 16 mile stretch is being referred to. As you travel down Ridgeway Hill, this provides the first chance to see Portland and there is a certain wow factor, each and every time you travel down this road towards Weymouth.	With a LVIA it is not the viewpoints that are assessed but the experi- using the A354. The entire length of the A354 within the study area paragraph 9.136 using viewpoint 8 as an illustrative example of one photographs have all been taken in accordance with the Guidelines Impact Assessment, (GLVIA) 3rd Edition, Landscape Institute (LI) ar Environmental Management and Assessment (IEMA) (2013) and the Technical Guidance Note 06/19, Visual Representation of Developm September 2019. The LI requires the camera to be a Full Frame Se length prime lens to be used and this is what has been used throug the ES. Ridgeway Hill is over 10km from the site and therefore would have a illustrated by the assessment table in paragraph 9.130 on the visua Dorset Ridgeway and Osmington White Horse. The ZTVs clearly de there will be from the A354 from the study area boundary to Ferry E be potential views across the causeway.

he visual effects from these uld not be appropriate to

bjective of the ndscape character along the Portland strated on figure 9.10 of the ent at its fringes is restricted the site and will not be of this character type and sessment are the views ury. These views will remain mouth and Portland oundary to the Dorset ends further south across peninsula is visually wever, it also describes that f Wyke Regis and Osprey predominantly urban, with scale development at red towards the south" and itial development with ent objectives described ent.

degree of landscape effects is agreed with Dorset a medium magnitude of

are recorded on figures 18th March 2020 and notographs were taken over th sunny and cloudy

rience of the visual receptors a has been assessed in e representative view. The s for Landscape and Visual nd Institute for e Landscape Institute ment Proposals 17 ensor and 50mm focal ghout the LVIA chapter 9 of

a negligible visual effect as al effects from the South emonstrate how little visibility Bridge where there will then



Item	Торіс	Summary of consultation comment	Applicant response
13.36	Visual – mapping of the World Heritage Site (WHS)	Page 11 The mapping of the WHS (figure 9.8) is incorrect. The area of WHS from near Smallmouth beach all the way along to Nothe Castle and Weymouth Stone Pier has been omitted from the map in two key visually effected areas, namely Sandsfoot Castle and Nothe Fort.	This assertion is incorrect. This is illustrated as a narrow horizontal the coastline. The objection queries why the assessment separates Coastline from the Dorset and East Devon Coast UNESCO WHS of the same area. This is incorrect. They are two separate areas some 9.8 illustrates the West Dorset Heritage Coastline as a blue diagon into the sea and the Dorset and East Devon Coast UNESCO WHS Each of these areas is assessed in paragraphs 9.142 and 9.143. T are not assessed as it is the experience of the receptors to the who assessed. The views are only used as representative examples.
	Ramblers		
13.37	Visual impact on the England Coast Path	Section 5 The developers make no mention of the England Coast Path which is important both for the health and recreation of Portland residents but is part of the attraction of the island to visitors and will become of increasing importance in the future, both nationally and internationally, once the England Coast Path is completed and runs to the west of Weymouth as well as to the east. The Environmental Statement refers to the South West Coast Path rather than the England Coast Path, although they are largely synonymous, the England Coast Path has the important additional feature of the approved coastal margin.	This comment appears to focus on the approved coastal margin the Coast Path. It is important to note that a large area of the coastal massociated with Portland Port and the East Weare where there is new within the prison which is not accessible to the general public. The coastal margin and private (inaccessible) land is illustrated on figure addendum. This shows that much of the coastal margin is not acce 1.5km of the site. The ES while not specifically assessing the coast from the South West Coast Path, Weymouth beachfront, Portland the sailing academy and the footpaths S3/68, S3/70, S3/72 and S to the west and south of the site as well as the West Dorset Heritag and East Devon Coast UNESCO World Heritage Site. These visual area as the coastal margin and therefore the ES has assessed the England Coast Path and coastal margin.
13.38	Assessment of views - National Sailing Academy and Portland Marina	Section 5 The National Sailing Academy and Portland Marina are places of public resort to which access on foot and bicycle has been provided and the views from those locations do not appear to have been adequately considered.	The ES chapter 9 paragraph 9.132 assesses the visual effects from building design has been carefully considered in terms of views from DAS with the narrowest part of the building facing this direction.
13.39	Impact on local landscape and nature conservation designations	Section 7 The proposed development will impact upon an area of land immediately to the south which is designated as a site of National Importance for Nature Conservation and Land of Local Landscape Importance. These designations alone mean that a development of this kind would be contrary to numerous planning policies.	This comment fails to mention that the site is located within a key e Northern Arc within the Portland Neighbourhood Plan which is inte location as a vital employment zone. In addition to this the site is a within an industrial port that currently has an extant planning permi an energy plant fuelled by vegetable oil and waste rubber crumb fro could be implemented in the absence of the proposed development
13.40	West Dorset, Weymouth and Portland Local Plan (2015) – vision	<ul> <li>Section 7</li> <li>The proposal does not comply with the vision (bullet points) in the West Dorset, Weymouth and Portland Local Plan (2015). Stated as: <ul> <li>Have maintained and enhanced the unique character of the island in terms of its built and natural assets, whilst thriving economically and socially for the benefit of residents and visitors;</li> <li>Be the home of specialist maritime industries</li> <li>Have a broad tourist offer including activity based in sustainable tourism (water sports, climbing, walking and bird watching) that capitalises on its unique location.</li> </ul> </li> </ul>	This comment fails to include the full text in the second bullet point "is the home of specialist maritime industries and other growth sec unique location, providing it with a good supply of well-paid jobs the community and wider area. Portland Port will have maintained and of national and international importance as a location for sustainable. There is also a fourth bullet point that has been omitted which state "has reduced the levels of multiple deprivation and has good educated The comment therefore presents an incomplete picture of the plan



hat is part of the England margin is private land to public access or land England Coast Path, es 9.46 and 9.47 in the ES essible to the public within tal margin assesses views Port, Portland Marina and 3/81 on the steep cliff face ge Coastline and the Dorset receptors cover the same visual impacts from the

n these two areas and the m this area as set out in the

employment site and the inded to 'cement' the brownfield site located ission for the development of om end-of-life tyres, which nt.

which should read:

tors that benefit from its nat benefit the local ' expanded its role as a port le job creation".

es:

ation and skills provision'.

's wider vision.



### 14. Natural Heritage

Other consultees

Item	Торіс	Summary of consultation comment	Applicant response
	Freeths (on behalf of the Po	ortland Association)	
14.1	SHRA – lack of sufficient detail and signposting	Paragraphs 12 and 13 Where supporting information is provided in other supporting application documents this has not been explained in sufficient detail in the shadow HRA. Nor has there been any, or any sufficient signposting in the shadow HRA of other relevant data / evidence / paragraph numbers of other documents / sources to assist anyone reading it to understand the basis for the conclusions drawn.	The Freeths consultation response (see paragraph 8) makes clear to by its legally qualified professionals are based on the shadow HRA that the legally qualified professionals have not undertaken a review documentation, submitted as part of the application, to determine is conclusions of the shadow HRA perhaps reflects the limited nature commissioned, rather than any short-comings of the shadow HRA information. Dorset Council, as the competent authority, will have a supporting documents when undertaking its HRA and will no doub carefully review all the supporting documents to ensure they support shadow HRA they will undertake. The legally qualified professionals will also be fully aware there is not appropriate assessment that a competent authority has to follow. The of signposting (see paragraph 12) is a fundamental problem (see para duration and scale of the proposed plan or project and the interest 'Appropriate' is not a technical term. It indicates that an assessment and sufficient to support the task of the competent authority in deter project will adversely affect the integrity of the site. (https://www.go
14.2	SHRA – approach to the likely significant effects (LSE) test	Paragraph 20 There is no explanation as to the basis for the decision to consider European / Ramsar sites only within 10km of the ERF. The 10km search area has not been explained or justified. Why have the authors not considered European sites further afield (given that stack emissions / traffic emissions / water pollution impacts may well be felt further away than 10km from the proposed stack). Justification and explanation is needed. The justification must be linked to and evidenced by the potential pathways of impact that are relevant, including stack emissions, other sources of emissions from the proposed ERF and traffic emissions.	The next closest SPA/Ramsar/SAC is the Dorset Heaths/Dorset He modelling undertaken by Fichtner demonstrates that critical levels a emissions from the ERF are below 1% within 1km of the site for the on the very limited zone of impact it makes no logical sense to exter 10km. This approach has been confirmed as acceptable with Natu There are no credible impact pathways for traffic or water pollution sites over 10km from the site. The comments regarding zones of in beyond 10km are purely hypothetical. The likely significant effect te objective information and the risks must be real, not hypothetical (E 2009). This comment does not appear to be applying the relevant significant effects test for this application. The 10km search area was taken from the EA guidance and is star applications. In addition, the 10km search area was discussed and England prior to the preparation of the documentation as an appro this application.
14.3	SHRA – road traffic emissions beyond 10km	Paragraph 23 In the case of traffic emissions, there must be consideration of likely routes of traffic to / from the ERF and then a search for European / Ramsar sites along those routes which might be affected (and hence the area of impact may well be more than 10km from the ERF facility).	A revised assessment looking at in-combination effects has been u sites where plausible in-combination effects relating to traffic emiss submitted to Natural England (the statutory nature conservation or Council as the competent authority.



that the observations made document alone. The fact v of other relevant if they support the e of the review and its supporting access to all of the relevant of take the necessary time to port the conclusions of the

o framework for an Therefore, to suggest a lack aragraph 13) is inaccurate.

on the nature, location, features of the relevant site. nt needs to be proportionate ermining whether the plan or bv.uk/guidance/appropriate-

eathlands. The air quality and loads related to e closest NSN site. Based and the search area beyond ural England.

impacts on terrestrial NSN mpact potentially occurring est must be based on Boggis vs Natural England case law to the likely

ndard for these types of d agreed with Natural priate zone of influence for

undertaken for those NSN sions may occur has been ganisation) and Dorset

Item	Торіс	Summary of consultation comment	Applicant response
14.4	SHRA - omission of any assessment of impacts on the Studland to Portland SAC European marine site	Paragraph 24 The shadow HRA gives no consideration of impacts on the Studland to Portland SAC European marine site. This is the case even though it is mentioned on Figure 1 as being within the 10km search area selected in the shadow HRA and even though marine pollution is a clear pathway of impact from the ERF and there is discussion of potential marine pollution impacts e.g. in section 5 (5.88) and section 6 (6.6, 6.9).	No critical levels or loads are available for this marine site. Pollutant le negligible as site either downwind or 6km to east of site. ABPmer ha information provided for the application and has concurred with the pollution presents no credible risk to the Studland to Portland SAC (a Addendum).
14.5	SHRA - failure to consider all qualifying features for European site	Paragraphs 27 to 30 A HRA must be undertaken "in view of the conservation objectives" of the relevant European sites (see regulation 63(1)) and also must consider each and every qualifying feature of each of the relevant European sites (see the case of C-461/17 Holohan v An Bord Pleanála). The shadow HRA fails to consider all the qualifying features even of the European sites that the author has selected to consider. Paragraph 4.9 lists the qualifying features of Chesil and the Fleet SAC but it omits two qualifying habitats: (i) Coastal vegetation outside reach of waves; and (ii) Mediterranean saltmarsh scrub. This means that there can be no confidence that all qualifying features of the other relevant European sites have been included.	The shadow appropriate assessment assesses impacts where there credible risk pathway that may result in an LSE. It has not listed all th features have been excluded from consideration. The receptors whe considered likely was discussed with Natural England prior to submi benefit of the competent authority details of all the qualifying features revised document.
14.6	SHRA - relevant impact pathways in relation to all the relevant qualifying features	Paragraphs 32 to 46 There is a failure to consider/address adequately all relevant impact pathways in relation to all the relevant qualifying features. The shadow appropriate assessment omits assessment of functionally linked land (mobile species – bird and great crested newt). The assessment omits details of noise, odour, visual and the stack obstructing bird flights. No explanation is provided of why possible impacts have been dismissed. The assessment doesn't assess the risk of untreated IBA and contamination of the marine environment. The assessment doesn't explain why pathways have been screened out. Crookhill Clay Pits SAC –suggested failure to consider impact of road traffic.	<ul> <li>The legal author has identified a long list of hypothetical impacts that of the application site, the surrounding non-designated habitats, the species or the interest features of the NSN sites.</li> <li>They do however recognise that the likely significant effect test must information and the risks must be real, not hypothetical (Boggis vs N author does not appear to be applying the relevant case law to the lift for this application.</li> <li>For example, the Marine Accident Investigation Branch report on the on a ship carrying IBA (referenced in paragraph 37) shows that the ir environmental impact. The report also notes that the vessel did not so damage. Identifying the presence of IBA as a potential LSE based or appears to be stretching the definition of real risks beyond the upper It is unclear how the legal author has identified impacts on functional issue for the shadow HRA (see paragraph 34) for great crested new (paragraph 35) may impact on Annex 1 habitats.</li> <li>As highlighted by the legal author in paragraph 38, caselaw requires only conclude "no LSE" in relation to a pathway of impact to any NS objective information, there is no risk (<i>with the exception only of hypo</i> site (emphasis added). The competent authority should apply this ac content of paragraphs 34 to 37 which are dedicated to identifying a associated with the proposal.</li> <li>It is perfectly possible for a screening decision to be made based on contribution and low background levels of pollutants (significantly be and loads). As highlighted earlier the observations made by the legal shadow HRA document alone. The competent authority will have ac documents when undertaking their HRA and will no doubt take the t supporting documents to ensure they support the conclusions of the supporting documents to ensure they support the conclusions of the supporting documents to ensure they support the conclusions of the supporting documents to ensure they support the conclusions of the supporting documents to ensure they support the conc</li></ul>

t levels from ERF likely to be have reviewed the e view that aerial and marine C (appendix 9.2 to the ES
ere is considered to be a
here impacts were mission of the SHRA. For the res have been included in the
nat do not reflect the location ne ecology of qualifying
ist be based on objective Natural England 2009). The e likely significant effects test
he incident of the explosion e incident did not cause any t suffer any structural on the cited evidence permost limits.
nally linked land as a key wts, or how odour
es that Dorset Council may ISN site where, based on <i>pothetical risks</i> ) to the NSN advice when considering the a range of hypothetical risks
on an insignificant process below relevant critical levels gal author are based on the access to all the supporting e time to carefully review the their shadow HRA.



Item	Торіс	Summary of consultation comment	Applicant response
			<ul> <li>Crookhill Clay Pits SAC is adjacent to the B3157 Chickerell Road whave any significant increases in traffic as the lorries will follow a protect that does not run past Crookhill Clay Pits SAC. At the closest point from the affected roads.</li> <li>In respect to the comments made in Paragraphs 42.1 and 42.2 on Clay Pits SAC, it is clear that the author has based their comments document alone, overlooking the information relating to the routing clearly shown that there is no LSE relating to emission from traffic. credible basis.</li> <li>There is no indication as to why the author believes that the improvideveloped land around the junction of Fleet Lane and the B3156 is Crookhill Clay Pits SAC. These are further examples of the reviewer risks and the provideveloped for the provideveloped to the p</li></ul>
			risks for assessment contrary to case law.
14.7	SHRA - clarity of screening out pathways in respect to LSE	Paragraphs 43 to 46 There is a failure to provide any clarity as to exactly which pathways of impact for which European sites are being screened out as having "no LSE"; and which are being taken forward to the stage 2 appropriate assessment stage of HRA.	To assist the competent authority information on the impact pathw have been provided in the updated assessment document.
14.8	SHRA – application of Natural England's air quality (traffic) guidance	Paragraphs 47 and 48 One of the pathways of impact acknowledged by the authors is air quality impacts from traffic. On this basis NE's air quality guidance on the LSE screening test must be followed. The shadow HRA's screening assessment makes no mention of this guidance and there is no evidence that the screening assessment has followed it.	The updated air quality assessment prepared by Fichtner addresse ammonia. This has been addressed as part of the ES Addendum. A separate produced which includes transects showing the impact of emission the Isle of Portland to Studland Cliffs SAC and Chesil and The Flee been fed into the Shadow Appropriate Assessment
14.9	SHRA – consideration of in combination effects at the LSE stage	<ul> <li>Paragraphs 49 to 56</li> <li>There has been no attempt to address the issue of "in combination effects" at the LSE stage. The authors seek to argue that there is no LSE from the project on the Crookhill Brick Pit SAC. Quite apart from the fact that no / no adequate reasoning has been provided, the explanation fails completely to address in combination effects.</li> <li>This is a particular concern with regard to emissions from the proposed ERF. The screening section of the shadow HRA does not explain how the proposed stack meets the requirements of the guidance and in any event fails to address impacts of the stack emissions "in combination" air quality assessment at the HRA screening stage is well known, ever since the High Court decision in Wealden District Council v Secretary of State for Communities and Local Government, Lewes District Council and South Downs National Park Authority [2017] EWHC 351). The screening assessment in this shadow HRA fails to comply with these requirements. This is a major error.</li> </ul>	Revised air quality modelling has been undertaken for relevant SAC concentrations or deposition rates for relevant pollutants both alon other plans and projects. As there are no other significant point-source emitters on the Isle of from ships in the port has been included in the air quality modelling the only likely in-combination effect for on NSN sites off the Isle of
14.10	SHRA – compliance with the CJEU decision in "People Over Wind"	Paragraphs 57 to 59 The well-known CJEU case of People Over Wind confirms that mitigation measures (measures which avoid or reduce impacts on European sites) may not	The Crookhill Clay Pits SAC has been added into the assessment. issue as there are no significant effects on this site predicted.

which is not predicted to roscribed one-way system nt the SAC is over 275m

n impact on the Crookhill s on the shadow HRA g of traffic which would have These criticisms have no

ved grassland and s functionally linked to the ers identifying hypothetical

vays screened in and out

es in-combination traffic and

e technical note has been ons from road and the ERF at et SAC. These results have

Cs, which details changes in ne and in-combination with

of Portland and emissions g, emissions from traffic are Portland.

This is not a significant



Item	Торіс	Summary of consultation comment	Applicant response
		<ul> <li>be relied upon at the HRA LSE screening stage. Instead mitigation measures may only be considered and relied upon at the appropriate assessment stage.</li> <li>Paragraph 5.12 of the shadow HRA confirms that the shadow HRA author regards the proposed stack height as a mitigation measure. Yet at 5.15 and 5.16 the author screens out air quality impacts in relation to certain (unspecified) qualifying habitats and The Crookhill Brick Pit SAC. No explanation has been given.</li> <li>However in any event this appears to have been concluded in the light of the stack size, which the author has stated must be regarded as mitigation. On that basis the conclusion contravenes People over Wind.</li> </ul>	The amendments to the revised assessment document ensure that include mitigation at LSE screening stage (in this case increased statin line with the PoW judgement.
14.11	SHRA – requirements for the LSE stage	Paragraphs 60 and 61 What is required for the LSE assessment is actually completely standard in shadow HRAs produced by developers; and it is a real concern that this shadow HRA has not provided what is standard. Once there has been presented a clear, evidenced and justified approach to selecting the European / Ramsar sites which must be considered then what is needed, for each European / Ramsar site, is a table showing qualifying features, all possible pathways, assessment of these alone plus explanation of whether there is LSE alone or in-combination.	The legal author should be fully aware that there is no standard for L competent authority has to follow, and therefore to suggest a table is inaccurate. This comment (paragraph 61) represents the author's vie assessment might be done.
14.12	SHRA – HRA stage 2 appropriate assessment and no adverse impact on integrity test	<ul> <li>Paragraphs 62 to 68</li> <li>Under HRA rules, where it is concluded that there is a LSE from the ERF on any European / Ramsar site qualifying feature through any impact pathway then Dorset Council must conduct an appropriate assessment.</li> <li>Dorset Council must then decide if it can be certain that "there will be no adverse effect from the ERF on the integrity of any European site either alone or in combination with other plans or projects".</li> <li>As a matter of law, consent for the ERF may not be granted unless Dorset Council can be certain that that "there will be no adverse effect from the ERF on the integrity of any European site either alone or in combination with other plans or projects".</li> <li>As a matter of law, consent for the ERF may not be granted unless Dorset Council can be certain that that "there will be no adverse effect from the ERF on the integrity of any European site either alone or in combination with other plans or projects". This is a legal requirement. It is not a matter of planning discretion.</li> <li>Dorset Council will no doubt be aware of the caselaw relating to the strict standard of assessment required for an appropriate assessment and the subsequent "adverse effect on integrity test".</li> <li>Reference is made to best scientific knowledge and no reasonable scientific doubt remaining (CJEU C-127/02 paras 54 and 61) and there cannot be lacunae (CJEU-164/17 para 39). The plan or project in question may be granted authorisation only on the condition that the competent national authorities are convinced that it will not adversely affect the integrity of the site concerned (CJEU case C-127/02, paragraph 56).</li> <li>The shadow HRA (appropriate assessment) is considered to fail to meet these strict requirements.</li> </ul>	The requirements are noted. However, the conclusion that the shade rejected.

the requirements not to
ick height) is complied with,



or LSE assessment that a le is the standard is s view on how an LSE

adow HRA fails these tests is

Item	Торіс	Summary of consultation comment	Applicant response
14.13	SHRA –consideration of all qualifying species and also other species necessary to the conservation of these qualifying features	Paragraphs 69 to 71 The CJEU decision in Holohan requires an appropriate assessment to consider all qualifying species of each relevant European site and also any other species which are "necessary to the conservation of the qualifying features". The shadow appropriate assessment does not meet either requirement.	As the legal author of this comment will be fully aware, there were were very requirements for the Annex II species in the Holohan case. The Anne relied on the presence of another species to allow it to complete its Isle of Portland to Studland Cliffs SAC supports populations of the gentian. This species is not known to rely on any particular species to complete its lifecycle. Potential air quality impacts on the Annex II species (great crested in SAC have been ruled out as discussed earlier in the response ((see
			Despite the hypothetical impacts identified by the legal author of th considered there are any other plausible impact pathways on the ir Crookhill Clay Pits SAC that require consideration.
			aquatic vegetation used for egg-laying by great crested newts wou by the proposed development. It is not considered necessary to a realistic impact pathway exists.
			ABPmer has reviewed the information provided for the application a view that aerial and marine pollution presents no credible risk to the (appendix 9.2 to the ES addendum).
14.14	SHRA – consideration of all	Paragraph 72	The applicant sought to agree all relevant impact pathways with Na
	and all impact pathways	There is a failure to consider / address all relevant European sites and all impact pathways. The failures in relation to these points are carried through into the shadow appropriate assessment which is also therefore deficient.	those where there is a realistic impacts covered in the shadow appro- those where there is a realistic impact pathway. It is correct that the assessment does not cover the wide range of hypothetical impact requiring consideration by the legal author of this comment. As sup and as set out earlier in this response to this criticism (see response requirement to assess hypothetical impacts.
14.15	SHRA – consideration of	Paragraphs 74	At the time of preparation of the sHRA it was not believed there wa
	functionally linked habitat outside of European/Ramsar sites.	There is a failure to consider impacts on functionally linked habitat outside the European / Ramsar sites. As is the case in the screening assessment, this is also omitted from the shadow appropriate assessment.	and outside the INSIN sites that need to be considered. It is correct appropriate assessment does not cover the wide range of hypothe identified as requiring consideration by the legal author of this com- relevant caselaw, and as set out earlier (see response to 14.6) in th there is no requirement to assess hypothetical impacts.
			In July 2021 Natural England notified the applicant that potential su grassland) had been identified in a new study undertaken by Dorse Centre). This grassland (not surveyed at the time of this response) i grounds of HMP The Verne. The air quality consultants have confir undertaken covers this area. The information currently available is s there will be no adverse impacts on integrity of the SAC
14.16	SHRA – reference to bird survey data	Paragraphs 76 and 77	As a legally qualified professional, the author should be fully aware do not set any standards for bird surveys to inform assessment of i
		No reference is made to any bird survey data collected to support the shadow appropriate assessment in relation to the Chesil Beach and the Fleet SPA/	Ramsar sites. To imply that there are standards and that have not l
		Ramsar. It is standard that development applications such as this would be supported by bird survey data to assist in assessing impacts of the ERF on the qualifying species of the SPA / Ramsar both when in the SPA / Ramsar and when using other land / sea outside the SPA / Ramsar site. Claims are made by Powerfuel in the shadow appropriate assessment about the behaviour of certain qualifying bird species but this is without any supporting evidence / data (e.g. 5.82 and 5.83). This is not adequate	The comments made regarding a lack of survey data demonstrates the amount of baseline data for the site that is freely available and t SPA species and the habitat impacted by the development. The int contained in paragraphs 5.82 and 5.83 could have easily been che little tern colony is well documented and even a basic knowledge of wigeon would allow the comment in 5.83 to be substantiated.

# very specific ecological

nex II species in question s reproductive cycle. The Annex II species early s of insect, bird or mammal

newt) at Crookhill Clay Pits e response to point 14.6). his comment, it is not nterest features of the

itified, the marginal and Ild therefore be unaffected issess impacts where no

and has concurred with the e Studland to Portland SAC

atural England in preopriate assessment are e shadow appropriate pathways identified as oported by relevant caselaw, e to 14.6) there is no

as any functionally linked t that the shadow etical impact pathways ment. As supported by his response to this point

upporting habitat (calcareous et Environmental Records is situated within the med that the modelling work sufficient to conclude that

that the Habitat Regulations impacts on SPA and been followed is inaccurate.

s a lack of understanding of the ecology of the relevant formation on SPA species ecked. The location of the of the feeding ecology on



Item	Торіс	Summary of consultation comment	Applicant response
			The legally qualified author who undertook this review does not apper professional ecological advice when preparing this response. The co doubt seek ecological input when undertaking their HRA.
14.17	SHRA – "in combination" shadow appropriate assessment of the ERF project with other plans and projects, and omission of agricultural plans and projects	Paragraphs /8 to 86 There is a failure to undertake correctly an "in combination" shadow appropriate assessment of the ERF project with other plans and projects. The shadow appropriate assessment must consider the impacts of the ERF project both alone and in combination with other plans and projects. Section 6 of the shadow appropriate assessment purports to undertake an "in combination" assessment. But it is incorrect and / or inadequate. An in combination assessment under HRA requires the assessor to identify a zone of influence around each of the European / Ramsar sites of concern to reflect the maximum distance from which each impact pathway of impact. It is therefore not correct to identify a zone of influence around the proposed project location i.e. here around ERF. This is because the law is requiring an assessment of the impacts on the European site that the subject project is having together with any similar impacts on that same European site from other plans or projects. The author has not explained at all how the in combination projects listed in 6.2 have been identified. Table 3 is described as looking at "other projects in the area" which is unclear. It does not seem however that the author has identified the zone of influence of each relevant pathway of impact, as is required, nor does it seem that the author has considered zones of influence by reference to the locations of the European / Ramsar sites. Table 3 and paragraph 6.3 rely on "distance" as the apparent basis for why there is no "in combination" effect between the ERF and certain other projects. But no distance figures or reasoning has been provided. This is wholly inadequate. An appropriate assessment "may not have lacunae and must contain complete, projects and the appropriate assessment may not have lacunae and must contain complete, sorther appropriate scientific doubt as to the effects of the proposed works on the projects and the appropriate assessement at paragraph 5.20 states that where a particular "PC	It is incorrect to state that the application of a zone of influence arou under HRA to determine in-combination effects. The legislation and any such requirement. This comment simply represents the view of a in-combination assessment might be done. The scope and content of an appropriate assessment will depend or duration and scale of the proposed plan or project and the interest fi 'Appropriate' is not a technical term. It indicates that an assessment and sufficient to support the task of the competent authority in deter project will adversely affect the integrity of the site. The applicant co- authority can determine what is an appropriate method for determinin Further information on the identification of projects identified for the ' assessment will be provided in the revised shadow AA. The reference projects demonstrates a clear misunderstanding of the context of th another example of the legal author highlighting hypothetical risks. N projects have been identified as being proposed along the Fleet. Further information on the rationale used to determine no likely in-co out in Table 3 of the shadow HRA has been added to the revised do highlights this as an omission.

ear to have enlisted any ompetent authority will no

und the site is required case-law does not set out a legal reviewer on how an

on the nature, location, features of the relevant site. It needs to be proportionate ermining whether the plan or ontends that the competent ning in-combination effects.

"in-combination" ce to agricultural plans and ne sites and represents No significant agricultural

ombination effects as set ocument. This response



Item	Торіс	Summary of consultation comment	Applicant response
14.18	SHRA – consideration of critical levels and critical loads	Paragraphs 87 and 88 The discussion of critical levels and critical loads in the shadow appropriate assessment is incomplete / not sufficiently evidenced. There is no presentation of the underlying modelling data or any isopleth information to show how the conclusions have been drawn. There is merely a reference in the text to the "Fichtner" modelling. There is no Fichtner report listed in the References at the back of the shadow HRA. There is no explanation as to how in combination effects have been taken into account The analysis fails to address each qualifying feature of each European / Ramsar site, the analysis fails to address other species necessary for the conservation of	As highlighted in the author's review (see paragraph 8) the observe qualified author are based on the shadow HRA document alone. If highlighted as lacking could be found in the supporting document shadow HRA, and available to the author and the competent author The details of critical levels/loads thresholds are taken off APIS. The judgment (para 207) EWHC 3242 related to an SPA where backgi were exceeded. This is not the case for this application for the mark within the NSN sites.
		<ul> <li>the qualifying features</li> <li>The shadow appropriate assessment relies on supposed emission levels expressed as PC or PEC in relation to critical levels and critical loads but in most cases does not then go on to consider ecological impacts in relation to the qualifying features. This is contrary to the High Court judgment in Compton Parish Council.</li> <li>The shadow appropriate assessment lacks required detail / data e.g., one sees time and time again "given the distance of the European site from the ERF", but without any presentation of what the distance actually is.</li> </ul>	receptors may occur according to current knowledge. It follows the is below that given direct adverse effects on receptors will not occu applies where critical loads (alone and in-combination) fall below th is no chance of direct adverse effects on receptors according to cu the critical level/load remains below identified thresholds there are features to assess. Where exceedance does occur, this is fully ass
14.19	SHRA – impacts relating to traffic and ship emissions	Paragraphs 89 to 92 The shadow appropriate assessment in relation to traffic / ship emissions impacts is unclear. The shadow appropriate assessment contains discussion of traffic / ship emission impacts at paragraphs 5.94-5.97. Whilst concerns are raised regarding potential impacts, no data or evidence is presented to support the conclusions and the conclusions themselves are not clear.	The revised air quality modelling sets out the impacts related to trac The assessment has been carried out on the basis of the impact or reduction in emissions from shipping as a result of the provision of mean that shipping when berthed would not need to use their on b Thus the results presented in the HRA are precautionary. The impact of the ERF is not significant and the provision of shore emissions of NOx and SO2 (of which would have impacts on ecolo
14.20	SHRA – Chesil Beach and the Fleet SPA/Ramsar – consideration of acid deposition	Paragraphs 93 and 94 There is an omission of consideration of acid deposition impacts on Chesil Beach and the Fleet SPA / Ramsar sites.	The APIS website clearly states that neither wigeon or little tern are impacts on broad habitats and there would be no expected negati- due to impacts on the species broad habitat.
14.21	SHRA – Portland to Studland Cliffs SAC and Studland to Portland Marine SAC – consideration of impacts on water pollution	Paragraphs 95 and 96 There is an omission of consideration of impacts of water pollution on Isle of Portland to Studland Cliffs SAC / Studland to Portland SAC. It is acknowledged that there may not be marine impacts on the Isle of Portland SAC but, if not, then this should be explained and if the screening assessment had been conducted as required then this would have been made clear).	Impacts on Studland to Portland Marine SAC excluded on the basi ABPmer have reviewed the information provided for the application the view that aerial and marine pollution presents no credible risk to SAC (appendix 9.2 to the ES addendum). There is no feasible impact pathway for Isle of Portland to Studland example of the legal author highlighting hypothetical risks.
14.22	SHRA – Portland to Studland Cliffs SAC – consideration of dust pollution impacts	Paragraphs 97 to 98 There is an omission of consideration of impacts of dust pollution on Chesil and the Fleet SAC even though its boundary appears on Figure 1 to abut the redline of the ERF.	Although the application red line extends towards the A354 it does Fleet SAC and a clear gap is discernible on Figure 1 between the re Fleet SAC. Due to the distance between the red line and the SAC r exists. This comment is based on a misreading of the submitted in

### ations made by a legally Auch of the information ation, referenced in the ority.

e Compton Parish Council round critical loads/levels jority of the interest features

of the shadow HRA) that if ct adverse effects on herefore that if the critical level cur. The same rationale he thresholds given. If there current knowledge because no impacts on qualifying sessed.

ffic.

f the ERF excluding the shore power which would board engines for power.

power would reduce ogy).

e sensitive due to acidity ve impact on the species

sis of distance from site. n and has concurred with to the Studland to Portland

Cliffs SAC, this is another

not abut Chesil and the ed line and Chesil and the no impact pathway for dust formation.



Item	Topic	Summary of consultation comment	Applicant response
	Adams Hendry/Jonathan C	ox (on behalf of SPWI)	
14.23	SHRA – cumulative assessment	Part C Ecology and Biodiversity Paragraph 3.6 There is a lack of meaningful assessment of the proposed development with other proposed plans and projects in the area. This might include housing development resulting in increased road traffic and the development plans for Portland Harbour which could increase ship movements. The competent authority cannot determine their appropriate assessment of the proposed ERF until other plans or projects have been identified and the contribution these have to air quality has been assessed in combination with that derived from the development.	There are no other large permitted processes on the Isle of Portlan been carried out on the basis of the impact of the ERF excluding the from shipping as a result of the provision of shore power which wo when berthed would not need to use their on board engines for po- presented in the HRA are precautionary. The air quality modelling and likely significant effects (LSE) screening the proposed development are localised and only potentially signific proposed development and where the A354 crosses Chesil Beach revised air quality modelling captures traffic growth from projects of growth.
			considers in-combination effect of 4 policies on the Chesil and the Verne, BE3 – New business premises BE4 – New business centres Arc). The approved document, which will have addressed increase A354 and potential impacts on the European sites, did not recomm to air quality impacts for the growth on Portland covered by this pla
14.24	SHRA – Isle of Portland to Studland Cliffs SAC – presence of lower plants (liverworts and lichen)	Part C Ecology and Biodiversity Paragraph 3.7 to 3.9 Records indicate the presence of two rare liverworts on rocky outcrops in 1996 and two species of beard lichen on mature scrub (Usnea articulata and Usnea esperantiana). Lower plants are components of the wider calcareous grassland and scrub habitat for the site. They are highly vulnerable features of the habitat in close proximity to the proposed development.	The critical levels for ammonia, NOx and SO2 are below relevant le lower plants. Usnea articulata is known to be particularly sensitive t species from much of lowland England is believed to be due to SO Usnea articulata is found in areas defined as having 'pure' air on th scale (1970) designed to estimate mean winter sulphur dioxide leve using lichens growing of acidic tree bark . SO2 levels before and af well below those set for the protection of lower plants. Usnea articu- similar sensitivity to air pollution. The example of Usnea articulata is the only record from Portland be shrubs and in the canopy of woodland trees in the west of the cou- frequent. The example of Usnea esperantiana is also the only know species has been recorded from another six sites in the county. The lack of records of either species from the W21 and W22 scrub the Isle of Portland and the Isle of Portland to Studland SAC raises can be considered a typical species of the lichen communities of the Information on the distribution of calcareous grassland communitie defined by the air quality modelling provided by Dorset Environmen Edwards, 2021) demonstrates that the most important calcareous terricolous lichens is not present within the zone of impact. The rep far the most important for lower plants providing a habitat for sever bryophytes and lichens".
14.25	SHRA – Isle of Portland to Studland Cliffs SAC -use of Predicted Environmental Contribution (PEC) and the precautionary principle	Part C Ecology and Biodiversity Paragraph 3.10 to 3.13 The use of the PEC, below 70% of the critical level or load, may be several years old and is not reliable. The approach is not precautionary enough given small rises in levels of various pollutants.	The competent authority's attention is drawn to work undertaken be as recently as November 2017 where the Environment Agency three assessing impacts on the interest features of European sites. These identified as potentially unreliable, were considered by the author of be based on a suitable precautionary approach. The note states "it thresholds have been set by Environment Agency and Natural Engl precautionary approach required to conclude no likely significant effects.

### d. The assessment has ne reduction in emissions ould mean that shipping ower. Thus the results

ng has shown the impacts of cant in the vicinity of the n. The traffic modelling and on Portland and future

Appropriate Assessment Fleet SAC (EN8 – The s and BE6 The Northern ed traffic flows along the nend any mitigation related an.

evels set for protection of to SO2 . The loss of this 22 pollution.

e Hawksworth and Rose els in England and Wales fter the development remain ulata is believed to show a

ut it is found on mature nty where it can be locally vn record on Portland. This

o communities across both questions whether either ne SAC.

es within an area of search ntal Records Centre (B grassland community for port states that "CG1 is by ral of key Mediterranean

by Jonathan Cox Associates esholds were used for e thresholds, now being of the note (Jonathan Cox) to t can be assumed that these land taking the ffect".



Item	Торіс	Summary of consultation comment	Applicant response
			No evidence to support the assertion that the Environmental Agency guidance cannot now be safely relied upon has been provided by Jonathan Cox. The same author has previously applied this thresholds in the same way as has been done in the submitted shadow appropriate assessment. In that case, the author considered that making an assumption, regarding the precautionary approach to setting of thresholds by Environment Agency and Natural England, was entirely appropriate.
			There is no evidence provided to support the suggestion that the impact of air pollution may prevent this part of the SAC being restored to favourable condition. Levels of relevant critical levels and loads remain below those recommended on APIS for calcareous grassland.
14.26	SHRA - Isle of Portland to Studland Cliffs SAC – impact on important invertebrates	Part C Ecology and Biodiversity Paragraph 3.14 The SAC calcareous grassland habitat also supports important invertebrate populations characterised by the presence of the Silver studded blue and Adonis blue butterflies. Potential impact of changes from air pollution on the structure and composition of grassland	The Adonis blue is found on south-facing short chalk and limestone grassland where there is an abundance of the larval foodplant horseshoe vetch Hippocrepis comosa. Information provided by Dorset Environmental Records Centre highlight the localised nature of the colonie on Portland. The largest colonies seem to be in the centre and north at High Angle Batteries, Penn's Weare and Tout Quarries. Within the Isle of Portland to Studland Cliffs SAC there are important colonies around Lulworth and on Ballard Down.
			It should be noted that Unit 33 of the SAC is currently dominated by scrub and is north-facing This does not currently provide suitable habitat for Adonis blue. The critical load for calcareous grassland within the SAC is not exceeded so there should be no impacts on Adonis blue.
			Silver-studded blue has declined significantly and is only known now from less than 10 colonies, the main ones being at Broadcroft Quarries and near Nicodemus Knob, with smaller ones at High Angle Batteries, King Barrow Quarries and Tout Quarries.
			At Broadcroft Quarry surface scraping has been employed to create the conditions favoured by Silver-studded blue and the ants (primarily Lasius niger, also L. alienus). Given the limited mobility of adults (generally circa. 50m) this area is outside most of the key areas known to support this species. As with Adonis blue it is typically found in sheltered conditions and south facing slopes. Food plants comprise black medick, common bird's-foot trefoil, common rock- rose, gorse and horseshoe vetch.
			A paper in conservation evidence indicates that successional vegetational changes within Broadcroft Quarry necessitated intervention (de Whalley et al, 2006)3.
			It should be noted that Unit 33 of the SAC is currently dominated by scrub and is north-facing This does not currently provide suitable habitat for silver studded blue. The critical load for calcareous grassland within the SAC is not exceeded so there should be no impacts on silver studded blue.
			There is a single record of Portland Ribbon Wave. This species inhabits open grassland and scrubby areas on coastal limestone in Britain. Larval foodplants are unknown but captive larvae have been recorded feeding on bramble, lady's bedstraw, travellers joy, honeysuckle and dandelion (Waring and Townsend, 2017)4. Given the range of foodplants larvae have been recorded feeding on and the nature of the habitat used by this species, the changes in air quality are not considered likely to impact on this species.



<sup>&</sup>lt;sup>3</sup> De Whalley, L., de Walley, B., Green, P., Gammon, N and Shreeves, W (2006) Digging scrapes to enhance silver-studded blue Plebejus argus habitat at Broadcroft Quarry, Isle of Portland, Dorset, England. Conservation Evidence, 2006. 3. 39-43.

<sup>&</sup>lt;sup>4</sup> Waring, P and Townsend, M (2017) Field Guide to the Moths of Great Britain and Ireland. Third Edition. Bloomsbury Wildlife Guides. London.

Item	Topic	Summary of consultation comment	Applicant response
			The grey bush-cricket Platycleis albopunctata has been recorded for critical load for calcareous grassland not exceeded so there should habitats that support the invertebrate populations referred to.
14.27	SHRA - Chesil Beach and the Fleet SAC - assessment of vegetation communities	<ul> <li>Part C Ecology and Biodiversity Paragraph 3.16 to 3.20</li> <li>The process contribution (PC) for ammonia will exceed 1% of the critical level and is 0.9% of critical load for nitrogen.</li> <li>The assessment correctly identifies that the site supports areas of the Annex I habitat type referred to as Perennial Vegetation of Stony Banks, but considers this to consist only of the vegetation communities described by the National Vegetation Classification as SD1 Rumex crispus-Glaucium flavum shingle community. It dismisses other maritime grassland vegetation on Chesi Beach (MCS and MC8) as not being a component of the Perennial Vegetation of Stony Banks habitat type (paragraph 5.54). This conclusion is based on an erroneous use of the EU Interpretation Manual only provides a guide to those national vegetation classifications that equate to the Annex I habitat type, it does not provide an exhaustive or exclusive list of equivalent vegetation communities.</li> <li>The NVC describes vegetation types and not habitats. Although a vegetated to that habitat, but can occur in other habitats. For example, the Annex 1 Vegetated Shingle habitat can include examples of saltmarsh and even woodland NVC communities.</li> <li>A better understanding of the relationship between vegetation communities and vegetated shingle habitat is available in the Natural England commissioned report NECR054 on Coastal Vegetated Shingle</li> <li>The applicant has therefore not assessed the MCS and MC8 communities as vegetated shingle but rather treated them as maritime cliff.</li> </ul>	It is assumed that the correct paragraph reference here should be is stated in this comment). The reference to the EU Interpretation Manual attributing MC5 and vegetated sea cliffs of the Atlantic and Baltic coasts was purely to hantbority the difference in critical loads given on APIS for the two hants to be appropriate to apply a blanket critical load across all the hat habitat perennial vegetation of stony banks community. This Annex wide range of NVC communities. Paragraph 5.64 does not actually grassland are not part of the Annex 1 habitat perennial vegetation of states "The EU interpretation manual identifies the NVC community characteristic of the Annex 1 habitat type perennial vegetation of stony banks community characteristic of the Annex 1 habitat type perennial vegetated sea cliffs of the Atlantic and Baltic Coasts." Both statem Para 5.63 highlights the different vegetation communities considere habitat perennial vegetation of stony banks by Footprint ecology. S provided for the N critical load for one SAC in the UK - Dungeness. relevant critical load for perennial vegetation of stony banks (H1220 (same as acid grassland) with the lower end of the range used to p communities. Table 2 of the NERC054 Coastal vegetated shingle report (Murdoc vegetation types relevant to H1220 recorded at Dungeness as bein U1/U1a, MC8/MC8c/MC5. Crowther and Groome (2005) list the N along the western side of the A354: SD1 (various), SM25, MC5, MC Ecology (2018) list the NVC communities recorded along the wester (various), SM25, MC5, MC8, MC11, SM14 and SM25. SD1, MC5 and MC8 communities as Chesil. The critical load for the ange used to protect lichen-rich communities at nos. The regotion communities as the S. The period nose that MC8 grassland requires a relatively he the shingle matrix before coming into its own. All this would suggest that the lower end of the critical load for the as any to be appropriate for those parts of the SAC supporting mari communities. As this comment recognises, the Annex 1 habitat type stony

<sup>&</sup>lt;sup>5</sup> Murdock, A., Hill, A.N., Cox, J. & Randall, R.E. (2010) Development of an evidence base of the extent and quality of shingle habitats in England to improve targeting and delivery of the coastal vegetated shingle HAP. Natural England Commissioned Report, Number 054. Natural England. Peterborough.

rom Castletown area. The be no impacts on the

5.64 (rather than 5.54 as is

MC8 to the Annex 1 habitat highlight to the competent abitat types, therefore it may bitat types of the Annex 1 1 habitat type covers a state that MC5 and MC8 of stony banks. It simply es SD1 community as the etation of stony banks. The ties to the Annex 1 habitat nents are factually correct.

ed to fall into the Annex 1 Site specific advice is only . This recommends a site 0) of 10-15kg/N/ha/yr. protect lichen-rich

k et al, 2010)5 list the ng: SD1, MG1/MG1a, IVC communities recorded C8 and MC11. Footprint ern side of the A354: SD1

ness. The applicant draws supplied by Natural England ich supports a number of at site is 10-15kg/N/ha/yr. nities.

e element of fine-grained is that noted for the MC8 high sand/silt component in

given for vegetated shingle itime grassland be perennial vegetation of t does not seem credible varied communities listed in 10).





Item	Торіс	Summary of consultation comment	Applicant response
			APIS information for Portland Harbour Shore SSSI (the area east of SM14 (littoral sediment – Atriplex portulacoides saltmarsh) and MC Festuca rubra – Armeria maritima grassland) listing lichens and bryd a N critical load of 20-30 for saltmarsh habitat and no N critical load noting that it is sensitive to N deposition. Information on Hamm Beach provided by Dorset Environmental Re notes the more open stands of MC8 and the few very small stands Syntrichia ruralis var. ruraliformis which is typical of more calcareou cupressiforme var. lacunosum forming extensive patches in places acrocarpous Pleurochaete squarrosa (NS) which is found as small the Syntrichia. Pleurochaete is a moss of open calcareous grasslar
			from two sites on Portland with around 15 scattered populations in In Britain it is mainly found in Southern England and the coasts of V populations north to Morecombe Bay.
			This information shows that lower plants are not a major component communities along Hamm Beach. Photos of these communities ar appropriate assessment.
			Ammonia and NOx critical levels are exceeded within 4m of carriag The modelling for ammonia supports the conclusion of the NERC1 2016)6 which states. "Gaseous ammonia is thus unlikely to be a ke vegetation are more likely to arise from enhanced deposition of nitr environment. This elevation in soil nitrogen will be limited to areas v roads due to the high rates of deposition of this gas."
			Critical levels for NOx and NH3 will be exceeded with or without the N deposition (if the 8kg/N/ha/yr. critical load is applied). If any exce levels are deemed significant it would mean developments on the I legally be consented.
14.28	SHRA – Chesil Beach and the Fleet SAC – effect of nitrogen deposition	Part C Ecology and Biodiversity Paragraph 3.21 The shadow appropriate assessment relates the effects of N deposition on Chesil Bach with its effects on sand dune vegetation on acid and calcareous substrate. There is no evidence that shingle communities respond to differing substrate in the same way as sand dunes.	The shadow appropriate assessment does not directly link shingle vegetation. It just highlights the differences in Ellenberg scores for p dunes and those found on Chesil Beach suggesting that the plant of Beach are not indicative of strongly acid communities. The Ellenber many of the species that occur in the SD1 communities are typical intermediate fertility.
			The further information on lower plants supplied by Dorset Environr (Edwards, 2021) would support this conclusion with mosses typica grassland occurring along Hamm Beach.
14.29	SHRA – Chesil Beach and the Fleet SAC – impacts of ammonia on lower plant communities	Part C Ecology and Biodiversity Paragraph 3.22 The impact of ammonia deposition is of considerable concern, particularly in relation the lichen and bryophyte communities present on Chesil Beach. These	The revised AQ modelling submitted has addressed this. The amm protection of higher plants are below the relevant critical level exce carriageway.
		lower plants are a significant feature of the Annex I vegetated shingle habitat on Chesil Beach. The Shadow Appropriate Assessment dismisses them as not occurring within the pioneer shingle vegetation it considers is a component of the Annex I habitat type (Perennial vegetation of stony banks). However, lichens and bryophytes are frequent in some of the maritime grassland communities present,	The vegetation surveys undertaken by Crowther and Groome and I shown the MC5 grassland stands are located some distance from recorded stands over 90m from the A354. Rodwell notes that bryo frequencies throughout MC5 grasslands but in some sub-communattain up to 20% cover.

<sup>&</sup>lt;sup>6</sup> Smithers, R., Harris, R and Hitchcock, G. (2016) The ecological effects of air pollution from road transport: an updated review. Natural England Commission Report, Number 199. Natural England. Peterborough.

### f the A354) lists 2 habitats C8 (Supralittoral rock – yophytes as not present and ad for MC8 grassland, but

ecords (Edwards, 2021) s of SD19 support the moss us sand dunes, with Hypnum . Most notable is the scattered patches among and is currently known Dorset in short chalk turf. Wales with outlying

nt of the vegetation re provided in the shadow

geway but rapidly fall away. 99 report (Smithers et al, key issue, and effects on rogen to the soil within tens of metres of

ne project as will background eedance of these critical Isle of Portland could not

communities to sand dune pH for plants found in acid communities of Chesil erg scores also suggest that of sites with above

mental Records Centre al of calcareous dunes or

nonia levels set for the ept within a few metres of the

Footprint Ecology have the A354, with the closest ophytes occur at low nities they and lichens may





Item	Торіс	Summary of consultation comment	Applicant response
		for example, Groom and Crowther (2005)7 found 13 species of lichen and bryophyte in samples of MC5 maritime grassland on Chesil Beach. The impacts of ammonia on lower plant communities of MC5 grassland are not considered.	Lower plants recorded from the closest area of MC5 grassland were Campylopus introflexus, Cladonia furcata, Cladonia foliacea and Per Campylopus introflexus is a pioneer species of bare peat, burning of First recorded in 1941 it is now widespread across British Isles. Pel scattered distribution with a concentration of records in Hampshire widespread but local in turf on dunes and on gravelly and sandy so Additional information provided by Dorset Environmental Records C notes that Chesil Bank – the stabilised sandy-shingle area at Ferryt dominated by Red Fescue Festuca rubra and Thrift Armeria maritin diverse flora in the more open patches (MC5). The pleurocarpous n cupressiforme var. lacunosum is abundant and terricolous lichens a particularly Cladonia rangiformis and Peltigera canina, with smaller foliacea, C. furcata subsp. furcata, C. pyxidata and Peltigera hymer Thelenella muscorum was found overgrowing the moss Ceratodon these species are Red Listed or Nationally Scarce. The best areas of the north of the area of search beyond the Tern colony enclosure. If shadow appropriate assessment. The pebbles around Ferrybridge are generally poor for lichens due of stability, with the common Xanthoria parietina the only species for Xanthoria parietina is widespread across all of England and Wales. widespread and very pollution tolerant. Ammonia critical levels are exceeded within 4m of carriageway but modelling for ammonia supports the conclusion of the NERC199 re which states. "Gaseous ammonia is thus unlikely to be a key issue, are more likely to arise from enhanced deposition of nitrogen to the elevation in soil nitrogen will be limited to areas within tens of metre rates of deposition of this gas."
14.30	SHRA – Chesil Beach and the Fleet SAC – impact of ammonia on a rare moth species	Part C Ecology and Biodiversity Paragraph 3.23 Increases in ammonia deposition threaten the habitat of the very rare moth Scythris scicella.	The micromoth Scythris siccella Least Owlet (S41) is only known in where it is found in sparsely vegetated sandy habitats. The larvae fe plants making a silken tube covered in sand grains down into the s scale management and survey work there have been records of the however it is too early to say whether the species is extinct or not. None of the species recorded are particularly rare or localised sugg particularly sansitive to changes in air quality.
			Ammonia critical levels are exceeded within 4m of carriageway but modelling for ammonia supports the conclusion of the NERC199 re which states. "Gaseous ammonia is thus unlikely to be a key issue, are more likely to arise from enhanced deposition of nitrogen to the elevation in soil nitrogen will be limited to areas within tens of metre rates of deposition of this gas."
14.31	Chesil and the Fleet SPA and Ramsar – air quality effect on widgeon	Part C Ecology and Biodiversity Paragraph 3.25 and 3.26 The intertidal areas of The Fleet are important for wintering flocks of wigeon. These ducks feed on the seagrass beds that are exposed at low tide. There is evidence	Reference is made to relevant critical levels and loads. APIS provide 20-30kg/N/ha/yr. for littoral sediment. APIS shows that current level for habitats are below minimum critical loads.

<sup>&</sup>lt;sup>7</sup> Groom, G. and Crowther, K.C. (2005) National Vegetation Classification Survey of Annex 1 and listed habitats at Chesil and The Fleet SAC, Dorset.

# ......

re: Hypnum lacunosum, eltigera cf canina.

or ploughing for forestry. Itigera cf canina has a and Dorset. It is pils inland.

Centre (Edwards, 2021) oridge is well vegetated and na (MC8) with a much more moss Hypnum are present locally quantities of Cladonia nina. The uncommon n purpureus in 2009. None of of stabilised shingle are to Photos are provided in the

to disturbance and the lack ound with any frequency. It is extremely common and

rapidly fall away. The eport (Smithers et al, 2016) , and effects on vegetation e soil environment. This es of roads due to the high

h the UK from Hamm Beach feed on various herbaceous sand. Despite recent smalle moth in recent years,

gesting they are not

rapidly fall away. The eport (Smithers et al, 2016) , and effects on vegetation e soil environment. This es of roads due to the high

les a N critical load range of els of N and acid deposition



Item	Торіс	Summary of consultation comment	Applicant response
		that the extent of these seagrass beds has declined in recent years. The SPA and Ramsar site conservation objectives require that air pollution levels are maintained below critical loads and levels. The proposal may have an impact on sea grass beds affecting wigeon.	EMODNet <sup>8</sup> shows the extent of sea grass beds across the Fleet and clearly demonstrates that there is no seagrass present within 200m of the A354. (accessed 10/5/21).
14.32	ES - On-site ecology – value of open mosaic habitat	Paragraph 4.52 Part C Ecology and Biodiversity Paragraph 4.7 The Environmental Statement has ignored the value of open mosaic habitat within the proposed development site. This is a Priority habitat referred to in Section 41 of the NERC Act (2006) as a habitat of principal importance for the purpose of conserving biodiversity. The destruction of this habitat should be minimised and if possible avoided. The Applicant has failed to provide sufficient compensation to not only offset the loss of this habitat, but also to provide a net increase in biodiversity value.	The UK habitats classification of open mosaic habitat is very general and here applies to limited areas of short perennial, ephemeral and coastal grassland habitats, formed recently on a brownfield site. The value of this habitat type here is low in the context of its limited distribution and short timespan of establishment. There is significant provision of open mosaic habitat included in the proposed Biodiversity Plan and also significant off-site financial provision for local schemes relevant to the habitats present on site. This has all been agreed through consultation with Dorset Natural Environment Team (DNET).
14.33	ES - On-site ecology – description of habitat types and areas	Part C Ecology and Biodiversity Paragraphs 4.1 and 4.2 The ES describes the development site as being composed of three habitat types; Colonised hard-standing, Improved grassland and Scrub. It concludes that all three of these habitats are of Local/Low value. This description contradicts the vegetation and habitat description provided in Appendix K and paragraph 10.153 of the ES. Appendix K states that the development of the ERF would result in the loss of 0.5 hectares of open mosaic habitat together with areas of Scrub and Ephemeral/Short perennial vegetation. It makes no mention of Improved grassland. Chapter 10 of the ES (Natural Heritage) states that the development will result in the loss of 0.87ha of calcareous mosaic habitat.	The original assessment was undertaken using phase 1 classifications. The Defra metric uses UK Habs to attribute values to habitats. The definition of mosaic type habitats in simple terms is a combination of habitat types forming a contiguous area. This can include any habitat type, such as those listed. Definitions are likely to vary due to the differences in assessment types for habitat descriptions and then assessment through the BNG metric.
14.34	ES - On-site ecology – weight to be applied to open mosaic habitat	Part C Ecology and Biodiversity Paragraph 4.3 The presence of open mosaic habitat within this site is a significant feature as this is a Priority Habitat type as identified by Section 41 of the NERC Act (2006)9. The presence of Priority habitat types such as this must be given particular weight in planning decisions.	DNET have approved the Biodiversity Plan that provides significant areas of this habitat type on the site post development in perpetuity
14.35	ES - On-site ecology – value of open mosaic habitat in respect to breeding bird and invertebrate survey	<ul> <li>Paragraph 4.53</li> <li>Part C Ecology and Biodiversity Paragraph 4.4</li> <li>The presence of open mosaic habitat on this site is further supported by the results of bird and invertebrate surveys. This habitat type is known to be particularly rich in invertebrates. This has been supported by the results of invertebrate surveys undertaken as part of the ES and reported in Appendix K part 3 of the ES. The bird surveys also found a significant population of Black Redstart, another species typically found in open mosaic habitats.</li> <li>The proper assessment of impacts on the open mosaic habitat and the requirement for compensation for its loss can only be undertaken on the basis of full ecological survey. The levels of breeding bird and invertebrate survey submitted with the application are inadequate to permit such an assessment.</li> </ul>	The breeding bird habitat within the footprint of the proposed works is of negligible value due to a lack of vegetation and constant disturbance. The invertebrate survey effort was confirmed as suitable by the Dorset Natural Environment Team.

<sup>&</sup>lt;sup>8</sup> https://www.emodnet-seabedhabitats.eu/access-data/launch-map-viewer/?activeFilters=&zoom=13&center=-2.553,50.614&layerlds=502&baseLayerld=-3&activeFilters=



<sup>&</sup>lt;sup>9</sup> https://data.jncc.gov.uk/data/a81bf2a7-b637-4497-a8be-03bd50d4290d/UKBAP-BAPHabitats-40-OMH- 2010.pdf

Item	Торіс	Summary of consultation comment	Applicant response
14.36	ES - On-site ecology – loss of priority habitat type and need to achieve biodiversity net gain	Part C Ecology and Biodiversity Paragraph 4.5 The destruction of 0.87 hectares of a Priority Habitat type represents a significant loss of biodiversity value on this site. The Environment Bill10, currently in Parliament, will require that development should result in at least a 10% Biodiversity Net Gain. This will be calculated by reference to the Defra Biodiversity Metric. Open Mosaic Habitat is considered a habitat of 'high' biodiversity value in the Metric, of equivalent value to Calcareous Grassland. Its loss and destruction should not be permitted unless sufficient compensatory habitat is provided, not only to offset the loss of this habitat, but also to provide a net increase in biodiversity value.	A detailed Biodiversity Plan for the site has been agreed in conjuncti Environment Team. This includes significant relevant on-site provisio contributions to relevant local off-site projects.
14.37	ES - On-site ecology – provision of sufficient habitat compensation	<ul> <li>Paragraph 4.54</li> <li>Part C Ecology and Biodiversity Paragraph 4.6</li> <li>The current proposals for the development of the ERF will result in a significant net loss of biodiversity within the application site. The current mitigation proposals provide for the creation of 0.062 ha of mosaic habitat (ES Chapter 10, Table 10.9) to offset the loss of 0.87 ha of this habitat. This represents a significant decline in the biodiversity value.</li> <li>Substantially more habitat compensation and biodiversity gain should be provided as part of this proposed development.</li> </ul>	A detailed Biodiversity Plan for the site was agreed in conjunction wi Environment Team. This includes significant relevant on-site provisio contributions to relevant local off-site projects Whilst there is an overall loss of habitat area, the Biodiversity Plan er provide habitats of a significantly better quality than those currently p cannot be impacted by the daily port activities.
14.38	ES - On-site ecology – biodiversity value, avoiding habitat loss, habitat compensation and biodiversity net gain.	Part C Ecology and Biodiversity Paragraph 4.7 The ES fails to recognise the current biodiversity value of habitat within the proposed development. It also fails to demonstrate how the proposals have sought to avoid or minimise habitat destruction and fail to provide sufficient compensation to offset the loss of this. Furthermore, the proposals have failed to provide any biodiversity net gain, as required by the Environment Bill (2020).	As of July 2021, the new Environment Bill has not been passed thro therefore also no statutory requirements to provide a biodiversity net in the bill. The policy for achieving biodiversity enhancements in Dor Dorset Council Natural Environment Team (DNET) Biodiversity Appra requires a Biodiversity Plan (BP) to be produced, which provides det enhancement strategies for the site. Unless this BP is approved by D approval provided, an application cannot progress. Lindsay Carringt have worked closely with DNET on the Dorset BAP since its inception consulted at every stage of this applications progress, from initial de proposals. The biodiversity enhancement measures included in the s mitigation for the loss of on-site habitats and ensuring an overall net specific ecology in mind. This includes mosaic type habitats, black re- vegetation communities. The BP was approved by DNET as part of
14.39	ES - Bird survey - populations of importance to the Chesil and The Fleet SPA and Ramsar site.	Part C Ecology and Biodiversity Paragraph 4.8 The ES provides a substantial amount of information on wintering birds present in the vicinity of the proposed development. Bird counts are presented for the period October to March 2019. The results of these surveys do not indicate the presence of species populations of importance to the Chesil and The Fleet SPA and Ramsar site.	No qualifying bird species in relation to the nearby SPA sites were re surveys.
14.40	ES - Bird survey – Presence of Black Redstart and survey methodology	Part C Ecology and Biodiversity Paragraphs 4.9 to 4.12 Black Redstarts were recorded on the development site throughout the winter and into March. The winter bird survey, reported in Appendix K of the ES suggests that they may have also bred on this site, with a singing male heard in March. The ES Chapter contradicts this view and specifically states that these birds were not thought to have bred on the site. This conclusion may have been reached as a	Whilst potential evidence of breeding black redstart was recorded w proposed development area, there is no suitable breeding habitat fo boundary. Black redstart nest sites are typically within structures, or structures. No features of this type are within the areas of habitats t sites for black redstart are included within the biodiversity enhancem

<sup>&</sup>lt;sup>10</sup> https://www.gov.uk/government/publications/environment-bill-2020

ction with Dorset Natural sions and financial
with Dorset Natural sions and financial
enhancement proposals will y present in perpetuity, which
rough parliament. There are net gain of 10% as specified
borset, is specified through boraisal Protocol (BAP). This detailed mitigation and y DNET, with a certificate of agton Ecological Services tion. DNET have been design through to final e site BP are focussed on et gain, with site and local- c redstart and coastal type of this application.
recorded during winter bird
within the boundary of the for black redstart within this or on external ledges of s to be lost. Suitable nesting ement proposals for the site.



Item	Торіс	Summary of consultation comment	Applicant response
		result of the breeding bird survey undertaken in the summer of 2020. This was based on two survey visits in June and July. Breeding bird surveys undertaken this late in the summer are unlikely to record the full diversity of breeding birds. Two survey visits is too few to record rare and often elusive species such as Black Redstart. Good Practice advice for survey of breeding Black Redstart is provided on by blackredstarts.org.uk. They state:	
		"The following survey criteria has been drawn up by the BLACK REDSTART Action Plan Working Group for London and are recommended by the lead conservation agencies in London.	
		<ul> <li>In principle a known breeding site or likely breeding site should be surveyed throughout the breeding season; from May to August.</li> <li>At least one visit a week of 3hrs should be undertaken under favourable weather conditions (warm, windless days) in the early hours of the morning. Black redstarts are notorious for singing an hour before dawn and the visits should be timed to begin 1 hour before dawn.</li> <li>During 3rd and 4th week of May further visits should be undertaken during the day to locate nesting sites."</li> </ul>	
		Given the lack of survey effort, it is not surprising that no evidence of breeding Black Redstart was found at the proposed development site.	
14.41	ES - Bird survey – Black Redstart assessment and conservation	Part C Ecology and Biodiversity Paragraph 4.13 Whereas a population of wintering and breeding Black Redstarts could be integrated into the proposed development, it is important that their presence is fully assessed in the Environmental Statement both in their own right and as a component of the Open Mosaic Habitat in which they live. Retaining and enhancing this population of rare birds should be fundamental to the development, as required by planning and nature conservation policy. This will require a full commitment to incorporate their conservation into the future of the development.	Black redstart were considered within the proposals. There will be provided for the species through the BP, in addition to the extensi present. Furthermore, new nesting sites for the species are also to proposals.
14.42	ES - On-site ecology – presence of important bat species	Part C Ecology and Biodiversity Paragraph 5.1 The ES provides little information on the use of the proposed development site by bats. It is accepted that there are no bat roosts on the site, however, the cliffs and caves of the Dorset coast provide important roosts for rare bats, most particularly the Greater Horseshoe Bat, a species listed on Annex II of the EU Habitats Directive for which the nearby St Albans Head to Durlston Head Cliffs SAC has been designated. The ES states that Portland is known to have a relative paucity of bats, although provides no evidence to support this assertion.	The "nearby" sites for greater horseshoe bats referred to are appr over the sea in the Purbecks and are winter hibernation sites for the open caves or tunnels within the scope of the proposed ERF site foraging habitat for this species within it. The desktop search retur within 2km of the site. The proposals will be very low impact for be reduction in light levels on existing bat foraging habitats and throu new foraging habitats for this group of species. DNET approved the for the site.
14.43	ES - On-site ecology – nocturnal bat surveys	<ul> <li>Paragraph 4.55</li> <li>Part C Ecology and Biodiversity Paragraph 5.2 and 5.3</li> <li>The ES considers the habitat within the site unsuitable for bats although concedes that the south west fringe of the site could provide an attractive foraging and commuting route for bats. However, it considers the 'likelihood' of constant nocturnal lighting would deter bat use. The ES further states that nocturnal bat surveys were 'deemed unnecessary'. It is not clear how or why it reaches this conclusion.</li> <li>The lack of any nocturnal bat survey for the site is considered a significant short-fall in the provision of baseline ecological information.</li> </ul>	The habitats within the proposed works area are of low value to for The exposed nature of the site further degrades its suitability. The by vegetation recently and would have historically been of very low search did not return any significant nearby records for bat species provide suitable foraging and commuting habitat, however it is cur proposed renewed lighting scheme for the site will lower existing I and therefore improve its suitability for foraging and commuting ba
		<ul><li>The ES considers the habitat within the site unsuitable for bats although concedes that the south west fringe of the site could provide an attractive foraging and commuting route for bats. However, it considers the 'likelihood' of constant nocturnal lighting would deter bat use. The ES further states that nocturnal bat surveys were 'deemed unnecessary'. It is not clear how or why it reaches this conclusion.</li><li>The lack of any nocturnal bat survey for the site is considered a significant short-fall in the provision of baseline ecological information.</li></ul>	search did not return any significant nearby records provide suitable foraging and commuting habitat, h proposed renewed lighting scheme for the site will and therefore improve its suitability for foraging and



e extensive foraging habitat sive foreshore habitat already o be included as part of the

roximately 30km north east his species. There are no and a lack of suitable rned very few records of bats ats, due to an overall ugh the creation of extensive he bat section within the BP

oraging and commuting bats. e site has only been colonized w value to bats. The data es. The undercliff does urrently well lit at night. The light levels on the undercliff pats.

Item	Торіс	Summary of consultation comment	Applicant response
		It must be concluded that further survey is required to demonstrate the true value of the proposed development for bats. The conclusions in relation to bats cannot be relied upon in the absence of such information.	
14.44	ES - On-site ecology – presence of invertebrates and importance of the habitat	Part C Ecology and Biodiversity Paragraph 6.1 The invertebrates survey of the site was confined to a short survey period in the summer of 2020 (ES Appendix K part 3). Despite the short survey window, the survey recorded four nationally scarce species and 35 locally distributed species. Although not reaching SSSI qualifying levels, the report confirms the importance of the site for the priority Open Mosaic habitat.	Whilst the site did support nationally scarce and locally distributed i low extent of suitable habitats for those species within the site bour site significant at a local scale.
14.45	ES - On-site ecology – invertebrates survey	Part C Ecology and Biodiversity Paragraph 6.2 The level of survey undertaken is insufficient to fully characterise the value of the site for invertebrates. Further survey across the invertebrate recording season is very likely to reveal the presence of many more important species and further confirm the value of the habitat for invertebrate species. This is important in understanding the condition of the habitat within the development site and hence the quantum of compensation required to offset its loss.	DNET were satisfied that invertebrate surveys at the site were under frequency and scope to approve the Biodiversity Plan for the propo- mitigation and enhancement habitats will provide a higher extent of invertebrates, including those identified during the surveys in perpe
14.46	ES - Off-site ecology – invertebrates and impact on Silver studded blue butterfly	Part C Ecology and Biodiversity Paragraph 6.3 The impact of the development on invertebrate habitats outside of the development site is also considered in the ES Chapter 10. This confirms the importance of the SSSI habitat for invertebrates in particular the Silver studded blue butterfly. Portland is important for its population of this butterfly where it occurs in atypical calcareous grassland habitat, in contrast to its more common heathland habitat. The calcareous grassland form of Silver studded blue uses different larval food-plants to its heathland form. This is not appreciated in the ES which mistakenly states that its food plant is heather (para 10.90). The larval food plant of the calcareous form of Silver studded blue includes a variety of vetch species including Bird's foot trefoil, a species that appears to be widespread on the development site.	Silver studded blue is not present in the SSSI area on the underclift development site, as confirmed by the DERC Isle of Portland SSSI Limestone grassland is very sparse above the SSSI site due to the encroached by scrub. The proposed enhancement habitats will inc silver studded blue, which may allow them to colonise the site in th off-site payments will contribute to scrub clearance works on the u the availability of habitat for this species within the SSSI.
	SPWI		
14.47	Impact on the marine environment, protected areas and human health	Preserving the quality of the marine environment is critical in order to ensure the shellfish and other varieties of fish harvested from Portland Harbour and the nearby areas are fit for human consumption. In addition, the interdependency between the marine life inhabiting the waters and the conservancy of the marine environment is essential.	The potential impacts of the proposed ERF on the marine environm specialist marine consultancy ABPmer, and their report is submitted further environmental information under Regulation 25 of the EIA Re The report has considered potential impact on the marine environm Its principal conclusion is that 'The assessment demonstrates that
		Much of the sea around and to the south of Portland is protected as part of the <i>Studland to Portland Marine Protected Area (MPA)</i> . The site has been made an MPA to protect reef habitats in the waters around the island, which are regarded as being of excellent quality and supporting a high number of plant and animal species. The <i>Studland to Portland SAC</i> covers a lot of the area and wraps around much of Portland. There is also the <i>South of Portland Marine Conservation Zone</i> off Portland Bill, as well as the <i>Chesil Beach and Stennis Ledges Marine Conservation Zone</i> in the Lyme Bay area.	development during both construction and operation, do not exceed protection of human health, and generally emissions do not exceed loads from ecologically important pollutants such as NO <sub>x</sub> , SO <sub>2</sub> , and standards either alone or in combination with other plans or project critical loads are precautionary and have been designed to provide ecological features including those features protected within design sites'.
		Concern is raised over the potential impact of pollution from the facility in respect to the following:	The contribution to ocean acidification as a result of emissions to all:     ERE is assessed as pediaible
		Oyster beds and a range of other shellfish species in the marine environment	<ul> <li>On the basis of the relative concentrations of nitrogen (NO, waters (which is of many orders of magnitude greater than from the ERF) it is inconceivable that the small process control of the the the the small process control of the the the the the the the the the the</li></ul>





Item	Торіс	Summary of consultation comment	Applicant response
		<ul> <li>The impact of carbon dioxide emissions (and associated acidity) and particulates on marine ecology</li> <li>The economic impact on people who depend on the marine environment for their living</li> <li>The release of pollutants, such as heavy metals and persistent organic pollutants from the burning of plastics via emissions and ash</li> <li>Potential for an increased amount of mercury and impact on fishermen</li> <li>Areas of important seagrass</li> </ul>	<ul> <li>materially contribute to nutrient concentrations in adjacent contribute negligibly to any eutrophication. There is thus not such as seagrass that would potentially be sensitive to incr</li> <li>There is no risk to the seagrass feature associated with the SAC, SPA and Ramsar sites, nor is there any risk to feature Little Tern that are, to some extent, dependent on seagrass are no significant risks to features associated with the Portl or to local Marine Conservation Zones (Purbeck Coast, Sot Portland and Chesil Beach and Stennis Ledges).</li> <li>The air quality assessment presented in the ES has demon of mercury at ground level will not exceed relevant AOALs theatth.</li> <li>There are no significant risks to any of the local designated populations associated with mercury emissions either in ter quality standards or as a result of sediment contamination. associated with human consumption of local fish or shellfis</li> <li>The air quality assessment presented in the ES has demon of dioxins at ground level will not exceed relevant AQALs to health</li> <li>There are no significant risks to any of the local designated populations associated with dioxin emissions as a result of Nor are there risks associated with numan consumption of Consequently, there should be no rational basis to anticipa and shellfish related businesses and employment. There are water locations which host similar energy from waste faciliti (including for example a much larger EfW plant at Copenha is an active pursuit.)</li> </ul> Also in respect to potential marine impact from emissions to water: <ul> <li>There are no planned process effluent or foul water discharge These will be treated at Weymouth wastewater treatment v discharge from the plant. Nor will there be risks to people bathing.</li> <li>The handling of IBA will be subject to conditions in the EFN. The environment during operation of the EFF. All such discharge throwment, including the marine environment are ade mitigation and monitoring requirements will be incorpora</li></ul>
			human health.

### marine waters and thus will o risk to marine features reases in dissolved nitrogen. e Chesil Beach and the Fleet res such as Mute Swan or as habitat. Similarly, there tland to Studland Cliffs SAC buth Dorset, South of

nstrated that concentrations for the protection of human

d sites or to shellfish or fish erms of risk to marine water . Nor are there risks sh.

nstrated that concentrations or the protection of human

d sites or to shellfish or fish f sediment contamination. f local fish or shellfish.

ate a negative impact on fish re example of other edge of ties to the proposed ERF agen Harbour where fishing

rges direct to the marine ges will be made to sewer. works (WWTW) and land Harbour. The process onent of the overall significant risks to the process effluent or foul water associated with sea

vironmental Permit issued by This will ensure that risks to equately managed. Any of within the site's risks to any local designated lages or leakages of IBA can ne mitigation measures that his pathway are assessed as

his comment are unfounded (in respect to potential d areas or associated



# 15. Traffic and transport

### Other consultees

Item	Торіс	Summary of consultation comment	Applicant response
	Adams Hendry (on behalf o	f SPWI)	
15.1	Movements during scheduled shut-down and waste storage	Paragraph 4.57 It is noted in paragraph 11.17 of the ES that the ERF would only operate for approximately 11 months with scheduled periods of shut-down and that these periods of non-operational time were not included in the trip generation calculations to provide a robust assessment. In order for the conclusions of the assessment to be robust, confirmation is required that there would be no vehicle movements during these periods of shut-down and that the site would not simply stock-pile waste during this time pending the facility resuming operations	Annual shut down periods are programmed to allow for periods of a size of the fuel store allows for management of fuel flows in the ERF fluctuations in supply and stock piling during shut down periods. Vehicle movements will occur during periods of shut down and mar RDF as well as contractors vehicles undertaking maintenance. During periods of shut down there would be no ash removal which the 80 anticipated movements a day (on the basis of the Transport conservatively, it is assumed that all RDF supply and ash removal coverall during shut down periods there is anticipated to be fewer very when the plant is operational.
15.2	Scale and extent of the assessment	Paragraph 4.58 Given that the route to the site passes a Conservation Area, considered in the Institute for Environmental Assessment's Guidelines for the Environmental Assessment of Road Traffic as a sensitive area, the scale and extent of the assessment should include those areas where traffic flows increase by 10% or more.	Traffic flow increases are considered in Ch11 of the Environmental undertaken in general accordance with the IEMA Guidelines for the of Road Traffic and National Planning Practice Guidance. That asse impact is minimal with the 80 forecast traffic movements a day equ approx. 0.4% on Portland Beach Road. All links where increases a assessed within the EIA.
15.3	Baseline traffic flows – use of 2017 and 2019 data	Paragraph 4.59 The information presented on baseline flows in ES Table 11.3 appears to include data collected in both 2017 and 2019. It is not clear whether the data presented is an average of the baseline flows for the two years or whether some links used 2017 and others 2019. Further explanation is required. Where 2017 data has been used in particular, confirmation is required that there have been no material changes in traffic flows as a result of new development in the intervening period.	<ul> <li>Paragraph 11.1 of the Environmental Statement points readers tow Assessment (TA) for further information on the derivation of traffic fle</li> <li>Paragraphs 3.21 – 3.36 of the Transport Assessment set out in det derive baseline traffic flows.</li> <li>The usual traffic growth factors from TEMPro were applied to 2017 Transport Assessment, and those growth rates include planned de addition the appraisal included cumulative traffic from a series of low everything promoted for development within the Port, much of whice implemented.</li> </ul>
15.4	Baseline flows – annual average daily traffic and total daily traffic figures	Paragraph 4.60 The baseline flows reported in the Transport Assessment (TA) included at Appendix L1 of the ES are inconsistent with those included at Table 11.3 in respect of Link ref 6 (A354 Weymouth Way south of Granby roundabout). It is not clear how the annual average daily traffic (AADT) figures in the ES (Table 11.3) have been calculated or how they relate to the total daily traffic movements quoted in the TA.	It is noted that a transcription error occurred in table 11.3. This has not change the conclusion of the Transport Assessment. A revised transcription error is submitted within the Regulation 25 ES addend
15.5	Future baseline flows - justification	Paragraph 4.61 Future baseline flows at 2023 are included at ES Table 11.4 for all vehicles and Table 11.5 for HGVs. It is surprising to note that in the space of four years, the AADT figures for all links are assessed as increased significantly (see table below). For example, in Table 11.3 outbound AADT at Castletown (at port access) (Link Ref 1) has increased by 89% from 333 at the baseline (either 2017 or 2019) to	The large increases in traffic are due to the development already per place in the Port and are explained in detail in the Transport Assess 6.40 and Tables 6.8 & 6.9. The future year traffic flows have therefor and take account of the increases in traffic flow due to committed of Portland Port, in the future baseline. The effects of committed deve considered in the Transport Assessment.



annual maintenance. The <sup>-</sup> which will accommodate
y include some stocking of
accounts for 20 vehicles of Assessment under which, occurs by road) and so whicle movements than
Statement which has been Environmental Assessment essment concludes that the lating to an increase of are over 10% have been
vards the Transport ows.
tail the methodology used to
data, as outlined in the velopment traffic. In cal developments including ch has yet to be
been corrected and does table 11.3a rectifying this dum document.
ermitted to be able to take sment paragraphs 6.37- bre been correctly derived development, notably at elopment are fully

Item	Торіс	Summary of consultation comment	Applicant response
		2,927 by 2023. A similar increase in inbound AADT is also predicted from 333 to 3,877 or 90%. No explanation is provided to justify such an increase, suggesting an error in the reporting of baseline flows.	
15.6	Annual average daily traffic 2023 to 2033	Paragraph 4.62 In contrast to the massive changes in AADT flows in the four years between 2019 and 2023, the change in AADT over the 10 years 2023 to 2033 is much less significant, with flows on most links decreasing (see Table 2 below). The greatest change is on outbound AADT on link 4, A354 Buxton Road (Boot Hill) which sees a 28% increase in flows, all the other flows show a less than 20% change (in most cases, significantly less than 20%). Link Ref 1 sees a 5% reduction in outbound flows between 2023 and 2023 and a 6% increase in inbound flows.	The long term future growth of traffic to 2033 takes into account ge growth since the impacts of both the proposed development and t in the Port and on the Island are considered in the impact assessm It is likely that some of the modelled Port development will occur in spreading the traffic impacts over a longer period and reducing the
15.7	HGV baseline flows	Paragraph 4.63 Whilst future HGV baseline flows are included in the ES (Tables 11.5 and 11.7), no information is included on current baseline flows and therefore it is not possible to determine whether the estimate of future baseline flows is reasonable.	Whilst it is correct that the baseline HGV data was not shown in the included within Appendix B of the Transport Assessment. This indi flows and % HGV and for site 307 Portland Beach Road shows a 2 as 11.2%.
15.8	Baseline flow reporting and assessment conclusion	Paragraph 4.64 On the assumption that baseline flows have been reported incorrectly, it follows that the assessment of traffic impact with the proposed ERF will be incorrect and should not therefore be relied upon.	As outlined in response to earlier points the baseline flows used are council counts with logical assumptions made to bring data to a co Council highways officers will review the calculations and conclude assessment of traffic impacts has been undertaken correctly and m appropriate.
	Ramblers		
15.9	England Coast Path – impact on traffic	We note that the Stop Portland Waste Incinerator Campaign estimates that there could be an increase in articulated lorry movements of 200% at Castletown. This is the point at which England Coast Path users must cross the road. It is unacceptable for users of a nationally important path to have to contend with such traffic movements.	The additional anticipated lorry movements amount to only around submitted Transport Assessment. The high increases in traffic quot traffic generation from already permitted development at the Port w future. The path crossing the road at Castletown has dropped kerb aid pedestrians crossing on the path but the proposed ERF will cau 15 minutes to pass the location of the route of any ramblers, which normal level of interaction with traffic and significantly less than that Beach Road. It is therefore considered that Ramblers would not need to "conten vehicle movements and be able to follow their route in a safe mann



e reliable and taken from ommon baseline. Dorset whether or not the nake recommendations as

80 per day as set out in the ted are due to potential which may occur in the os and an island which will use only one vehicle every n is considered to be a t experienced on Portland

nd" with the proposed ner.



### 16. World Heritage Site

Statutory consultees

Item	Торіс	Summary of consultation comment	Applicant response
	Jurassic Coast Trust		
16.1	Visual impact – visible plume and introduction of industrial element to the setting of the WHS.	The overall impact of an operational ERF is not restricted to the presence of the building within the landscape. In spite of the sincere efforts to reduce its visual impacts, there is no escaping that it is a very large industrial building, beyond the scale of what is already at the port. For example, the lighting necessary for a facility of this size, particularly on the stack, means there will inevitably be a change to the balance in how the views out of the WHS are perceived to be of an industrial or natural coastline. Of more significant concern is the potential impact of a visible plume. The LVIA describes a visible plume as having minor effects for a limited time. I would not dispute the limited time element, but it is hard to accept a visible plume as having minor effects, considering that there are no other industrial facilities of this type or scale along the WHS. It would be helpful if the visual impacts of a visible plume were modelled in more detail using existing viewpoints with perhaps additions from the top of Portland itself. This would help greatly in understanding more fully the operational reality of the ERF. In summary, the application deals with impacts on the WHS fairly, with the exception of a detailed model for the visual impacts of a visible plume. My concern is whether or not an industrial development of this scale is appropriate within the setting of the WHS. The impacts of the structure itself on setting are not considered significant, but I question whether this reflects the ways in which an operational ERF might change how people perceive its surroundings as a natural or industrialised landscape	The Jurassic Coast trust response finds that the submitted EIA "de WHS fairly". Chapter 13 of the ES concerning the WHS, which was of chapter 7 cultural heritage and chapter 8 landscape, seascape a concluded that the proposed development would result in a mode OUV of the WHS. The response to the concerns raised in relation to the visibility of the relating to landscape, seascape and visual effects (table 13). This material and visualisations provided in relation to the appearance of time effects. The ES Addendum chapter 8 concludes that there w significance of effects as originally assessed and as incorporated in chapter 13.

### Other consultees

Item	Торіс	Summary of consultation comment	Applicant response
	The Portland Association		
16.2	World Heritage Site - Incorrect mapping of designations and the WHS	The map produced for 'Fig 9.8 Designations' is not only incorrect, but also misleadingThe mapping of the WHS is also incorrect, the area of WHS from near Smallmouth beach all the way along to Nothe Castle and Weymouth Stone Pier has been omitted from the map in two key visually effected areas, namely Sandsfoot Castle and Nothe Fort.	The WHS boundary shown on figure 9.8 uses the data from Historic correct inscribed area. The section of the WHS between Smallmour shown on the map; the designation at this point consists of a very coast so may not be clearly visible on the map showing the full list. The data is also shown on figure 13.1 in chapter 13 of the submitter radius study area, on which the full extent of the WHS can be seen
16.3	World Heritage Site - Omission of viewpoints from other areas of the WHS	Although Sandsfoot Castle and Nothe Fort are at least listed as viewpoints, other key areas from this part of the WHS have been omitted, for example the elements omitted from within the Portland Harbour Shore WHS stretch including Rodwell Trail, Castle Cove and Newtons Cove, all popular areas for both residents and tourists and that all enjoy glorious views of the Isle of Portland. Having ignored the WHS/Dorset Heritage Coastline at the closest viewpoints to the proposed site, PfP uses viewpoints much further afield to represent the visual effects from the West Dorset Heritage Coastline and the Dorset and East Devon Coast UNESCO World Heritage Site (VPs 1, 5, 7, 11, 12, and 14). These have	This comment, and subsequent ones, appear to conflate the two s West Dorset Heritage Coastline and the Dorset and East Devon Co The visual receptors, methodology and viewpoints and photomonta were agreed with Dorset Council and the AONB Partnership. The p locations were also discussed with the Jurassic Coast Trust in Aug The objection queries why the assessment separates the West Dor the Dorset and East Devon Coast UNESCO WHS despite the fact to This is incorrect. They are two separate areas sometime overlappin West Dorset Heritage Coastline as a blue diagonal hatch which ext



eals with impacts on the as based on the conclusions and visual effects, erate adverse effect on the

he plume is given in the table outlines the additional of the plume and the nightwill be no change to the into the WHS assessment in

ic England, which shows the uth beach and Nothe Fort is narrow band along the of relevant designations. ed ES, for the same 10km

separate designations of the bast WHS.

ages/photowire locations photomontage / photowire gust 2020.

rset Heritage Coastline from that they are the same area. ng. Figure 9.8 illustrates the tends out into the sea and
Item	Торіс	Summary of consultation comment	Applicant response
		been rather bizarrely treated as two different study areas, despite the fact that they are the same area, as can be seen by the fact the VPs 7, 11, 12 and 14 are covered in both studies, the only viewpoints not in both, are VPs 1 & 5, yet all of these VPs are part of the same WHS designation. Once again PfP images are taken in a poor light making it impossible to get a true visualisation. As the WHS site study concentrates on only those VPs at the furthest point of the 10km zone, ignoring the closer WHS sites at VP 9 and 10, the WHS is written off as the incinerator "will cause a very minor alteration to the composition of these distant views from the heritage coast, altering a negligible proportion of the field of view", therefore PfP rank the degree of effect as "slight and not significant". Not only is the closest section of WHS omitted, so too is all of the WHS to the west of Portland, which includes the Chesil Beach and The Fleet up to Abbotsbury and beyond. PfP only touch on this area to a very slight degree under their ANOB study, but again there are no VPs in the west.	the Dorset and East Devon Coast UNESCO WHS as a horizontal bl areas is assessed in paragraphs 9.142 and 9.143. The photographs have been taken on a number of different days in conditions. Each photograph has a date and time and as can be set the photo was taken on the 16 March 2020 on a sunny day compa- taken on the 18 March 2020 taken in cloudy conditions. These are weather conditions at Portland. The viewpoints themselves are not assessed as it is the experience whole of these areas that are assessed. The views are only used as Each of these areas is assessed in paragraphs 9.142 and 9.143. The table at paragraph 9.143 describes the geographical extent of " "The visual effects at completion will be localised, with the ERF visit locations along the Jurassic Coastline, including areas between We the 10 km study area. There will be closer views along the Chesil sp Portland and parts of the South West Coast Path. The ERF will not views." The magnitude of change is assessed taking into account a size/scale, geographical extent, duration and reversibility. The magn the experience of receptors visiting the WHS are assessed as neglig the significance of visual effects are slight and not significant. Abbotsbury is approximately 18km from the application site and the study area. The intention of an ES is to determine the significant res mitigation. Given the distance the visual effects from Abbotsbury are significant and therefore it would not be appropriate to include them
16.4	UNESCO – Jurassic Heritage Coast experiential setting	Guidance from UNESCO describes the need to protect an area around the World Heritage Site, generally referred to as its setting. In an applied sense, the setting of the Jurassic Coast provides the functional and experiential context for the Site's attributes and should therefore be sensitively managed as part of the protection of OUV. WHS Experiential setting: The setting should be regarded as the surrounding landscape and seascape, and concerns the quality of the cultural and sensory experience surrounding the exposed coasts and beaches. Building a massive plant 201m long by 51m (max) wide by 47m (max high) which is 6m higher than Portland Bill Lighthouse, together with an 80m stack breaking the skyline that from the N/NW direction will be viewed against a backdrop of the sky together with a plume potentially 280m long, will impact upon the experiential setting of the Portland Harbour Shore as well as the Chesil, Fleet and Portland Coast stretches of the WHS.	The relevant UNESCO guidance (Operational Guidelines for the Imp Heritage Convention, 2019), and material from the Jurassic Coast F 2025; Management Framework for the Dorset and East Devon Coa outlined in chapter 13 of the submitted ES which provides an asses experiential setting of the WHS. That chapter concludes that the proposed development would resu effect on the OUV of the WHS. The Jurassic Coast Trust response f "deals with impacts on the WHS fairly".
16.5	World Heritage Site viewpoints	PfP downplay the value of Sandsfoot Castle, Park and Gardens, and do not mention it is within the Jurassic Heritage Coast. PfP admit the views at VP9 have historical importance as a scheduled monument and Grade II* listed building, ranking the value of the visual receptor as high to medium, but then underestimate the value of the view to visitors, claiming 'receptors' have a moderate interest in the views. PfP's justification for this claim is that the attention of visitors to the castle, park and garden is likely to be on the surrounding landscape, which is of relative importance to the setting of Sandsfoot Castle. PfP underestimate the importance of the view across Portland Harbour to the Isle of Portland, as being an integral and important part of that surrounding landscape. UNESCO states that "the health benefits of spending time in natural environments and near 'blue	The assessment of the receptors visiting Sandsfoot Castle describer visual receptors are high to medium. The LVIA acknowledges that the ERF will break the skyline and will backdrop of the sky, however it will be seen within the context of ta including cranes, ship funnels, lighting columns and radar equipmen new visible element to the port and will alter the horizon; however, it largest ships that berth at the port and does not detract from the he and The Verne, which tower above it.

e hat	ch. Ea	ch of t	hese

n different meteorological een in viewpoint 5 (fig 9.22) ared to viewpoint 8 (fig 9.25) e representative of different

of the receptors to the s representative examples.

views from the WHS as ble from a number of eymouth and east beyond pit between Weymouth and t be central to the focus of a combination of the initude of visual effects on igible adverse and therefore

erefore 8km beyond the sidual effects after re considered to be not m within the ES.

plementation of the World Partnership Plan 2020ast World Heritage Site is ssment of effects on the

ult in a moderate adverse finds that the submitted EIA

es that the sensitivity of the

be viewed against the all structures within the port, ent. The building will form a it is a similar height to the neight of the Isle of Portland



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		spaces' (the sea) are becoming increasingly clear. Encouraging people to explore the beauty and diversity of the Jurassic Coast offers tremendous opportunities to promote active and healthy lifestyles." Building a massive waste incinerator within this surrounding landscape cannot be considered to be conducive to these values. From Sandsfoot Castle, the waste incinerator will break the skyline and will be viewed against a backdrop of the sky so will stand out as an alien silhouette against the skyline and as such also does not comply with the DC Dorset Landscape Character Type overall management objective to maintain the integrity of the skyline. PfP incorrectly claim this mass will only partially alter the composition of the views, and will form a new visible element to the port, that will alter the horizon but will not detract from the height of the lsle of Portland and The Verne. This is a nonsense, as both with or without the plume, it's size will become the focal point, taking the eye away from Portland Castle a Grade I listed heritage site. The view, is part of the reason people visit this area, to take pictures of the views towards Portland, and is photographed time and time again, however with an incinerator in the middle of it all, this will detract from the view and visitors enjoyment of it. PfP suggests the proposed low illumination levels for the incinerator expects that any obtrusive light in the direction of Sandsfoot Castle to the north would be barely noticeable in comparison to that of the existing port infrastructure. however they	Night-time baseline photos and montages have been produced in 9.42 to 9.45. Figure 9.43 (viewpoint 9 Sandsfoot Castle) is a photo effects from within the WHS. The stack will be lit in accordance wit
		have underpredicted the additional impact from red aviation lighting indicators mounted at high level on the stack to meet CAA and MOD requirements.	requirements. Although this will be located at the top of the stack to the Verne on the highest point of the Isle of Portland associated will satellite dish clearly visible from Sandsfoot Castle. The traffic lights that alternate between green, amber and red that are also clearly v Castle. These will be significantly higher than the light at the top of be seen in the context of the existing lighting at the port facilities and minimal light spill. This confirms the conclusions of the night-time a negligible from the WHS within chapter 9 of the ES. Refer to ES Ad information on night-time effects.
16.6	UNESCO – Jurassic Coast	The experiential setting of Chesil, The Fleet & Portland Coast and the Portland Harbour Shore stretches of the WHS Jurassic Heritage Coast will be compromised by the addition of such a large incongruous industrial building in such close proximity these stretches of the WHS. The setting should be regarded as the surrounding landscape and seascape, and concerns the quality of the cultural and sensory experience surrounding the exposed coasts and beaches.	Chapter 13 of the submitted ES provides an assessment of effects of the WHS. That chapter concludes that the proposed developm moderate adverse effect on the OUV of the WHS. The Jurassic Co that the submitted EIA "deals with impacts on the WHS fairly".
16.7	World Heritage Site viewpoints & visualisations	Yet another heritage site to be effected and downplayed by PfP is Nothe Fort, which is not acknowledged as being situated within the Jurassic Heritage Coast. PfP acknowledge Nothe Fort is a scheduled monument and listed building and is located at the entrance to Weymouth Harbour, with views towards across Portland Harbour. The views are panoramic, including views of the proposed waste incinerator site, and PfP acknowledge these views are from a landscape containing a heritage asset, ranking the value of the visual receptor as high to medium.	
		However, PfP underestimate the value of the view to visitors, claiming 'receptors' have a moderate interest in the views. PfP's justification for this claim is that the attention of visitors to the castle, park and garden is likely to be on the surrounding landscape, which is of relative importance to the setting of Nothe Fort. PfP underestimate the importance of the view across Portland Harbour to the Isle of Portland, as being an important part of the surrounding landscape. PfP claim the ERF will create very minor alterations to the composition of the view. The ERF will	The LVIA does not state that 'receptors' have a moderate interest Fort. We assume that the objector is getting confused between the Castle and Nothe Fort. The LVIA acknowledges that there will be p on the southern side towards the site across Portland Harbour. Th sensitivity as high to medium. The proposals will lie approximately will create very minor alterations to the composition of the view, wi the context of Portland Port, with a steep cliff backdrop. The magn



a the ES Addendum figures omontage of the night-time ith CAA and MOD there are lights at the top of vith the prison and the s at the entrance to the Verne visible from Sandsfoot f the stack. The lighting will and has been designed with assessment at completion as addendum for additional

s on the experiential setting nent would result in a oast Trust response finds

in the views from Nothe ne assessment of Sandsfoot panoramic views with views ne LVIA assesses the 4.5km from Nothe Fort and vith the development visible in nitude of visual effects at

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		be visible from a small number of locations within the gardens. The degree of effect will therefore be moderate to slight and significant. PfP have underestimated the impacts on this heritage site, and once again have not provided the requested	completion will be small and therefore the significance of visual effect and significant.
		photomontages with and without plume, offering a better visualization of the impact on a waste incinerator at this site.	There were no requests for photomontages from Nothe Fort. The photoxic locations were agreed with Dorset Council and the AONB Partnersh photowire locations were also discussed with the Jurassic Coast True
		PfP expect that any obtrusive light in the direction of Nothe Fort to the north would be barely noticeable in comparison to that of the existing port infrastructure. The only additional impact would be from aviation lighting indicators mounted at high level on the stack that are needed to meet CAA and MOD requirements, therefore the effects will therefore be negligible and not significant. Once again no photomontage with night lighting has been provided.	Photomontages from Sandsfoot Castle have been undertaken include montages contained in the ES addendum.

ct will be moderate to slight

photomontages/photowire hip. The photomontage / rust in August 2020. uding plume and night-time



#### 17. Compliance with development plan

Other consultees

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	Adams Hendry (on behalf of SPWI)				
17.1	Compliance with DWP Policy 1 (sustainable waste management)	Paragraph 5.6 The Dorset Waste Plan allocates sufficient sites to enable waste to contribute to moving waste up the waste hierarchy and for the Bournemouth, Christchurch, Poole and Dorset area to move towards net self-sufficiency in line with the proximity principle. There is no need for the proposed ERF to enable Dorset to become self-sufficient. As a merchant facility, the proposed ERF will result in Dorset becoming a net importer of waste, with waste being brought to the site from within a three-hour drive time or from further afield by ship and with IBA and APCr being transported to Avonmouth or London. The proposals for the Portland ERF are therefore contrary to Policy 1.	Dorset exports almost all of its residual waste out of county. This is self-sufficient. The allocation of sites in the DWP to provide residua in itself mean that sufficient (or any) capacity will be delivered to me as has been proven over recent plan periods. Consents granted fo treatment facilities in Dorset have not been delivered. Furthermore, residual waste management facilities in previous waste local plans, infrastructure or capacity has been delivered (the only example beir is an intermediate technology). Theoretically a network of smaller sites with different technologies (could meet need, however it is unlikely that such a strategy, dependent technologies or smaller scale traditional thermal treatmer deliverable. As noted above Dorset has a track record of failed protechnologies and the investment market appetite for ACT/ATT for Freduced in the past 2-3 years given the increasing number of technology to permit conventional ERF technology, similar to that ERF, further demonstrating that the broader market does not beliver credible technology for treatment of RDF feedstock. It could be possible that a network of smaller volume ERF plants are could meet the need (i.e. repeats of the Parley proposal, which we allocated in the DWP). However, the ability to finance conventional (<100ktpa) is limited as the returns achieved do not provide adequated the need (i.e. repeats of the Parley proposal, which we analocated in the DWP). However, the ability to finance conventional (<100ktpa) is limited as the returns achieved do not provide adequated the need to be come self-sufficient. The ERF will enable a sign Dorset's residual waste to be managed in Dorset and reduce the a landfill or facilities further away from the waste source, thus being or hierarchy, and proximity principle and self-sufficiency. This fully activates the reach of the county, it is incorrect to state that the enable Dorset's residual waste to be managed in Dorset and reduce the a landfill or facilities further away from the waste source, thus be		
17.2	Compliance with DWP Policy 2 (Integrated waste management facilities)	Paragraph 5.7 The positive benefits of co-location and intensification of waste management activities are acknowledged by Policy 2 and the Waste Planning Authority has sought to maximise such opportunities through the allocation of sites in the DWP. In contrast, the proposed ERF will not intensify an existing waste management activity, and neither will it incorporate different types of waste management activities at the same location resulting in waste outputs (IBA and APCr) having to be transported a significant distance to be processed.	The proposed site provides opportunities to link with existing and fu activities at the port and energy businesses, with the potential to co in the future if a proposal was progressed. Equally, the intensification management sites could lead to the loss of some existing wasterm		
17.3	Compliance with Policy 4 (Applications for waste management facilities not allocated in the Waste Plan) – criterion a	Paragraph 5.8 Applications for waste management facilities not allocated in the Waste Plan are covered by Policy 4. It makes it clear that proposals for waste management facilities will only be permitted where it is demonstrated that they meet all of the	The applicant does not primarily seek to demonstrate that there is a for serving the waste management need that the Portland ERF wou presented in the Planning Supporting Statement, there are significa sufficient treatment capacity will or can come forward on the DWP expected shortfall in residual waste management capacity, given the		



a contrary to Dorset being al waste treatment does not eet the shortfall in capacity or advanced thermal despite allocating sites for little significant treatment ng the Canford MBT which

(as proposed in the DWP) ndent on advanced thermal ent technologies would be oposals for higher risk RDF treatment has further nnical failures which has led nultiple examples in the UK of ow seeking amendments to at proposed at the Portland eve that ACT/ATT is a

cross the allocated sites note is 30% of the volume I ERF at small scale ate return for the risk profile

t's residual waste, other re is no need for an ERF to ificant proportion of amount of waste sent to complaint with the waste cords with Policy 1.

uture complementary o-locate with IBA processing on of existing waste nanagement uses.

no available site allocated uld also serve, although as ant doubts as to whether allocated sites to meet the ne constraints to

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		criteria listed in the policy. These include that there is no available site allocated for serving the waste management need that the proposal is designed to address or the non-allocated site provides advantages over the allocated site. The DWP was adopted less than a year ago at which point all of the allocated sites were available (see paragraph 6.9 of the DWP). No evidence has been put forward by the applicant to demonstrate that the allocated sites are no longer available or that they would not be capable of serving the waste management need that the proposal is designed to address. This does not mean that the allocated sites should be capable of accommodating an ERF of a similar scale to the proposed Portland facility, rather that it must be demonstrated that the allocated sites are not capable of accommodating a facility e.g. advanced thermal treatment, capable of managing non-hazardous residual waste. The potential for residual waste treatment technologies not involving incineration is specifically noted in paragraph 9.30.	development set out in the DWP itself and the findings of the DWP study. This is evidenced by the Eco-Sustainable Solutions proposa around 60,000 tonnes per annum (50,000 tonnes residual waste), expects to deliver 160,000 tpa (so c. 30% of allocated level). The of focus on increasing its RDF production to around 200,000 tpa, profacility for fuel production for an ERF, rather than its own ERF facilit previously consented ACT/ATT project has not been progressed si is currently no evidence to suggest that either the Mannings Heath Binnegar Quarry sites will deliver any significant additional residual waste management needs. The DWP does not exclude incineration rather indicates that there is potential for adverse impact. The DWF and does not preclude any technologies on the allocated sites. On appropriate to consider the relative merits of an ERF at the Portland to demonstrate that clear advantages exist.
17.4	Eco-Sustainable Solutions site	Paragraph 5.9 It is noted that Eco Sustainable Solutions have recently announced proposals for an energy from waste plant at one of the DWP allocated sites at Parley (Inset Map 7) with a throughput of 60,000 tonnes per annum.	<ul> <li>Whilst a planning application has been submitted to BCP Council, stage and there is no commitment in planning terms. There is no convolute be granted or that the facility would be viable and deliverable proposals are subject to objections from Bournemouth Airport, on including aerodrome safeguarding. As recognised in the DWP the so of constraints and development considerations that would need to likely to be significant concerns in respect to the potential for emissive heathlands (protected European sies).</li> <li>If the above planning constraints are mitigated/resolved such that p there is still significant doubt whether the site will actually be built. I discussions with a number of major waste investors, suggest that r facility of this size would be very challenging as the returns achiever return for the risk profile (due to high fixed capital costs).</li> <li>Even in the event that planning is achieved, and finance can be proportion of Dorset's residual waste treatment.</li> </ul>
17.5	Compliance with Policy 4 (Applications for waste management facilities not allocated in the Waste Plan) – criterion b	Paragraphs 2.38 and 5.10 No information has been provided to demonstrate that the proposal would not sterilise or prejudice the delivery of an allocated sites that would otherwise be capable of meeting waste needs contrary to criterion (b) of Policy 4. In the event that the proposal for an ERF is successful in dealing with residual waste in Dorset, it may well prejudice the delivery of the allocated sites as they would be required to import waste from greater distances. It has not been demonstrated that the ERF would not prejudice the delivery of an allocated site and therefore the proposal fails criterion (b).	<ul> <li>The DWP allocated sites have been allocated because they are deer provide capacity to meet Dorset's residual waste management neer requirement that these sites be developed if an acceptable unallocat that has significant advantages over allocated sites and can help m DWP has been written to be flexible to enable sufficient treatment of and recognises that some or none of the capacity attributed to allo forward and be delivered.</li> <li>Nonetheless, the planning application demonstrates that there are residual waste available in Dorset (both municipal and C&amp;I) and else catchment and by sea that far exceeds the capacity of the ERF, su prejudice the development of other similar facilities on allocated site requires proposal for unallocated sites not to sterilise or prejudice the or similar waste management needs'.</li> <li>Assuming that the Eco-Sustainable Solutions proposed ERF at Par constructed, this would provide a modest contribution of 50,000 tp treatment capacity (c. 30% of the 160,000 tpa expected), against a state of the state of the table of table of the table of tabl</li></ul>

allocated sites assessment al for a small scale ERF of on a site which the DWP Canford site is expected to oviding an intermediate ty and we note the ince consent in 2018. There Industrial Estate or the waste treatment capacity.

strate that the Portland site riteria a), and as requested r an ERF to meet Dorset's n at allocated sites but P adopts a flexible approach that basis it is entirely d site against allocated sites

this is only a proposal at this ertainty that permission e, and it is noted that the a number of grounds site is subject to a number be overcome and there are sions on adjacent Dorset

olanning is achieved, then Our understanding, from raising finance to build a ed do not provide adequate

ocured, such a facility would nt capacity shortfall.

emed to have potential to eds. It is not an absolute ated site comes forward neet Dorset's needs. The capacity to come forward ocated sites may came

substantial volumes of ewhere within the uch that it would not es. DWP paragraph 6.12 heir development for 'other

rley is permitted, funded and ca of residual waste a stated DWP need of



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			234,000 tpa, Some 174,000 tpa of capacity would still need to be f residual waste alone. Given the nominal capacity of the Portland EF around 25% of the plant capacity might be expected to come by se amount of residual waste potentially available to the Portland ERF fa would not prejudice other facilities coming forward on allocated site reinforced by the capacity gap analysis detailed in the Waste Need waste catchment.
			Furthermore, the application makes clear that the proposed Portlan sterilise the allocated sites or prevent other waste management use sites. The allocated sites will have an important role to play in terms expanding existing operations for waste recycling and recovery and residual waste to produce RDF.
			The operator of the existing Canford MBT facility, and fuel supply participation of the existing Canford MBT facility, and fuel supply participation of the facility from 125,000 tpa, demonstrating how existing waste management sites, facilities expanded, as part of an appropriate integrated network of waste matter to the proposed Portland ERF, if consented and built. The proposed stimulate investment and delivery of waste uses on DWP allocated and built and the proposed portland
			The assertion that the ERF would prejudice delivery of facilities on a speculative, as is the claim that they would need to secure waste fre proposed ERF accords with Policy 4 criterion b.
17.6	Compliance with Policy 4 (Applications for waste management facilities not allocated in the Waste Plan) – criterion c Compliance with the proximity principle	Paragraph 2.39, 2.40 and 5.11 As a merchant facility, the ERF would take in waste from outside Dorset, indeed, it would appear that the majority of waste processed at the site would be from outside Dorset. The fact that the waste catchment has been set at a 3-hour drive time certainly does not accord with the proximity principle. A facility at Portland would not only draw in waste from outside the county, 75% of the waste managed on the site would arrive by road. A coastal location for a facility that is mainly served by the road network cannot be considered to be the most appropriate in terms of the proximity principle. An inland location would likely have a smaller waste catchment, as acknowledged by Tolvik. The proposal does not therefore meet criterion (c) of Policy 4.	The waste need statement confirms that there are large volumes of Dorset that would fulfil the ERF capacity. However, as a merchant facility if there is spare capacity available the residual waste derived from the wider catchment, as is common with All ERF have a defined potential catchment area by road, beyond we to expect that waste would be managed by other facilities due to his and in line with the proximity principle. The 25/75 ratio between sease a reasonable likely scenario, although the ratio between road and second availability of waste and the amount of waste arriving by less than 75%. Conversely the amount of waste arriving by sea may lit is incorrect to say that most waste would be derived from outside significant predicted shortfall of required capacity in Dorset. Waste authority administrative boundaries depending on the waste market provide sufficient capacity for a significant amount of Dorset's reside Dorset but there will remain some volumes that will continue to near county (as is currently the case for 100%). It is possible that the Carcould result in this facility supplying c. 80% of the ERF's capacity, of The Portland ERF has received letters of intent from Beauparc, as of that indicate RDF produced at Canford would be supplied to the Portwas available. However, if for whatever reason some or all of Dorset on the basis to demonstrate that it is achieving overall net-self-sufficiency in mar arisings.
		A coastal location with access to a port is a significant locational be is well placed to serve Dorset in line with the proximity principle. Do exporting waste out of county is clearly contradictory to the proximi	

#### found for manging Dorset's RF is 183,000 tpa, and ea, it is clear that the far exceeds its capacity and es. This conclusion is I Paper in respect to the ERF

nd ERF would not physically es from occurring on those s of maintaining and d potentially to process

bartner to the applicant, is 100 tpa to around 200,000 is and activities can be nanagement facilities linked ad ERF is more likely to sites, then prejudice it.

allocated sites is therefore rom greater distances. The

residual waste arisings in

his could be used for ith many similar UK facilities.

which it is entirely reasonable higher transportation costs, a and road delivery provides sea will depend on the by road will vary and may be by be more than 25%.

e Dorset given the typically flows across waste et. The Portland ERF will dual waste to be managed in ed to be managed out of anford RDF facility expansion derived from Dorset waste. owner of the Canford facility, 'ortland ERF if that facility the Portland ERF to that Dorset would be able naging its residual waste

enefit and the proposed site prset's current practice of ity principle and also self-



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			sufficiency. The application demonstrates compliance with the pro- strategy in line with Policy 4 criterion c.
17.7	Compliance with Policy 6 (Recovery facilities) Treatment of IBA and APCr)	Paragraph 2.24 to 2.26 and 5.12 The Planning Statement suggests that the facility is compliant with Policy 6 on the basis that IBA and APCr will be transported to appropriate licensed facilities as close as possible to the site. This is not what is required by the policy, rather it specifically requires processing facilities for IBA to be located at or close to the source of the waste arising. Incinerator bottom ash (IBA) will be sent to a company in either London or Avonmouth, while the Air Pollution Control residues (APCr) will be sent to a company in Avonmouth. This will require residues arising from the facility to be transported a considerable distance. The proposal is not compliant with Policy 6 because it requires processing facilities for IBA to be located at or close to the source of the waste arising.	Residual materials will be sent to specialist reprocessing facilities, v enabling residual material to be transported by water sustainably ar traffic movements that would be experienced at any of the allocate principle requires waste to be disposed of, or recovered, in one of t installations by means of the most appropriate methods and techno- residues to the nearest appropriate installation fully accords with th A small number of specialist IBA facilities exist that receive and pro- taking advantage of economies of scale. Whilst some larger scale E processing facilities, others commonly do not and transport materia road. The Portland site provides the opportunity for IBA to be transferred specialist recycling facilities. This is entirely in accordance with the p is to ensure the most sustainable treatment of residues both in term treatment (in this case recycling) and method of transport (in this ca DWP and specifically Policy 6 could not have reasonably anticipate commercial port would come forward for an ERF and its wording d sustainability advantages of moving IBA by sea, reducing the need material by road and its associated environmental effects, which is policy requirement. Further information on the transportation of IBA by ship and potent in the submitted IBA note. The applicant is willing to accept a suitable worded planning condit transportation of IBA to specialist reprocessing facilities by sea. No applicant is committed to a planning obligation to review future opt IBA/APCr reprocessing facilities at or in close proximity to the site (i the objection ignores the clear future potential at Portland for estab residues.
17.8	Compliance with Policy 12 (Traffic and access) Baseline reporting	Paragraph 5.13 Policy 12 relates to transport and access. Given the suspected anomalies regarding the reporting of baseline flows, it is not possible to understand the impact of the proposed development on the road network.	Refer to response provided to Table 15, Items 15.3 to 15.8 (paragr
17.9	Compliance with Policy 14 (Landscape and design quality) Durability and effectiveness of PVC mesh, and form, scale and mass of the plant	Paragraph 5.14 Landscape and design quality are covered by Policy 14. It states that proposals for waste management will be permitted where they are compatible with their settings and would conserve and/or enhance the character and quality of the landscape. This should be achieved through, among other things, appropriate use of scale, form, mass and materials. The use of PVC mesh to screen the building needs further evidence to show that it will be durable and effective in the long term. As discussed in the previous section on landscape and visual effects, the scale, form and mass of the proposed plant are entirely inappropriate for this prominent and sensitive location. This is contrary to Policy 14 of the DWP.	As stated in the Planning Supporting Statement (Table 6.1), the ER sensitively designed, with guidance from Dorset Council landscape impact on the local setting and character and wider views from des such as the AONB and the WHS. The design reflects the local geol immediate cliff setting, with this also translated into the use of approprior a high quality building that provides a landscape feature, but into its surroundings to limit visual impact. The ES (Landscape and recognises that whilst the development would result in some impact be acceptable and to statutory consultees. Further information in respect to durability and environmental performed respect to external cladding material in the DAS addendum. Further

#### ximity principle and spatial

with the port location nd therefore avoiding the ed sites. The proximity the nearest appropriate ologies. The ERF in sending ne proximity principle..

cess the residual material ERFs have on site IBA al to a specialist facility by

I sustainably by water to principle of the policy, which ms of the method of ase transport by sea). The ed that a site located within a does not recognise the for transportation of the clear driver behind this

tial destinations is provided

tion, requiring the otwithstanding this, the tions to establish a (see above). Furthermore, olishing local facilities to treat

raphs 4.59-4.64)

RF has been carefully and e officers, to minimise visual signated landscape areas ology of Portland and its ropriate cladding materials to out also successfully blends I Visual Impact Assessment) ct, overall this is deemed to

rmance is provided in er discussion will be held



Item	Торіс	Summary of consultation comment	Applicant response
			with officers to consider the most appropriate materials, including u information on durability and maintenance, and this can be controll
			The proposals are considered to accord with Policy 14.
17.10	Compliance with Policy 19 (Historic environment)	Paragraph 5.15 and 5.16 Policy 19 relates to the historic environment. It requires applicants for proposals for waste management facilities to demonstrate that heritage assets and their settings will be conserved and/or enhanced in a matter appropriate to their significance. Table 7.3 of the ES shows that the proposed ERF will have an adverse effect on a number of designated heritage assets including the breakwater and former dock offices and the East Weare batteries as well as the Grade II* Verne Citadel and Portland Castle. This is contrary to Policy 19 of the DWP.	As stated in the Planning Supporting Statement (Table 6.1), the ER to the setting of heritage assets, with this being within the slight to significant adverse effects. Overall, the proposed ERF would not lea adverse effects on heritage assets. Where harm does exist to the setting of heritage assets this is cons substantial harm in context of the NPPF. Further discussion with D officer has identified potential for mitigation that will deliver significa related benefits that will off-set any harm caused to heritage assets development. A framework heritage mitigation strategy has been submitted to Do measures are now included in the ES Addendum as appropriate m comprise a programme of works that will enable the East Weare E monument and listed building grade II to be removed from the Hist register' and provision of a permissive public right of way, reconnect to facilitate public views and interpretation of the heritage features p Weare, and facilitating an around Portland walking route.
	Freeths (on behalf of The P	ortiand Association)	
17.11	Compliance with Policy 4 (Applications for waste management facilities not allocated in the Waste Plan) – criterion b	<ul> <li>Page 5</li> <li>The key component of this test is whether the proposed development would prejudice the delivery of allocated sites that are otherwise capable of meeting waste needs. The Applicant provides no evidence for meeting this part of the criterion. After concluding that the scheme would not sterilise an allocated site they simply remark "Neither would the proposed ERF prejudice the existing activities taking place at any of the four sites identified as being suitable for the management of non-hazardous wastes or preclude the development of future management activities."</li> <li>It is important to remember that the Waste Plan is recently adopted and is less than a year old. The sites allocated in the Waste Plan have been done so to meet an identified need. The shortfall identified is 232,000 tpa. Total potential capacity within the four Allocated Sites amounts to 385,000 tpa, exceeding the identified needs of the Plan area.</li> <li>If you compare the potential residual waste capacity for each of the four sites allocated for the management of non-hazardous waste to the proposed development, it is clear that there is significant potential for the proposed development to prejudice the delivery of one or more allocated sites.</li> <li>7 - Eco Sustainable Solutions, Chapel Lane, Parley: 160,000 tpa</li> <li>8 - Land at Canford Magna, Magna Road, Poole: 25,000 tpa</li> <li>9 - Land at Mannings Heath Industrial Estate, Poole: 100,000 tpa</li> <li>10 - Binnegar Environmental Park, East Stoke: 100,000 tpa</li> </ul>	The DWP allocated sites have been allocated because they are dee provide capacity to meet Dorset's residual waste management nee- requirement that these sites be developed if an acceptable unalloca- that has significant advantages over allocated sites and can help m DWP has been written to be flexible to enable sufficient treatment of and recognises that some or none of the capacity attributed to allo forward and be delivered. Nonetheless, the planning application demonstrates that there are residual waste available in Dorset (both municipal and C&I) and else catchment and by sea that far exceeds the capacity of the ERF, su prejudice the development of other similar facilities on allocated site requires proposal for unallocated sites not to sterilise or prejudice t or similar waste management needs'. Assuming that the Eco-Sustainable Solutions proposed ERF at Par able to raise finance to allow construction, this would provide a mo tpa of residual waste treatment capacity (c. 30% of the 160,000 tp stated DWP need of 234,000 tpa, Some 174,000 tpa of capacity v for manging Dorset's residual waste alone. Given the nominal capa 183,000 tpa, and around 25% of the plant capacity might be expecilear that the amount of residual waste potentially available to the F capacity and would not prejudice other facilities coming forward or Furthermore, the application makes clear that the proposed Portlar sterilise the allocated sites or prevent other waste management us- sites. The allocated sites will have an important role to play in terms

use of samples and further led by means of condition.

RF will result in some change moderate range of ad to any substantial

sidered to be less than orset Council's heritage int public and heritage s as a result of the proposed

brset Council, and these nitigation. These measures Battery scheduled coric England 'at risk cting existing rights of way, present along the East

isions of Policy 19.

emed to have potential to eds. It is not an absolute ated site comes forward neet Dorset's needs. The capacity to come forward ocated sites may came

substantial volumes of ewhere within the uch that it would not es. DWP paragraph 6.12 heir development for 'other

rley is permitted and was odest contribution of 50,000 oa expected), against a would still need to be found acity of the Portland ERF is cted to come by sea, it is Portland ERF far exceeds its n allocated sites.

nd ERF would not physically es from occurring on those s of maintaining and



Item	Торіс	Summary of consultation comment	Applicant response
		<ul> <li>Proposed Development at Portland: 202,000 tpa</li> <li>The proposed development has the capacity to meet 86% of the total identified shortfall and amounts to 52% of the capacity that could be derived from allocated sites. It is far larger than 3 of the 4 allocated sites and if permitted will clearly have a prejudicial impact on some or all of the allocated sites coming forward, as a significant proportion of need will be met by the proposed development.</li> <li>The proposed development is contrary to criterion B.</li> </ul>	expanding existing operations for waste recycling and recovery and residual waste to produce RDF that could be processed at Portland Indeed, it is understood that Beauparc, the owner of the existing Caplanning to increase the throughput of the facility from 125,000 tpa demonstrating how existing waste management sites, facilities and as part of an appropriate integrated network of waste management Beauparc letter of intent which makes it clear Beauparc expect to s RDF to the Portland ERF that will be local source waste. The proposed the assertion that the ERF would prejudice delivery of facilities on a speculative, as is the claim that they would need to secure waste frequencies.
17.12	Compliance with Policy 4 (Applications for waste management facilities not allocated in the Waste Plan) – criterion c Compliance with the proximity principle -	<ul> <li>Page 6</li> <li>It is evident that the site's location does not support the spatial strategy of the Waste Plan. Its location is far removed from the area where strategic provision should be concentrated and the scale of the proposed development fundamentally undermines the strategy. The proposed development is of a size that should have been considered as part of the development plan process.</li> <li>To approve a development with a capacity of managing residual waste accounting for approximately 86% the size of the need for the Waste Plan area up to 2033, in a location at odds with the spatial strategy within a year of adoption of the Waste Plan, would unarguably undermine both the spatial strategy itself and any public confidence in the Plan led system.</li> </ul>	Chapter 6 of the Planning Supporting Statement (paragraphs 6.35 proximity principle generally and at the Dorset, regional and nationa to 6.72 then consider the proposal in context of the DWP spatial st how the proposed Portland ERF will help Dorset to ensure that its r within Dorset, as opposed to the current practice of exporting wast other ER in the UK or Europe. The DWP Inspector recognised that the purpose of allocating sites treatment of an increased tonnage of waste to enable recovery with transporting waste to landfill or recovery facilities outside Dorset, as Whilst the Inspector noted that the plan has identified strategic requimanagement and recycling and allocates sites to meet those requir related to the sources of waste, it is explicitly made clear in the DW allocated sites might not come forward and deliver the necessary or recognises that additional capacity may be appropriate elsewhere t gap is adequately addressed, and Policy 4 specifically permits wast come forward on unallocated sites offer advantages such as the energy sources. This comment seeks to apply the proximity principle in a rigid and in recognise that most of Dorset's residual waste is exported out of cr facilities elsewhere in the UK or abroad. This clearly contrary to the self-sufficiency). This is specifically what the DWP inspector sought DWP identified sites near to the main south east Dorset conurbation significant proportion of residual waste arises, it also accepts that the address this the DWP provides further flexibility in recognising that bring significant advantages. The DWP takes a positive and flexible sufficient waste capacity is provided in Dorset to meet its needs owi is recognised that the Portland ERF site is not as close to the south as the allocated sites, for the planning and investment a RDF material produced at facilities located on allocated sites (such

d potentially to process d.

Canford MBT facility, is a to around 200,000 tpa, d activities can be expanded, it facilities - we refer to the supply a large volume of osed ERF is more likely to sites, then prejudice it.

allocated sites is therefore rom greater distances. The

to 6.59) addresses the al context. Paragraphs 6.60 trategy. These demonstrate residual waste is managed te out of county to landfill or

was to "facilitate the hin the County instead of s happens at present". uirements for residual waste rements, which are well /P that some or all of those capacity. The DWP also to ensure that the capacity ste management facilities to significant advantages over ragraph 56) fully recognises wated sites are not he provision of heat and

inflexible way that fails to county to landfill or ERF e proximity principle (and t to address. Whilst the on, as this is where a chese sites are constrained e required capacity. To other unallocated sites may e approach to ensuring that ver the plan period. Whilst it h east Dorset conurbation opment is contrary to the sult in significant advantages a final treatment facility for a s Canford).

challenges noted elsewhere, cant volume of Dorset nue to be exported much



Item	Торіс	Summary of consultation comment	Applicant response
			further to out of county facilities, therefore displacing waste from the to be processed in other out of county areas and, ultimately, resultin volumes in the UK context. Residual waste arising from the main co to further pre-treatment to remove recyclable materials close to its p reducing its weight and volume prior to transporting the final RDF to revised Carbon Assessment, the benefits of providing shore power outweigh any modest carbon emissions associated with transportin proposal does not fundamentally undermine the spatial strategy as
			This comment also questions the scale of the proposed ERF in resp 2033. The ability of the proposed ERF to meet much of Dorset' nee a positive in providing certainty that Dorset's residual waste can in f Dorset subject to commercial contracts. This comment also fails to facility has been sized to meet Dorset's residual waste needs (and is do so) it is also a merchant plant with capability to accept waste fro and by sea from other locations.
			In respect to the proposed ERF's scale in context of the development adoption date, it is entirely reasonable for unallocated sites to come through the planning application process, where they were not iden available at the time that the development plan was being prepared DWP process could only take account of the available evidence at the being prepared.
		It is noted that the PS in assessing compliance with criterion 'c states "Planning Inspectors have placed importance on the ability of EfW proposals to contribute to the underlying objectives of national and local waste policy and plans as a part of a balance. Less importance is placed on whether proposals accords precisely with a prescribed or envisaged spatial strategy."	Paragraph 6.67 to 6.69 of the Planning Supporting Statement refer Resource Recovery Centre appeal decision from 2011 and includes reference (Appeal Reference APP/Z0116/A10/2132294). As per par example where the Inspector considered compliance with a spatial sustainability considerations.
		Firstly, we would suggest that this statement is contradictory as an underlying objective of local waste policy would be compliance with a spatial strategy. A spatial strategy is the bedrock on which a development plan is based and the development plan is the first consideration of any development proposal.	The reference to this example is intended to demonstrate that comp strategy, which as paragraph 6.69 states must be balanced with the inform and direct the overall spatial strategy for waste management that <u>waste miles are not an overriding factor</u> when balanced against landfill and low carbon energy.
		Secondly, it is clear from this statement that the Applicant recognises that the proposed development does not accord with the Waste Plan's spatial strategy. Finally, the suggestion of Planning Inspector's placing weight on certain factors is a completely generic statement with no reference to appeal decisions demonstrating any evidence to support this contention. Paragraph of 3.16 of the Waste Local Plan states <i>"The principle of proximity"</i>	This comment seems to be suggesting that decision makers, include to give priority to consideration of spatial strategy over other consid- appeal decision that is not correct. Furthermore, in referring to this e- recognising that the proposed development does not accord with the is being suggested by this comment) but highlighting that in this case be an overriding factor when balanced against other benefits. It sim- because a site (such as an allocated DWP site) is closer to the main the proposed by the suggested by the sugges
		means that wastes should be recovered or disposed of <u>as close as possible to</u> <u>where it is produced</u> (our emphasis) and has been another important driver for the Waste Plan".	miles should not be an overriding factor.
		It is apparent from the geography of the site and its relationship with the wider district that the scheme fails the principle of proximity. This is perhaps best illustrated by the application of a 3 hour HGV drive time catchment area, in which the Applicant base their Need Assessment (Figure 6.1). This includes a number of large urban areas, including the Bournemouth. Christchurch and Poole	Ine application identifies a 3 hour HGV drive time catchment area for ERF could reasonably attract residual waste, on the basis that the far of the nearest appropriate installations (as per the proximity principle waste from within all of this area and the urban areas, would come rather it could if the market dictates that to be economically viable to
		conurbation, Weymouth and Portland, Exeter, Taunton, Yeovil, Salisbury, Southampton, Winchester, Eastleigh and Havant. The Need Assessment comments <i>"There is a pressing need for Dorset to reduce its reliance on the export</i>	Given the confirmations provided by Beauparc, the owner at Canford producer of RDF in Dorset, that it plans to increase its capacity and supply a large volume to the Portland ERF, it is possible that c. 80% supply could be provided from Dorset waste (ignoring any potential

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nose areas that would need ing in additional landfill onurbation can be subject point of arising, further to Portland. As set out in the r and/or heat at Portland ng RDF to Portland. The is being suggested.

pect to the DWP need to ed should be considered as future be managed in precognise that whilst the is well located in Dorset to om within its catchment area

ent plan process and e forward for consideration ntified or deemed to be d and was adopted. The the time that the plan was

r to the Avonmouth is a footnote appeal aragraph 6.67, this is an I strategy with a wider set of

npliance with a spatial ne strategic objectives that it. In that the Inspector held st other benefits of reduced

ding Inspectors are bound derations. Clearly, given this example the applicant is not the DWP spatial strategy (as use waste miles should not nply recognises that just n area of waste arisings patial strategy as waste

from which the proposed facility could represent one le). That is not to say that to the Portland ERF but to do so.

ord and the only significant d that it would expect to % of the Portland ERF RDF I for increase in RDF



Item	Торіс	Summary of consultation comment	Applicant response
		of residual waste, become more self-sufficient and treat more of its residual waste in Dorset closer to where it arises, in accordance with the proximity principle".	production elsewhere in Dorset in the future). As such it is reasona parties act economically rationally, then a significant proportion of the should be Dorset source waste.
		<ul><li>However, the need argument is based on a much wider catchment and further the site's coastal location and distance from the main urban areas of the district mean that it is ill placed to deal with the waste derived from Dorset.</li><li>The application seeks to give weight to addressing issues of waste management</li></ul>	It is incorrect to state that the need case is predicated in securing w HGV drive time catchment, given that the Waste Need Statement c there are large volumes of residual waste arising in Dorset alone to irrespective of the potential for residual waste to be secured from its
		wider than the Dorset authority area. It sets out that the split of waste management is "likely to be around 75% by road and 25% (around 50,000 tonnes) by sea. This would equate to around 20 ships a year and these ships would most likely be travelling from Northern Ireland, Republic of Ireland and other UK ports".	catchment area and from further afield by sea. The Waste Need Pa analysis of the residual waste arisings and capacity in the catchmer The application is very clear that whilst the proposed Portland ERF
		In short the application presents a clear contradiction. On the one hand it professes to adhere to the proximity principle by resolving outsourcing of Dorset's waste, despite it being poorly located to the principal urban areas of the District, but it is also reliant on a catchment area for need that covers 50% of the area of	has been sized to meet Dorset's residual waste need in Dorset (as to export waste to other counties) in line with the proximity principle plant is also has the capability to secure residual waste from its cate by sea.
		Devon, Somerset, Wiltshire and Hampshire. It is clear that the above strategy does not adhere to the proximity principle and the application seeks to address deficiencies in compliance with the Waste Plan by purporting to contributing to addressing wider issues of waste management on a more regional or national scale.	There is no contradiction here in respect to need (as this comment proposed ERF can meet Dorset's need, and contribute towards me need. This comment fundamentally fails to understand the nature of must be free to secure its waste from within the waste market, reco location within Dorset it is extremely well placed to secure waste fro future contracts). However, this does not prevent the Portland ERF its defined catchment area or from further afield where this waste m or be exported to Europe, contrary to the waste hierarchy, self-suffi principle.
17.13	Compliance with Policy 4 (Applications for waste management facilities not allocated in the Waste Plan) - conclusion	Policy 4 requires compliance with each criteria. It is evident that the scheme fails against each of criteria a-c of the policy. The proposed development would substantially harm the spatial strategy of the development plan and would prejudice the ability of other recently allocated sites to come forward to meet a waste need. The comparison exercise between allocated sites and the proposed development has not been undertaken in a fair and rational manner and there are significant flaws in the methodology and hence the conclusions of that exercise	As set out in the responses above the proposed Portland ERF is co (criteria a to c), in so far as it would be complementary to the spatia requirements of the proximity principle and would certainly not be h prejudice the ability of the allocated sites to come forward to provid treatment capacity. The comparative assessment for the reasons g using a robust methodology that has been tested at inquiry and fou suggestion in this comment that the methodology, outcome and co strongly refuted.

### able to assume that if local the Portland RDF supply

waste from the wider 3 hour clearly demonstrates that serve the proposed ERF, ts defined terrestrial aper provides a detailed int area to demonstrate this.

is located in Dorset and opposed to current practice e. However, as a merchant tchment and from elsewhere

suggests), in so far as the leeting regional and national of a merchant plant, which ognising that because of its om Dorset (depending on F from managing waste from night otherwise go to landfill ficiency and the proximity

ompliant with Policy 4 al strategy, in line with the harmful. Neither would it de waste management given has been undertaken und to be sound and the onclusions are flawed is



Appendix A: Response to UKWIN Planning Application submission

#### Appendix B: Summary response to public comments

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Item	Торіс	Summary of consultation comment	Applicant response
1.	Air Quality		
		<ul> <li>There will be a continuous stream of poisonous residue, hazardous to local residents whichever way the wind blows</li> <li>The increase in gaseous air pollutants, produced as a direct result of road traffic, contribute to the formation of other air pollutants such as ozone, acid rain and particulate matter</li> <li>The proposed site is unsuitable given the close proximity of houses and the prison area, which appears to be above the proposed chimney height. During certain meterological conditions pollution will blow over residences rather than be dispersed, with higher concentrations of pollutants increasing the incidence and severity of respiratory linesses.</li> <li>There are numerous risks to public health associated with these plants, from various pollutants and particulate some of which are extremely hazardous, and highly toxic/ carcinogenic a very low concentration levels. The siting of such a facility objects to a local population including schools, a hospital, elderly residents, people with breathing difficulties and allergies is considered to be a high risk as is the potential exposure of young children and babies to extremely toxic substances.</li> <li>There are serious concerns over the validity of the air quality monitoring submitted with the application and whether this properly accounts for the geography of Portland.</li> <li>There is no evidence of any comprehensive wind studes of the impact on emissions plume that is directly influenced by an adjacent 'oiff' face, which also rises above the top height of the chimmey had no evidence of any comprehensive wind studes of the impact on emissions plume that is directly influenced by an adjacent lot of the chimmey has been modelled to ascertain the best plume outcomes. The air quality assessment is therefore not robust.</li> <li>The direction of the wind has been modelled incorrectly and the modelling is flawed by the meteorological conditions encountered at Portland, such as low lying cloud, sea mists, fog etc. will revert the effective disper</li></ul>	<ul> <li>The effects of emissions from the proposed ERF have the submitted ES (refer to chapter 4 of the ES) and H Assessment (HHRA) and Health Impact Assessment (submitted.</li> <li>The flue gases will undergo a series of treatments that safe level before they are released to the environment range of pollutants that will be emitted from the ERF significant effects on air quality because of emissions development.</li> <li>The submitted ES addendum, with updated air quality provides further information in these respects, demorprovision will result in a reduction in pollutants arising</li> <li>The air quality modelling has been undertaken using a 5.2). ADMS is routinely used for modelling of emission Environmental Permitting purposes to the satisfaction and local authorities. The air quality model applies me and takes account of the topography and meteorolog proposed development site. The model does not indit to emission levels to air or impact on public health in the Portland prisons.</li> <li>Whilst the health concerns raised are noted, the emiss stringent controls under the Environmental Permit witt England (PHE) in respect to safeguarding public healt within permitted levels. It is not for the planning regim depart from this position.</li> <li>PHE's position (October 2019) is that modern, well ru waste incinerators are not a significant risk to public ho to these types of facilities make only a very small contrib of air pollutants.</li> <li>The proposed ERF is designed to meet the new BRE be one of the most modern and up to date facilities o need to comply with the BAT requirement.</li> <li>The ERF has been designed to manage RDF as its fe will need to be provided to an agreed composition an of this will not be used.</li> </ul>



e been fully assessed through luman Health Risk (HIA) have also been

at will clean the gases to a t. Modelling undertaken for a showed that there will be no from the proposed

y information and HHRA/HIA nstrating that the shore power from ship engines.

an advanced model (ADMS ns for planning and n of the Environment Agency eteorological data for Portland gical conditions at the icate any concerns in respect respect to residential areas or

ssions will also be subject to th input from Public Health th, to ensure these are well ne to seek to replicate or

un and regulated municipal nealth. While it is not possible tors completely, any potential all. This view is based on on health and on the fact that pution to local concentrations

F Guidance and as such will of its kind in the UK. It will also

edstock and therefore all RDF nd specification. Fuels outside

Item	Topic	Summary of consultation comment	Applicant response
2.	Carbon Dioxide and Gre	enhouse Gases	
		<ul> <li>Off-setting the vast amount of CO<sub>2</sub> this development would produce is not cradible, could not be enforced and is not a solution to this environmentally destructive proposal</li> <li>The release of more than 550 tonnes per annum of CO<sub>2</sub> will be released each day onto the land and seas</li> <li>Off-setting is unrealistic and immoral. Tree planting may not be successful and off-setting via purchase of carbon credits likely to occur remotely from where the impact is caused impacting on those who are not responsible for causing climate change</li> <li>The generation of huge amounts of CO<sub>2</sub> is a threat to national recycling goals and will require the importation of waste from other countries</li> <li>Tree planting is impractical, and trees do not grow on Portland</li> <li>Incienation can never be considered 'low carbon' as the process of burning waste results in high levels of greenhouse gas emissions with a higher carbon intensity than the conventional use of fossil fuels.</li> <li>There is no commitment to carbon cablure and storage</li> <li>The project should aim to be 'zero-carbon dioxide equivalent' rather than net-zero</li> </ul>	Paragraphs 6.302 to 6.313 of the Planning Supportir applicant's approach to achieving net-zero carbon. V give rise to CO <sub>2</sub> emissions, the comments made in re that the recovery of energy from waste can significan in comparison to the alternative of landfill. Furthermor power and the ability to supply a district heating netw reductions in carbon. The applicant has committed to ensuring that the ER its lifetime. Whilst the facility is expected to operate a sets more carbon that it emits) at the point it is detern net carbon negative, the applicant would commit to p off-set its carbon emissions. This can be achieved in submitted Achieving Carbon Neutrality Report. There credit generating projects across various sectors and option there are many others. Carbon-offsetting through the use of carbon credits i method for helping to reduce carbon emissions. It is has been suggested. The applicant is willing to back up its net zero commi agreement to ensure that the proposed ERF actually neutrality. The applicant has previously stated in the Planning S prepared to consider the incorporation of appropriate (CC&S) technologies to the ERF should these prove t economically viable. Further consideration has been further information is provided in the carbo capture p Regulation 25 submission to Dorset Council. This con CC&S technologies to a sufficient stage a viable, the proposed site at Portland is ideally located because of its location advantage at a port for the sto captured carbon and the availability of industrial port based infrastructure. Other alternative locations in Do benefits. The introduction of CC&S when viable, which is supp principle, would allow the Portland ERF to move towar ather than net-zero carbon. In respect to low carbon, government policy is to mo recovery from residual waste is regarded as part of th are to be deployed to reach that aim. It should be rec planning policy purposes, a 'low carbon' energy sourc carbon' energy source and therefore are encouraged the move to address the climate change eme



ng Statement set out the Vhilst the proposed ERF will espect to CO<sub>2</sub> ignore the fact tly reduce net GHG emissions re, the provision of shore work will lead to further net

F will be net zero carbon over s net carbon positive (it offmined that it is operates as burchasing carbon credits to various ways as set out in the e are many different carbon d whilst tree planting is one

s a credible and recognised not impractical or immoral as

tment by entering into a legal does achieve carbon

upporting Statement that it is e carbon capture and storage to be technically and given to carbon capture and aper submitted as part of the nfirms that as and when and becomes commercially to accommodate CC&S, orage and transport of land to accommodate land orset do not enjoy these

oorted by the applicant in ards zero-carbon equivalent

ve to zero landfill, and energy ne range of measures which cognised that ERFs are for rce, even if they are not a 'no I by existing policy as part of

residual waste forms part of ompared to the burning of therwise be going to landfill. ste will be fossil fuel derived, it ciated carbon already exists

		as a waste and therefore must be managed. By mathing this existing carbon can be beneficially used to reproduce to reproduce the conventional fossil fuels.
3.	Natural Heritage	
	<ul> <li>Heavy metals build up inside living organisms ov and psychological effects. Not only will this effect wildlife their environment and diverse sites of ecc.</li> <li>Emissions to air from the plant will impact upon a animals and plants live</li> <li>This area is extremely rich in rare lichens and bry are sensitive to nitrogen. The proposals will have a precautionary approach should be adopted giv biodiversity</li> <li>Portland is home to several protected species. T moths and the protected Silver studded blue bu and the extra traffic will adversely affect grasslan species.</li> <li>The Fleet is a nature reserve, with migrating bird could have an adverse impact on this habitat</li> <li>The assessment of air quality impacts of the pro major flaws and deficiencies. As a consequence and nationally designated wildlife sites cannot be</li> <li>The ES has ignored the value of open mosaic ha site.</li> <li>Portland Sea Lavender, Limonium recurvum, has and exists nowhere else. This will be severely im and particulates).</li> <li>The chinney stack will vent directly onto rare an.</li> <li>The nigration of birds is something that could be development</li> <li>The plant is close to several SSSI, areas of SAC</li> <li>There has been no bat survey</li> <li>The proposal could impact upon the Chesil and species</li> </ul>	<ul> <li>a lifetime creating both physiological numan life but also plants marine life origical importance</li> <li>eas of conservation where wildlife, agics is the proposed and the species, the proposed facility seed ERF has been shown to contain the predicted impacts on internationally elied upon.</li> <li>tat within the proposed development avolved to grow in the cliffs of Portland acted upon by emissions (both gases precious limestone and grasslands seriously affected by this proposed and Marine Conservation Zones</li> <li>test SAC and protected eel grass</li> <li>Potential impact on ecology, including protected in assessed through the ES (chapter 10). This has condevelopment would not give rise to any significant timpact on operation. The air quality modelling undertaken to consider the potential impacts on the space of the species of the speci</li></ul>
4.	Economy, jobs and the housing market	
	<ul> <li>The plant will have a direct detrimental economic tourist destinations and impact on small busines</li> <li>Jobs suggested are vague and highly speculative brought in by buses and vans and there is no guilocal people</li> <li>Local people will not be employed to build it</li> <li>There will be a fall in local property prices and how</li> <li>Will the local taxpayers have to bear the decomr</li> <li>The vast majority of spend will be directed to main proposed ERF to existing and new businesses in expenditure will be slight and will be negligible national proposed on the cost of waster mot all go to landfill over the next 25 years</li> <li>The old naval accommodation block will never bear the observation.</li> </ul>	<ul> <li>There is no evidence that the proposed ERF will had on Weymouth and Portland as destinations. There is no evidence that the proposed ERF will had on Weymouth and Portland as destinations. There is care on the proposed is to be crated in tourist locations, including the Spittelau to Bakke facility in Denmark, which through their desi attractions in their own right. The Portland facility here cessive in its setting, and whilst it is clearly not a right, it will as a consequence of its unique architect some interest.</li> <li>The proposed jobs to be crated during construction be conservative and accurate, based on technical Economic Impact Assessment.</li> <li>The ERF is a private waste management facility and taxpayer liability for decommissioning at the appropriate the appropriate the proposed is the appropriate the proposed is the proposed is the appropriate the proposed is the proposed i</li></ul>

naging this waste through ERF, ace energy derived from more



bitats and species has been cluded that the proposed dverse effects on designated takes account of the detailed ential levels of emissions to air indertaken by specialist elling by the Environment onsidering potential impact on

the Habitats Regulations has posed development would not levant European designated

nse the applicant has updated nt, both of which have been Dorset Council. This has not oposed development would rotected species and habitats,

ne Dorset Natural Environment cological mitigation designed ne open mosaic habitat), a 10% biodiversity net gain

n the marine environment from nted in the marine paper This concludes that there om either emissions to air or

e an adverse economic effect are examples of ERFs being cility in Austria and Amager ns have become local tourism s been carefully designed to be purist destination in its own ural design be a feature of

and operation are deemed to ssessment provided in the

there would be no local riate time that this is required.

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			<ul> <li>The air and water borne pollution would affect the health and wellbeing of residents, with the most affected in the top 10% and 20% Index of Multiple Deprivation areas.</li> </ul>	The applicant has set out in the Planning Supporting employ local people where possible for construction and also its commitment to encouraging construction apprenticeship scheme. The applicant's ambition is apprenticeship scheme, working with local colleges Weymouth College and Manor Marine. A commitme legal agreement to support training, apprenticeships construction and operational phases, and its policy is The project will create over £100m of investment in t of the Portland ERF, resulting in significant economic business, direct, indirect and induced job creation, the opportunities, support for local tourism (through the the port) to support the retention and growth of the 6 provision of greater efficiency in the local energy network economic growth. All of these would benefit local co- living standards and address existing pockets of dep state that most of the economic benefit would go to the Weymouth and Portland area. The costs for continued landfill of Dorset waste simp to landfill residual waste in the way that Dorset has be misleading. Without addition residual waste treatment there will be no alternative but to continue to send w sustainable waste management option. The propose alternative option to landfill and could help to reduce costs. Potential effect on property values is not a planning if expected that the ERF would result in any significant based on experience from other UK locations where The revised HHRA and HIA documents, appended to impact on public health and well-being in areas affect together with other supporting documents, concluded
	5	Environment/Climate Chanc		
	5.			
			<ul> <li>Would contribute to global warming predicted to bring a 2.5 metre sea level rise even if the Paris climate goals are met</li> <li>Breaches the UK's legal commitment under the Paris Climate accord to cut net emissions of greenhouse gases by 100% - relative to 1990 levels - within the next 30 years - and Dorset's low carbon policies</li> <li>Particularly regrettable at a time when a separate proposal is being developed for a Dorset National Park, with all the funding and benefits to the local economy this could be expected to bring.</li> </ul>	As set out in the Planning Supporting Statement and Assessment, the proposed ERF is deemed a low ca supported by government as part of a range of mea national carbon emissions to meet national and inter commitments. The revised Carbon Assessment sets out how the p set carbon emissions, in the context of other scenar across the lifetime of the facility, as a result of its CH shore power for shipping and heat to a local district two Portland prisons. The proposed ERF would not impact upon a Dorset might be designated.
		1		

g Statement its intention to n and operation of the facility on contractors to operate an to develop a longer term and companies such as ent is offered through a s106 s and education, through is set out in Appendix H.

the construction and operation ic benefits in terms of local training and education provision of shore power at cruise liner sector and tworks, to support future ommunities and help to raise privation. It is not correct to pareas outside of Dorset and

bly provide a cost for continuing been doing, and is not int capacity being provided, vaste to landfill, the least ed ERF would provide an e future waste management

issue. Nonetheless, it is not t change in property values, e ERFs have been developed.

to the ES Addendum consider acted by deprivation. They, le that the project would not

d Carbon and Greenhouse gas arbon source of energy and is asures intended to reduce ernational carbon reduction

roposed Portland ERF will offios for waste management and IP ability to provide energy to heating network serving the

National Park if and when that



6.	Explosions and fire		
	<ul> <li>If the contract of th</li></ul>	here was a serious incident the impact on Portland and the surrounding area could be nsiderable e applicants mention sprinklers, the submission is vague what type and where these I be installed. Is it site wide or only in specific areas. Is there a Fire Water retention pond where will any fire water be stored pending discharge recent fire at Chickerell depot illustrates the potential fire risk and potential for pollution e local fire service does not have the capability to deal with a fire at the plant e proposed plant is adjacent to fuel supply pipelines and therefore represents a unificant fire risk	A preliminary Fire Prevention Plan (FPP) for the proport to the Environment Agency as part of the Environme provides information in respect to fire prevention mea and storage of waste. A copy of the FPP has been s consideration, under the Regulation 25 request, as p Fire prevention will be strictly managed under the Em and the applicant is confident that this will ensure that the unlikely event that a fire occurs that appropriate p to manage this effectively.
7.	Fuel supply and need		
	<ul> <li>The (RI brown economic economi</li></ul>	e capacity of the incinerator is around 3 times the current volume of refuse derived fuel DF) dealt with by Dorset Waste Partnership, a vast quantity of RDF would need to be ought to the island from elsewhere, either by road or ship for the plant to be onomically viable, contrary to the proximity principle e incinerator would be a threat to national and local recycling goals e 3 hour drive time takes in areas that cannot be said to be local and Powerfuel will not cept any condition restricting the geographical source of the RDF. ry little of Dorset Council's waste now goes to landfill. The true comparison is with the tual situation which, from 1 September 2021, is that Dorset Council's RDF will go for ineration to Bridgwater in Somerset. Whilst this is indeed a longer journey from CM an the journey to Portland Port, against this must be weighed the fact that PfP wish free n to import RDF from anywhere in the world and even RDF transported by road could me from as far afield as Gloucester, Hammersmith or Worthing. ere is now a shortage of RDF due to overcapacity of incineration in Europe as a whole gland has sufficient capacity, either already operating or planned to 2020, to manage a country's residual waste requirements, and additional capacity would not necessarily needed to meet the country's ambition of no more than 10% municipal waste to landfill 2035 e Dorset Waste Strategy (2017) covering the period until 2033 does not identify energy zovery as a need for waste in Dorset, and allocates four sites, which Portland is not one a information has been given as to where the RDF)which the plant would burn would me from. The site certainly makes no logistical sense in the management of Dorset uuncil's black bin waste s far removed from Canford where the RDF from our waste is created and therefore es not comply with the 'proximity principle'.	The applicant's position on waste need is set out in t and the Planning Supporting Statement. Additional ir in the form of the Waste Need Paper, providing furth requested by Dorset Council's letter. These confirm that there are large volumes of residua Dorset that would provide potential feedstock for the Need Paper confirms that the Canford facility is curre tpa of RDF, derived both from municipal and comme arising in Dorset. This is higher than the 60,000 tpa f application as a conservative figure. The Canford fac expand its RDF production capability in the near futu this waste is expected to be diverted to the Portland considerable volume of Dorset derived RDF available suitably sized. It is also likely that, with additional RD Portland, other existing waste operators will look to in capacity to supply Portland, avoiding the more exper county to landfill or other ERF facilities. The Supplemental Planning Supporting Statement an documents clearly demonstrate that the facility is in a principle. The ERF would manage RDF, in so far as this is resid further recycling or value can be gained other than en Dorset's waste to be processed to RDF, more mater waste that would otherwise go to mass burn ERF or rather than competing with it. As a merchant facility, the applicant cannot accept c sources but the applicant is willing to enter into an ap obligation that would require the applicant to commit endeavours to source RDF from Dorset where such secured on acceptable commercial terms (see chapt Planning Supporting Statement). Whilst RDF produced in Dorset is shortly expected to Bridgwater ERF, this is a significant distance from Do Portland. It also represents an out of county solution principle and the DWP strategy to manage Dorset's



osed ERF has been submitted ental Permitting process. This asures and the management submitted to Dorset Council for part of the planning process.

vironmental Permit process at fire risk is minimised and in procedures will be put in place

consultees, in terms of

the Waste Need Statement nformation has been submitted ler information on need

al waste being generated in e Portland facility. The Waste ently producing around 83,000 ercial and industrial waste figure initially stated in the cility is expected to significantly ure to around 150,000 tpa and I facility. As such there is a e and the Portland ERF is DF processing capacity at invest in RDF production nsive option of exporting out of

nd other supporting accordance with the proximity

dual waste from which no nergy. In encouraging more of rial will be recovered from landfill, increasing recycling

conditions limiting waste ppropriately worded planning t to making reasonable waste is available and can be ter 5 of the Supplemental

o be transferred to the orset and further than contrary to the self-sufficiency waste in Dorset. The Carbon

			Assessment also concludes that this is less beneficia at Portland that provides shore power benefits.
			The UK does not have sufficient capacity to manage by the high volumes of waste that are still being land treatment in ERFs.
			The planning policy case for the Portland ERF project with the DWP need and site allocations is set out in t Statement and the Supplemental Planning Supportin that energy recovery is part of the DWP residual was unallocated sites can come forward where these hav allocated sites. The Portland ERF site can fully demo
			The Carbon Assessment demonstrates that the addiderived from transporting RDF from Canford to Portla savings derived from the provision of shore power an outperforms all other Dorset based and identified UK Further, on the basis that district heating is also provide facilities which historically have been significantly more operations.
8.	Grid Connection		
		<ul> <li>The ES sets out the route of the grid connection, but no information is provided on how this grid connection will be constructed. It is not clear whether the cables will be buried or whether they will be overground or what, if anything, has been assessed</li> <li>If there were to be a need this could be met by upgrading the existing supply from the mainland</li> </ul>	The grid connection would be constructed with under other infrastructure. Further details as to how the ER electricity grid and shore power is provided in the sul Paper. The Shore Power Strategy report and the Ene details as to the constraints to the existing supply ner economically feasible for the mainland supply to be u requirement for shore power.
9.	District Heat Network		
		<ul> <li>Powerfuel have not specified an actual customer for district heat. They use the words 'potential' or 'expected' which might give the impression of an agreement where in fact none exists. They mention the prisons.</li> <li>How are you going to get the pipes there?</li> <li>The heat would have to be ducted underground to the prisons and it is hard to conceive of any viable route which would not cross protected areas (SSSIs etc). The location of the site adjacent to a steep hill with cliffs also makes ducting of heat pipes unviable. District Heating is one of the pillars on which PfP try to argue that their plant would be carbon neutral.</li> <li>Local and national guidance requires that new incineration plant should be able to supply a local heat network</li> <li>The pipes will be ugly and potentially accessed by terrorists</li> <li>The construction footprint for this scheme would be huge and would cancel out any gain in terms of use of heat</li> <li>Any consent should have clause inserted ensuring the plant has the relevant technical equipment (PHE, Controls, Underground Piping etc) installed during construction and run to the boundary fence ready for future use. Only ~25% UK WtE plants currently utilise heat off take. There is precedent for this type of condition in any planning consent or via a S106 agreement</li> <li>Installing underground ducted pipes to the prison via the road network would not be viable as it would involve the pipes travelling along Castletown, Castle Road and Verne Common Road, a distance which would mean that most heat would he lost en-route</li> </ul>	The applicant has held extensive discussions with the respect to the potential opportunity to meet its heat of prisons, including technical feasibility. The applicant a towards an agreed memorandum of Understanding (would take heat from a heat network if this is provide therefore provide the anchor tenants for the network, expansion to other heat customers. The District Heating report provides details on a route technical and planning perspective, using existing road control, without crossing any ecologically designated backed heat customer identified and a MoU in prograto deliver the required heat network. The ERF would be capable of supplying a local heat and national guidance. The heat pipes will be installed underground and woul understand the reference to "a terrorist attack" noting 80°C hot water which is unlikely to be a key target.

l in carbon terms than an ERF

residual waste as evidenced filled or sent to Europe for

t in terms of its compliance the Planning Supporting ng Statement. These conclude ste strategy and that ve advantages over the onstrate such advantages.

litional carbon emissions land is off-set by carbon nd/or district heating and < based alternative facilities. *v*ided it outperforms European ore efficient than UK

erground cables, similar to RF would be connected to the ibmitted Grid Connection ergy Need Statement provide atwork and why it is not upgraded to meet the Port's

e Ministry of Justice (MoJ) in demand for the two Portland and the MoJ are working (MoU) confirming that the MoJ ed. The prisons would a, with potential for future

te that is viable from a bads and land within Port d areas. With a Government ression, the ERF is highly likely

network, as required in local

uld not be visible. We do not g the pipes will be transporting



		<ul> <li>PfP's carbon calculations repeatedly include supply of district heat they should be discounted</li> <li>It is not clear that there is a good business case for siting the incinerator plant in this location.</li> <li>The suggestion of a local domestic heating network is economically unrealistic, as evidenced by the lack of commercial interest</li> <li>Powerfuel Portland have no plans to build infrastructures for heat transfer to the community. No community beneficiaries have been identified, and underground heat pipes to HMS Verne &amp; Grove Prisons, identified as 'potential customers' are unfeasible</li> </ul>	The applicant has stated that the ERF will be CHP reaconstructed with equipment in place enabling the heat has also offered to commit to an obligation in the s10 to supply such a local network with heat, subject to suagreement being reached. The MoU being progressed more likely to be achieved. The District Heating report provides details on the tecc implementing the heat network to serve the prisons. This ulated and connection between the ERF and the prisignificant heat loss. The installation of the heat network associated carbon benefits of heat to the prisons and far outweigh the relatively limited carbon input required. The Carbon Assessment demonstrates that the Portla capability outperforms all other identified facilities from There are additional carbon benefits of establishing a supported by national and local policy frameworks. As Heating report, the MoJ interest in taking heat from a credibility of the proposal and underlines the technica its implementation. The applicant has demonstrated that the heat network will be delivered and that substation attributed to the advantage of delivering a local heat methods.
10.	Health Impacts		I
		<ul> <li>Health of residents exposed to the toxic residue of the incineration process will be adversely affected.</li> <li>I fear that the air quality in the immediate area would be affected by the increase of congestion to a narrow road due to increased traffic due to HGV's and any employed at the site</li> <li>There is published evidence in peer reviewed medical journals that fine particulate pollution is responsible for both cardiovascular and cerebrovascular mortality. The danger is greater than previously realised.</li> <li>There are concerns around start-up and shut-down of incinerators as most assumptions around their safety are taken from data based on emissions during standard operating processes</li> <li>The type of waste incinerated will be continually changing, this means unknown unidentified compounds will increase the potential for acute toxic effects on the immediate neighbourhood and further afield</li> <li>The authorities have a duty of care to its citizens, which, I feel, would be breached should they grant permission for this waste plant.</li> <li>Given the population carries a disproportionate level of ill health, we should not expose the population to further risk through adding a significant direct pollution source to the area.</li> <li>A recent study (2020) of more than a thousand adults in south east London by researchers at Kings College, London (led by Dr Bakolis) found that 'an incremental increase in nitrogen dioxide, heightens the risk of common mental disorders by 39% and that people living in places with higher levels of particle pollution are twice as likely to experience mental health problems as those in the least polluted areas. The other health impacts would be respiratory. That conclusion must raise serious concerns regarding this proposal</li> <li>Incinerators are associated with an all round linear increase in mortality - Higher incidences of all cancer and congenital abnormalities Incinerators are amjor source of carcinogenic dioxins, mutagens and other hazardous fine par</li></ul>	The emissions from the ERF have been modelled usin modelling and this is subject to independent checking technical consultants and is also subject to rigorous of Agency under the Environmental Permitting regulation controlling emissions. The potential risk to human health from the proposed based on the air quality modelling dispersion, which c emissions are well below permitted levels set to prote Health Risk Assessment (HHRA) and Health Impact A updates together demonstrate that the proposal will n on public health. The references made to diseases and academic pape ultimately considered by Public Health England (PHE), advisors on such matters. PHE has reviewed all acade relation to health impacts from such facilities and has position. 'modern, well managed incinerators make only a sma concentrations of air pollutants. It is possible that such an impact on health but such effects, if they exist, are not detectable'. PHE's consultation response has considered the sub- respect to air quality and human health has concluded "The submitted assessments does not specify specific but identifies the maximum predicted process contrib significant impacts have been identified in the docume

ady and will be designed and at network to be connected. It 06 legal agreement for the ERF suitable commercial ad with the MoJ makes this

chnical viability of The heat pipelines are prisons is achievable without ork and long term supply and d potentially other users would ed during construction.

and ERF with shore power m a carbon perspective. local heat network, which is s demonstrated in the District network confirms the al and commercial viability of that there is high probability cantial weight should be network and carbon

ng sophisticated air quality g by Dorset Council's own review by the Environment ns, the statutory authority for

d ERF has been assessed concludes that pollutants in ect human health. The Human Assessments (HIA) and not have an adverse impact

ers by consultees are ), the Government's statutory demic research and papers in adopted the following stated

all contribution to local ch small additions could have e likely to be very small and

omitted information and in ed that:

ic human sensitive receptors oution for residential areas. No rentation, and PHE is satisfied



			that the applicant is using a model and assessment of guidance and good practice
			PHE is satisfied that the approach taken in the asses adopted conservative but not over-precautionary app potential risks."
			Also in respect to traffic:
			"It is, therefore, expected that any increased vehicle is significant impact on local air quality, including at local sensitive to traffic emissions."
			In respect to fugitive emissions to air (dust and odour
			"We would expect that the use of a construction env. (CEMP) employing appropriate mitigation measures with the operation of the ERF will be subject to an En- conditions of which would ensure that fugitive emissionare kept to a minimum."
			Overall, PHE concludes that:
			"PHE is satisfied that the applicant has approached to Assessment (EIA) in a manner consistent with the Uk utilised a satisfactory approach and methodology to distribution of a range of key pollutants, and the impa- and receptors. The proposed facility will be regulated prevention and control regime and we would recomm authority ensures that it will operate to Best Available
			The PHE conclusion based on the technical informat application and associated EIA confirms that the ERF impact on public health and this will be further consid Environmental Permitting process.
11.	Cultural Heritage		
		<ul> <li>There are grade I and II listed buildings in the area who's settings would be adversely impacted by the plant.</li> <li>Castletown is a conservation area and recently there have been many positive contributions and investments to the improvement of the area from residents and businesses. This development will seriously detract from the local landscape area. The detrimental visual impact will irreversibly damage the seascape</li> <li>The effects and impacts of the proposed industrial building and plume, located on a site within the port has a significant effect on the settings of designations that have been awarded to the local landscapes, coastline and seascape including the World Heritage Site, AONB, and also to a Scheduled Ancient Monument, listed structures at sea, and architectural listings and conservation areas.</li> <li>The methodology used in the cultural heritage assessment is vague and ambiguous and seems to be designed to underplay the significant adverse effect on a number of listed buildings including the breakwater and former dock offices and the East Weare batteries as well as the Grade II* Verne Citadel and Portland Castle</li> <li>The courts have established that the desirability of preserving listed buildings and their settings should not simply be given careful consideration but should be given</li> </ul>	The potential impact on local heritage assets, includir listed buildings and structures and conservation area the heritage assessment that formed part of the EIA. Dorset Council's conservation officer who has conclu- some harm caused to the setting of designated and but this harm was 'less than substantial'. On that bas considered in the context of any public heritage-relat guidance. The applicant has held further discussions with Dorse officer, in association with Historic England, to develo Mitigation Strategy that would facilitate works to be u and stabilise the structure's condition, with future ma Battery (scheduled monument) to be removed from t Register. Other benefits would include the establishm path across the Portland Port land estate, linking up an around island route, to enable public appreciation part of East Weare, together with the provision of inter to the various heritage assets.

criteria that are in line with UK

sment and the operator has proaches to assessing the

movements will not have a ations identified as being

r) PHE concludes that:

ironmental management plan would ensure that dust does nstruction phase. PHE note vironmental Permit, the ons beyond the site boundary

the Environmental Impact (requirements. They have predict the likely emissions, act on the local environment I through the pollution mend that the regulatory Techniques (BAT)."

ion provided in the planning <sup>-</sup> would not have an adverse dered and regulated under the

ng Scheduled monuments, as has been fully assessed by This has been considered by uded that there would be undesignated heritage assets, sis any harm would need to be ted benefits in line with NPPF

et Council's conservation op a Framework Heritage undertaken to remove scrub anagement, to enable the E he Historic England At Risk nent of a permissive public existing paths and facilitating of the heritage assets in this erpretive information in respect



	<ul> <li>'considerable importance and weight' when the decision-maker carries out the planning balance. The fact that the ERF would have an adverse impact on the setting and significance of a range of heritage assets weighs heavily against it</li> <li>I agree with the concerns raised by Historic England regarding the potential impact of this proposal on the setting and significance of several nationally important scheduled monuments that form a key component of the historic port</li> <li>Locality the potential for any development to have direct and indirect and cumulative impact will need to be balanced against other sustainable development objectives</li> </ul>	The principles of the Framework Heritage Mitigation and developed with input from Dorset Council cons England and Portland Port and broadly supported b The Framework Heritage Mitigation Strategy will ens the setting of heritage assets is more than off-set by benefits.
12.	Light Pollution	
	<ul> <li>Objections to the light pollution which I am informed is often on for 24 hrs of the day.</li> <li>Red aviation warning lights will be provided on or near the top of the chimney stack in accordance with CAA and international guidance. Do the Civil Aviation authority have any observations which would be material considerations on this application?</li> <li>Will safety needs of those flying in the area will be satisfied with the provision of just a night light at the top?</li> <li>At present there is no provision in the design for highly conspicuous painted manifestation included in the design which might make it highly visible to emergency flights attending to an incident in the area</li> </ul>	The planning application is accompanied by a Light the potential for light spill taking account of the exiti proposals for lighting at the ERF. It sets out a range minimise the potential for light spill and a lighting str operational requirements can be met whilst minimis and the surrounding area. In addition additional photo views and montages ha request of the Dorset Council landscape officer to d visibility. These are provided in the ES Addendum a and demonstrate that the proposed lighting would r visual impact from key viewpoints Statutory consultees have confirmed that a red ward the stack, but no other concerns or requirements has safety for aircraft
10	Noine and Odeur	
13.	Noise and Odour	
	<ul> <li>What about the noise of the plant, which will be running continuously?</li> <li>What about odours coming from the waste being transported into the plant?</li> <li>What happens to unbundled waste being transported? Surely it can easily be blown into the sea and onto the land?</li> <li>Prevailing winds are from the South West and will carry smell to the mainland as well as the island.</li> <li>Increased noise will come from construction, operation and transport, the noise from operation and transport will be infinite</li> <li>There are many homes, schools and businesses along the only route on and off Portland. Each and every one of these properties will be affected 24 hours a day by noise, vibration, odours and pollution from the increase in heavy goods vehicles</li> <li>I also live near to Portland harbour and am already aware that noise from the port travels across the water on a calm day. Therefore this incinerator will increase noise levels</li> <li>The direction of the wind will mean we will likely frequently be able to smell the fumes in Wyke Regis</li> <li>The smell will drift over Weymouth and lower tourism</li> <li>It will be necessary to keep household windows closed at times when the wind is blowing fumes and dust in their direction</li> <li>There will be increases in noise pollution, leading to lost productivity</li> <li>The noise from the incinerator will affect many residents in Castletown</li> <li>14.1 object to these plans on the grounds that they would constitute a nuisance detrimental to the mental health and wellbeing of nearby residents through excessive, constant noise. Further to the noise, dirt, vibration and pollution from the 80 HGV movements per day required to service the incinerator, I believe the plans include 3 x</li> </ul>	<ul> <li>Although noise and vibration were scoped out of the the original planning application was accompanied a Assessment. This concluded that the noise effects businesses, from the construction and operation of to be significant. It also highlighted that construction through best practice means of working and operation building design.</li> <li>An updated Noise Impact Assessment has been un noise impact, with the benefit of baseline noise survithe time of the application due to Covid-19 restriction transport and commercial activity. This assessment rating sound levels from the ERF would be below the locations assessed. In absolute terms the levels are effect of noise from operation of the ERF would be reference of the application due to covid the time of the assessment (HIA) has for health impacts associated with noise during con ERF and concluded that this would not give rise to a Based on the submitted technical information the Elsignificant impacts arising from noise and vibration. controlled through the use of planning condition and Odour was scoped out of the EIA as not significant.</li> </ul>
	industrial cooling fans, with no acoustic insulation. These fans will produce a noise level of	the mitigation measures that would be put in place

n Strategy have been discussed servation, ecology, Historic by all parties as deliverable.

sure that any harm caused to y the public heritage-related



ing Statement that considered ng lighting conditions and the of mitigation measures to rategy. It concludes that ing light spill beyond the site

ave been submitted at the determine the longer view and also the DAS Addendum not cause any unacceptable

ning light would be required on ave been raised in respect to

e EIA and not being significant, by a stand alone Noise Impact on local residents and the facility were not considered n noise would be controlled tional noise through the ERF

ndertaken to consider potential vey information (not possible at ons), reflecting more normal t concludes that the predicted he background levels at the e also low, indicating that the not significant.

also considered the potential istruction and operation of the any significant health impacts.

RF would not result in any Noise levels will be further d the Environmental Permit

. Chapter 2 of the ES sets out to control odour. The

		approx. 80-100 Db each. This constant noise, 24 hours a day, will have a significant detrimental effect on the mental health and wellbeing of close residents, especially at night.	Environmental Permit will also include conditions to p beyond the boundary of the site. The information submitted demonstrates that the cor
14.	Planning Policy		noise and odour are unfounded.
		<ul> <li>The proposal does not comply with the NPPF</li> <li>The development does not comply with the development plan objectives and policies (Dorset Waste Plan, West Dorset, Weymouth and Portland Local Plan and Portland Neighbourhood Plan) in respect to sensitive landscape designated areas (AONB and WHS), heritage assets (scheduled monuments listed buildings and conservation areas), important and designated areas), highways, recycling, and emissions to air (including carbon dioxide).</li> <li>Does not comply with Dorset waste policy of locating incineration facility near to a facility for treating the ash generated</li> <li>Does not comply with Dorset waste policy that waste incineration development should be at one of the allocated sites under Policy 3.</li> <li>Eco Sustainable Solutions have announced their intention to submit a planning application for the Parley site which IS one of the allocated sites. That incinerator would be less than a third of the size and would still be larger than necessary for the burning of RDF generated from Dorset Council residual waste</li> <li>The proposal does not meet the criteria set out in Policy 4 in respect to the location of waste management sites</li> <li>Contradicts the Dorset Council's Declaration of a Climate and Ecological Emergency' and the associated draft Strategy and Action plan</li> <li>Does not reflect the UK Government objective to become the world leader in low cost clean power generation</li> <li>The application is not in compliance with the Dorset Waste Plan in terms of either the location or the importing of waste from outside the area</li> <li>The proposal will fail to 'safeguard and enhance local amenity, landscape and natural resources, environmental, cultural and economic assets, tourism and the health and wellbeing of the people.<sup>1</sup></li> <li>The availability to such a facility in Dorset can only serve to distract from what is rightly the main focus of this objective to ensure sustainability, to reduce waste (the top level of the hierarchy). Moreov</li></ul>	The applicant has fully explained within the submitted Statement and the Supplemental Planning Supporting proposed ERF complies with the relevant policies of t including the Dorset Waste Local Plan, Weymouth and Portland Neighbourhood Plan, together with support and frameworks that are important material considera- to the case for the development. These documents explain how the proposals accord management principles of the waste hierarchy, self-si- principle and how these should be applied. The Dors waste treatment capacity in Dorset that is capable of removing the current need for Dorset's waste to be e- reducing the need for landfill. This accords fully with t principles. The submitted information also sets out how the prop provide advantages over DWP allocated sites includir district heating, port location and ability to accommon storage when this becomes viable. It also fully demor ERF would not prejudice other DWP allocated sites c Eco-Sustainable Solutions facility at Parley), should th permission and be successful in raising funding, and spatial strategy through provision of a proximate outle produced from Dorset's residual waste. The Waste Need Statement clearly demonstrates that treatment capacity to meet Dorset's needs and more Dorset than what the ERF capacity could deliver. As set out in the revised Carbon and Greenhouse Ga ERF would deliver significant carbon reduction benefit through recovery of energy to supply shore power an comparison to the existing waste management scena which off-sets any modest additional carbon emission of RDF material. The technology provides a low carbo complies with the national and local strategies, declar carbon reduction. The potential to support carbon capture and storage, availability and port location, further demonstrates the reductions and the locational advantage of the Portla allocated sites. The ERF will support the production of more RDF, fro extracted prior to management at the ERF, therefore high levels of recycling and managing waste that can support mor

prevent fugitive emissions

ncerns expressed in respect to

d Planning Supporting ng Statement how the the local development plan, nd Portland Local Plan and t from other plans, strategies, rations lending further weight

d with the key waste sufficiency and the proximity set ERF will provide residual f meeting Dorset's needs, exported out of county and these key waste management

posed ERF at Portland will ing provision of shore power, odate carbon capture and instrates how the proposed coming forward (including the that be granted planning I would support delivery of the let for RDF currently being

at there is a need for additional e waste feedstock available in

as Assessment, the Portland fits by off-setting carbon nd district heating in hario and other scenarios, ons arising from transportation oon source of energy and fully arations and action plans for

e, as a consequence of land ne potential for further carbon and site over other DWP

om which recyclables are e increasing Dorset' existing nnot be recovered. It would is suggested in some exported direct to landfill or



			The submitted Economic Impact Assessment demor deliver substantial economic benefits for Portland, W provision of shore power at Portland Port will safegua future local economic growth in tourism and other re- the cruise liner visit business. The extant consent for the WtE facility on the applica fuelled by vegetable oils (including waste oils), supple the facility was termed an 'energy plant' it was intence fuelled in part by waste materials and therefore is a re-
15.	Shore Power		
		<ul> <li>Given the main driver is to supply shore power (up to 15MW for shipping), this electricity would often not be available to the national grid, as was originally claimed.</li> <li>On a practical level how will funders ensure compliance with the plant Power Purchase Agreement to sell all the electricity, if they plan to periodically offer shore power to the port.</li> <li>AMP is a credible emission reduction technology provided only that the electrical power supplied to the vessel is generated from zero-carbon or renewable sources (wind, solar or nuclear).</li> <li>The proposed Portland incinerator merely shifts the carbon/GHG pollution from the visiting ship's funnel, a few hundred metres to the incinerator smokestack; whilst contributing absolutely nothing to the reduction of local air pollution; thereby defeating all of the forthcoming regional (EU) and UK National objectives to improve air quality</li> </ul>	<ul> <li>Information in respect to the provision of shore power Shore Power Strategy report and the updated Shore ERF will have an export capacity of 15.2MW and this between the shore power and the grid (subject to lim operates in CHP mode). As demand will vary over tin the time), the excess energy will be sent to the local of Appropriate financial mechanisms will be put in place distributed to shore power at the port.</li> <li>The ES Addendum and air quality assessment, provion the effects of shore power on air quality, resulting liners and RFA shipping) turning off their engines whe demonstrates that the provision of shore power will creductions in NO<sub>x</sub> and particulates, and to a lesser de Carbon Assessment concludes that shore power, fact make a significant contribution towards achieving call off-setting existing sources.</li> </ul>
16.	Tourism		
		<ul> <li>Tourism (so important to the area) will be adversely affected.</li> <li>Portland is a popular area for rockclimbers and several climbing areas are near the proposed site for this incinerator, which could be ruined by pollution and smell</li> <li>Portland is home to the National Sailing Academy, which frequently hosts major international sailing regattas including the Olympics, because Weymouth Bay is one of the best sailing areas in the whole world. The incinerator would damage this reputation</li> <li>We are seriously concerned with how people may experience the character of the local landscape and seascape and how this would impact on future visitor numbers and water sports businesses</li> </ul>	The submitted Economic Impact Assessment demor deliver substantial economic benefits for Portland, W provision of shore power at Portland Port will safegua future local economic growth in tourism and other re- the cruise liner visit business. The applicant does not envisage that the ERF, by me commercial port sited so that it is not visible from mo dissuade rock climbers of sailors from continuing the Portland. There is no evidence that the provision of ERFs caus and it is considered that the ERF would form part of associated with the existing commercial port. The sit employment site in the local development plan and is permission for an energy plant, comprising large indu
17.	Traffic and transport		
		<ul> <li>Road infrastructure is insufficient feeding</li> <li>The incinerator accessed by lorry would make traffic congestion through Weymouth and on to Portland even worse than it is already daily</li> </ul>	Potential impacts on road infrastructure and human h submitted EIA and associated Transport Assessment Health Impact Assessment.

nstrates that the ERF will Veymouth and Dorset and the lard existing jobs and support elated activities associated with

ation site was proposed to be emented by waste tyres. Whilst ded and consented to be relevant material consideration.

er is provided in the original e Power Strategy report. The s power will be distributed nited reduction if the facility me (ships will not be in port all distribution grid.

e to enable power to be

ides quantitative information g directly from shipping (cruise en docked in port. This deliver benefits in terms of net legree sulphur. The revised acilitated by the ERF, would arbon emission reductions, by

nstrates that the ERF will Veymouth and Dorset and the lard existing jobs and support elated activities associated with

eans of its location within a ost parts of Portland, would eir activities and visiting

ses any reputational damage the industrial development te is a safeguarded s subject to an extant planning ustrial structures and stacks.

health are considered in the nt, Air Quality Assessment and



		<ul> <li>HGV's are almost 7 x's more likely than cars to be involved in fatal collisions on the roads, in particular minor roads</li> <li>Objector group counts of articulated lorries show that the number would increase by about 80% at Fords Corner and about 200% at Castletown</li> <li>The increase in traffic, particularly lorries, is deeply concerning for roads that can already be extremely over-crowded in the summer. There is only one road route on and off Portland and access to the causeway is through residential areas.</li> <li>Further congested from extra HVG vehicles is damaging to the local areas, to the quality of life of people and children living there, as well as having a detrimental effect on pollution, the environment and health as well as increased noise levels and damage to the road surfaces and adds to the likelihood of more accidents</li> <li>There will also be an increase in traffic and the associated negative impacts during the construction phase. In an area which is trying to grow its tourism, for visitors to be faced with HVG vehicles moving on and off Portland, along with the congestion, particularly, in the summer months, will be greatly off-putting and not something that is conducive to nurturing this important local industry.</li> <li>Any further traffic to and from Portland is going to have a negative effect</li> <li>This traffic will also likely put air quality at Boot hill over the air quality limit and possibly in Chideock too if importing RDF from the West.</li> <li>Surely a responsible Council should be asking, what is the very least we can do to ensure accidents are avoided in future? What are the very smallest measures we can take - now, today - to ensure there are safe, environmentally-sound routes to and from school for local children?</li> <li>According to Public Health England, in the UK, between 28,000 and 36,000 deaths per year are attributed to long-term exposure to air pollution</li> <li>The cycle route, the only "green" access to Portland, is adjacent to the road. It is</li></ul>	<ul> <li>This has concluded that a safe access can be achiev movements associated with the facility when conside overall highway network and traffic levels would not g highway impact. As such the concerns cited regardin development on highway congestion and adverse impoundation.</li> <li>It also confirms that there would be no significant hear either from the construction or the operation of the Effmovements.</li> <li>Potential air quality impacts on Boot Hill and Chideoc the original EIA and reported in the ES. Further conside these aspects in the ES Addendum and associated a HHRA in respect to traffic and process emissions. In found that the original ES assessment conclusion, that significant, was unchanged.</li> <li>The Chideock AQMA lies to the west of the proposed As set out in technical appendix A (scoping) of the original EG to the would trans additional HGV movements on the wider Dorset road levels that would trigger the requirement for detailed a HGV trips are predicted to be along the A35 westbou impact of the proposed development on any AQMA v assessment.</li> </ul>
18.	Landscape and Visual Impa	ct	
		<ul> <li>This will destroy the view for which many visitors come (and return year after year). Visually the incinerator is hideous</li> <li>This area of the south coast is a national heritage site and the buildings which will be visible from much of the cost line around Weymouth would decimate the natural landscape</li> <li>It would have a detrimental effect on the landscape of Portland Island and the setting of the Jurassic coast world heritage site, as well as impinge on the Dorset AONB (potentially a new National Park)</li> <li>The building looks very over-sized compared to anything else in the area and would spoil the area of specific interest and the Jurassic coast which the town and council should be promoting rather than spoiling.</li> <li>The building would be a major eyesore</li> <li>Such a large industrial plant, with a stack and plume which would be visible from Weymouth Bay and Portland Harbour, would have a detrimental effect on the landscape of the local area</li> <li>The plan to 'camouflage' the stack with a photograph mimicking the landscape is, frankly, laughable, it demonstrates how ignorant the applicants are about Portland's specific geography; nobody local to the island would believe a photograph stands a chance of surviving the salt and high winds of a Portland winter.</li> <li>The proposed architectural style is that of brutalism, which certainly doesn't complement the landscape</li> </ul>	<ul> <li>The ERF has been carefully and sensitively designed, Council landscape officers, to minimise visual impact character and wider views from designated landscap and the WHS.</li> <li>The design reflects the local geology of Portland and with this also translated into the use of appropriate cl high quality building that provides a landscape feature into its surroundings to limit visual impact. The ES (La Assessment) recognises that whilst the development overall this is deemed to be acceptable.</li> <li>Further information has been requested by Dorset Corpotential effects of the plume, and night-time visibility has been provided by means of an update to the orig Addendum. Further information is provided in the DA covering the likely number of occurrences and the tim the duration of any visible plume based on meteorolo (and maximum) length of plume expected, together with the sum of the visual impact assessment that the plume is likely alteration to the view for a very limited number of hour set of the plume of the plume is likely alteration to the view for a very limited number of hour set of the plume is likely alteration to the view for a very limited number of hour set of the plume is likely alteration to the view for a very limited number of hour set of the plume is likely alteration to the view for a very limited number of hour set of the plume is likely alteration to the view for a very limited number of hour set of the plume is likely alteration to the view for a very limited number of hour set of the plume is likely alteration to the view for a very limited number of hour set of the plume is likely alteration to the view for a very limited number of hour set of the plume is likely alteration to the view for a very limited number of hour set of the plume is likely alteration to the view for a very limited number of hour set of the plume is likely alteration to the view for a very limited number of hour set of the plume is likely alterating the plume is likely alterating the plume is likely alteratin</li></ul>

red and that the HGV ered in the context of the give rise to any significant ng the potential impact of the pact tourism are without

alth related impacts arising RF, including from vehicle

k were considered as part of deration has been given to air quality assessment and respect to Boot Hill, this at the effects would not be

d development, along the A35. iginal ES, the HGV routing sport) confirms that the I network will be below the analysis. Only eight of the 80 und. For this reason, the was scoped out from the

with guidance from Dorset on the local setting and e areas such as the AONB

its immediate cliff setting, adding materials to provide a e, but also successfully blends andscape and Visual Impact would result in some impact,

ouncil in respect to the associated with lighting. This ginal LVIA, as part of the ES S Addendum document in ning of these, together with ogical data and the relative with additional visualisations

original landscape, seascape to produce only a very minor irs. As a result, the visual



		<ul> <li>The building will have a combination of printed PVC mesh with an image of the cliff face vegetation and profiled metal cladding. As the PVC mesh will not reflect any seasonal changes in the surrounding vegetation, it will still represent an alien feature in the landscape.</li> <li>The long-term durability of this building treatment option needs to be demonstrated, preferably by showing that it has been successfully used on a building of this scale and in an exposed coastal location. As the proposed building treatment is critical to the mitigation of landscape and visual impact, if the long-term durability cannot be satisfactorily demonstrated, then an assessment should be undertaken of an alternative option or without the PVC mesh in place.</li> <li>This mesh concept can only work when it is viewed from particular viewpoints. Other viewpoints will reveal a massive structure out of scale with every other building within at least a 30 mile radius.</li> <li>This development is of a size and scale completely incompatible with its setting. The main building is absolutely enormous and will dwarf all other structures in the Port area, while the chimney at 87m above sea level would constitute an eyesore totally out of keeping with the rest of the environment</li> <li>PfP have refused to comply with the instruction that they should produce images with the stack plume showing, as the visual impact of the plant is atrocious from all viewing angles without it; a 200m visual plume would highlight even further that that this development is completely out of scale with its surroundings</li> <li>This massive plant would be a major eyesore, significantly damaging not only the iconic character of the Isle of Portland but also views from miles around, including the impressive views of the Isle of Portland but also views from the sea. This would fundamentally harm the setting of the Jurassic Coast World Heritage Site and the landscape character of the whole region</li> </ul>	effects for each of the receptors assessed in the ES of assessed. The design approach is set out in the original DAS are building that appears recessive through the use of a of its setting and context is supported by Dorset Counce information is provided in the DAS Addendum in resp mesh cladding, and its durability and effectiveness with achieving the required tonal variation. The proposal is main building (not the stack). The applicant is confide approach will be successful and the details of claddir Council officers by planning condition. Whilst it is recognised that the scale of the ERF is large has been undertaken to consider the proposed build built development associated with the operational po A wrap-around elevational drawing is provided in the that the proposed development sits comfortably with the existing large structures at the port and other buil Weare. The development and buildings, as is being su
19.	Water Pollution		·
		<ul> <li>As a sailor and fisherman I am hugely concerned about the risk of water pollution</li> <li>At present we have great diversity of marine life in the bay. Local restaurateurs, pub and café owners gain significant income from promoting and serving the local catch of fish and crab. Increased pollution in Weymouth Bay and the waters around Portland will affect marine life. Even if this were not the case, would visitors really want to eat fish or crab that has been caught in the waters around an incinerator burning toxic waste?</li> <li>The increase in cargo to ship waste and removal of the resultant toxins increases the risk of pollutants from oil and from toxic waste. This will have a serious impact on marine life and to the health of our entire coastline and residents</li> <li>As a fishing family we rely on making our living from the sea. We do not know what the impact of particles or run off would have to marine life. Have long term studies been done?</li> <li>Pollution of sea and marine creatures around Weymouth and Portland could be irreversible should this go ahead, shellfish and fishing industries could be hit as fish shelfish, such as prawns razor fish winkles cockles breeding fish in Portland harbour could become subject to many changes in pollutants and the effects of tonnes of carbon dioxide mixing with salt water</li> <li>The marine area around Portland harbour and the seas which surround Weymouth and Portland and very sensitive areas bursting with a multitude of marine inhabitants and the potential risk of adding residual contaminants into the tidal flows could be catastrophic to these delicate eco systems that are around our shores , we have a number of marine conservation areas as well.</li> <li>The impact of low level but long term mercury emissions over coastal fisheries has not been adequately studied by consultant authorities</li> <li>Humans bathing and engaging in water-sports, would be at potential risk from residual contaminants into the sea</li> </ul>	The potential environmental effects of the proposed E original ES, taking account of the measures proposed environment. These control measures, relating to the drainage and waste water are set out in Chapter 2 of environmental impacts form the proposed development chapter 8 of the ES (ground conditions and water quar measures that will be taken as part of an environment safeguard water quality. The assessment has also co- spillages form vehicles and from the delivery of RDF r A framework Construction and Environmental Manage submitted, to be agreed with the Environment Agence ensure that there are no adverse impacts on coastal The operation of the site will also be controlled throug As such the potential for any pollution of the water er negligible and not significant. The applicant has noted the concerns raised by local potential for pollution, and specifically the effect that a might have on shellfish and the wider marine environ the proposed ERF on the marine environment have to marine consultancy ABPmer, and its report is submit further environmental information under Regulation 2 Overall, the ABPmer report considers that the concert that the proposed ERF would not have any significant

chapter remain as originally

nd the approach to develop a cladding system reflective of cil's landscape officers. Further pect to the use of the pvc vith options identified for s to apply this treatment to the ent that the proposed ng can be agreed with Dorset

rge, further contextual analysis ding in the context of existing ort area and its wider context. e DAS Addendum, illustrating hin the scale of Portland and ildings located within the East e when viewed in the context uggested by some comments.

ERF are considered in the ed to protect the water e control of surface water of the ES. Potential nent are also addressed in uality). This details a number of ntal management system to onsidered the potential for material to the site by ship.

gement Plan (CEMP) has been cy and Dorset Council, to water or ground water quality. Igh the Environmental Permit.

nvironment is considered to be

al people in respect to the emissions to air and water this imment. The potential impacts of been assessed by specialist itted to Dorset Council as 25 of the EIA Regulations.

erns raised are unfounded and nt effects (in respect to



<ul> <li>The potential for heavy metal build up in marine life cannot be ignored if the run off becomes contaminated.</li> </ul>	potential emissions to the air or water) on the marine or associated human health.
<ul> <li>There is also a high risk that the sea will be polluted as the rubbish cannot be 100% contained and this will kill birds, fish and marine mammals</li> <li>The increase in shipping also causes concern for the state of the barbour and local dive</li> </ul>	
<ul> <li>The increase in shipping also causes concern for the state of the halbour and local diversities if large ships are constantly disturbing the sea bed</li> <li>Sea Grass is a necessary breeding ground for rare and vulnerable species such as seahorses and increased pollution and sea traffic will affect these and other species</li> <li>there are no contingencies in case of a complete failure of the plant and no mention how one of England's most important Sea Bass spawning ground would be protected</li> </ul>	

e environment, protected areas





#### Powerfuel Portland Ltd Portland ERF

#### **Response to UKWIN Planning Application Submission**

### 1 Introduction

UK Without Incineration Network (UKWIN), a national group which campaigns against energy-fromwaste (EfW) plants, has made a submission to the planning authority (Dorset Council) dated February 2021.

We have responded to each section of UKWIN's submission below. We have not necessarily responded to every word, but the failure to comment on something does not mean that we agree with it.

### 2 Committee on Climate Change

In paragraphs 7-32, UKWIN argues that the Environmental Statement (ES) which was submitted with the planning application misrepresents the position of the Committee on Climate Change (CCC).

The ES explained the CCC's position in its statement of 2 May 2019, which was the latest statement when the ES was prepared. UKWIN does not present any evidence to dispute the statement within the ES. The Applicant continues to consider that the CCC's position in May 2019 was that it was critical to divert waste from landfill, which the Facility would support.

UKWIN then include a variety of quotes from the CCC which post-date the ES. The Applicant agrees that the CCC's position supports an increase in recycling and a decrease in landfill, and that there is general support for the application of CCS to EfW plants in the future. However, it is important to acknowledge that the CCC notes that government support is required.

This is most obvious in "The Policies for the Sixth Carbon Budget Report", where UKWIN quotes some but not all of the primary policy. On page 188, the CCC states the following, where the points in bold were excluded by UKWIN:

"If EfW plants under construction and granted planning approval in the UK were all built, and plant utilisation rates remain unchanged, this would add3-10 MtCO2e/year to UK emissions. To prevent this major increase, either a substantial fraction –potentially a majority –of the EfW plant pipeline will have to remain unbuilt, EfW fleet utilisation rates will have to fall, or else carbon capture and storage (CCS) will need to be installed on plants from the mid/late-2020s onwards to mitigate the additional emissions.

-Falling EfW utilisation rates may only be possible in some cases via renegotiation of waste management contracts, in order to prioritise prevention and recycling efforts instead. Government support to assist Local Authorities will likely be required.

-Government policy could also focus on EfW emissions, either through carbon taxation or inclusion in a UK ETS, and/or providing incentives for CCUS to be installed.

-For those plants not yet under construction, new energy-from-waste plants (and plant expansions) should only be constructed in areas confirmed to soon have CO2 infrastructure available, and should be built 'CCS ready' or with CCS."

The third bullet point should be read in the context of the Waste Sector Summary of the CCCs Sixth Carbon Budget Report, which notes (on page 16) that *"The costs of installing CCS on EfW plants are calculated by Element Energy modelling, factoring in energy inputs and the location/distance to sequestration points, and are typically £140-260/tCO2e."* Given that the current carbon price for the UK ETS is around £50/tCO2e, it is clear that further support may be required. This is presumably why the Balanced Net Zero Pathway scenario presented in the Waste Sector Summary assumes that *"All EfW plants are assumed to install CCS by 2050, starting from the early 2040s"*, rather than expecting CCS to be installed immediately.

Subsequently, the CCC has published a new report – "Progress in reducing emissions. 2021 Report to Parliament" (June 2021). This report takes a less positive view of EfW. Its key recommendations to government (on page 128) are as follows:

- "The UK's combined recycling rate needs to increase from 52% to at least 59% by 2025 (45% to 50% for household waste), from which point key biodegradable waste streams should be banned from going to landfill.
- Energy from Waste (EfW) emissions, which have been rising rapidly, need to be constrained at approximately today's levels through increased waste prevention, re-use and recycling, and policy to enable EfW plants to be fitted with CCS from the late 2020s.
- Methane capture rates need to increase from 55% to 80% by 2050 to address fugitive emissions from landfill, while further actions are needed to reduce methane emissions from composting and wastewater treatment."

The CCC also published in June 2021 its "Joint Recommendations – 2021 report to parliament." This includes a number of recommendations on waste policy, including the following priority recommendations to DEFRA:

- Introduce the necessary planning guidance and policy to ensure any new Energy from Waste plants (including incineration, gasification & pyrolysis facilities) are built with carbon capture usage and storage (CCUS) or are 'CCUS ready'.
- Set out how existing Energy from Waste plants will be supported to be retrofitted with CCUS from late 2020s onwards, with 2050 a backstop date for full CCUS coverage.
- Set out capacity and usage requirements for Energy from Waste consistent with plans to improve recycling and waste prevention. Issue guidance to align local authority waste contracts and planning policy to these targets.

The Applicant notes that the CCC does not make policy, but merely recommendations to government. The Applicant also notes that the CCC has decided to move from its position in December 2020 that the Balanced Net Zero Pathway requires the fitting of CCUS from 2040 to a recommendation in June 2021 for fitting of CCUS from the late 2020s, which is consistent with its "Tailwinds" scenario including much faster emissions reductions. It is not clear why the CCC has made this change. The CCC's recommendations also include gradual banning of waste from landfill, but only once there is sufficient alternative treatment capacity and CCUS has been fitted to sufficient EfW plants.

However, as explained in the Planning Statement, the Portland ERF is well placed to install CCS and export the captured CO2 by ship. Hence, the proposed Portland ERF will be CCS-ready, consistent with the CCC's recommendations.

### 3 Sequestration of Biogenic Carbon

In paragraphs 33 – 76, UKWIN argues that landfill should be given a credit for sequestering biogenic carbon and then carries out some calculations on the basis of this assertion. The Applicant does not accept this position and therefore does not accept the calculations.

In paragraph 37, UKWIN includes a quote from Eunomia's 2006 report for Friends of the Earth and links to a separate document which includes quotes from two further reports from Eunomia. The Applicant notes that the context of the three reports is important:

- The 2006 report "A changing climate for energy from waste" was written by the Chairman and founder of Eunomia for Friends of the Earth. The quotation represented the author's opinion on the correct treatment of biogenic carbon when comparing EfW with landfill. This opinion has not been generally accepted by relevant authorities or government, although it has remained Eunomia's position since then.
- The 2010 report was prepared for the European Commission but, again, represents the author's opinion on the correct treatment of biogenic carbon. The lead author from Eunomia was the same as for the 2006 report. As far as the Applicant is aware, the 2010 report did not lead to any changes in the approach to lifecycle assessment.
- The 2015 report was again prepared by the same author as the 2006 and 2010 reports. It was commissioned by Zero Waste Europe (a group which opposes the use of EfW) and was specifically intended to attack the approach taken under the United Nations Framework Convention on Climate Change (UNFCCC) to assessing the greenhouse gas emissions from the waste sector as part of the national inventories. The UNFCCC reporting guidelines currently mandate the use of the 2006 IPCC Guidelines for National Greenhouse Gas Inventories, which specifically exclude biogenic carbon. As far as the Applicant is aware, neither the UNFCCC nor the IPCC has changed its guidelines in response to the Eunomia report.

In summary, while these quotations demonstrate that the Chairman of Eunomia has held a consistent position on this point since 2006 and that UKWIN agrees with this position, the quotations do not support a change in approach by the relevant carbon authorities.

In paragraph 38, UKWIN also states that similar views have been expressed in the academic literature, but provides only one reference to an article published in the Journal of Industrial Ecology in January 2012. UKWIN provides a link to "a version of this paper", which makes it clear that the article is based on the PhD thesis of Annie Levasseur of the University of Montreal in which Ms, now Dr, Levasseur proposes a new approach to biogenic carbon in dynamic life cycle assessment. While this is an interesting thesis, the Applicant does not consider that it represents the academic literature.

The Applicant also notes that the conclusion of the thesis is counter-intuitive. The thesis considers the case study of the use of a wooden chair over 100 years and it concludes that, from a climate change perspective, it would be preferable to landfill the chair at the end of its life or to burn it with energy recovery, rather than refurbishing the chair. This conclusion does not match the waste hierarchy, as it promotes disposal or recovery over reuse.

Paragraphs 39-47 set out UKWIN's calculations on the basis of sequestering biogenic carbon. The Applicant does not accept the basis for these calculations and so has not commented on them.

In paragraphs 48-58, UKWIN disputes the suggestion that a combination of 50% sequestration and 68% landfill gas capture rate is conservative, but does not appear to understand the point which is being made, which is that the two assumptions interact.

Section 6.3 of the Defra Report "Energy Recovery from Residual Waste – A carbon-based modelling approach", read as a whole and attached as Appendix A, clearly indicates that the authors did not recommend that the potential carbon sink effect be included, as explained below:

 While the impact of the sequestration effect on the carbon model was considered in paragraphs 172-184, the Defra 2014 Report notes that there was considerable uncertainty around the calculation. Paragraph 179 states:

"A range of different values exist in the literature for the amount of biogenic carbon that is sequestered in landfill. The baseline assumptions used in this model result in a very high level of sequestration, around 53% for the baseline composition. The outcome will be sensitive to the level of sequestration in two ways. Reducing the level of sequestration will require less biogenic carbon to be included in the EfW side of the model and will also result in more methane being emitted from the landfill side. Both factors will favour EfW over landfill."

- In the submitted Carbon Assessment for the facility (included as technical appendix E of the ES), the Applicant has used a sequestration rate of 50%, which is considered to be a conservative assumption. The Government report "Energy from Waste – A Guide to the Debate" suggests that up to half of the biogenic carbon would be sequestered.
- 3. Paragraph 184 of the Defra 2014 Report concludes that further work is required to understand sequestration levels:

"There is an additional complicating factor regarding the assumptions around sequestration levels. The proportion of landfill gas captured is difficult to measure directly so assumed levels have previously been derived from a combination of measurement of the amount of landfill gas captured as a proportion of the amount modelled as being produced. However, the modelling for this also contains assumptions on sequestration. Therefore, any lowering in the sequestration assumptions will also inherently reduce the assumed level of landfill gas capture. This interaction has not been captured in the above analysis. As a result the scenarios outlined above will be particularly sensitive to sequestration levels with any drop in assumed sequestration significantly favouring EfW over landfill. Given all of these interactions there is a high degree of uncertainty and further work is required."

4. The Applicant considers this section of the Defra 2014 Report, taken as a whole, provides an explanation that the assumed landfill gas capture rates in the Defra 2014 Report are based on a high sequestration rate, which may not be correct, and which is at the higher end of rates in the literature (as stated in paragraph 179). If the sequestration rates are lower, then more landfill gas is being generated than expected and so the capture rates would be lower, making the impact of landfill considerably worse. Hence, the approach used in the Defra 2014 Report and in the Carbon Assessment (i.e., using high sequestration and landfill gas capture rates and not giving an additional credit for sequestered carbon) is considered to be conservative, in that it will tend to favour landfill over EfW facilities.

This can be illustrated with a simple example. The base assumptions in the Carbon Assessment are that 50% of biogenic carbon is sequestered and 68% of the released landfill gas is captured. This means that, for every 200 tonnes of biogenic carbon in the waste, 100 tonnes is sequestered, 68 tonnes is used to generate power and 32 tonnes is released as landfill gas. If, instead, only 45% of the biogenic carbon is sequestered, then 90 tonnes of the biogenic carbon would be sequestered and 110 tonnes would form landfill gas. In this example it is known, from measurements, that 68 tonnes is used to generate power and so the landfill gas capture rate would be 68/110 = 61.8%.

The carbon benefit of the Portland ERF can then be recalculated using these revised figures. The carbon benefit increases (in the nominal case) from  $21,912 \text{ tCO}_2\text{e/yr}$  to  $46,713 \text{ tCO}_2\text{e/yr}$ . At a sequestration rate of 29.5% (which is the sensitivity figure used in the Defra 2014 report), the benefit increases to  $123,687 \text{ tCO}_2\text{e/yr}$ . This is why the Applicant considers that the current assumptions are conservative.

UKWIN's arguments in paragraphs 59-65 refer to the Defra 2014 report, and so do not add anything further.

In paragraphs 66 to 67, UKWIN asserts that the sequestration rate is likely to be higher in the future because food and garden waste will be removed. Therefore, we have evaluated the sequestration rate which would be expected using the Decomposable Organic Carbon Content (DDOC) figures from Melmod, as reported in "Review of Landfill Methane Emissions Modelling (WR1908)".

- For the nominal case, the sequestration rate of biogenic carbon would be 47.6%.
- For the maximum case, with a lower CV, the sequestration rate of biogenic carbon would be 47%.
- For an adjusted nominal case, in which we have removed 80% of the food and 70% of the garden waste for illustrative purposes, the sequestration rate of biogenic carbon would be 49%.

This confirms that the assumed sequestration rate of 50% is conservative, and remains conservative even if most of the food/garden waste is removed.

In paragraphs 68 to 76, UKWIN asserts that material from the Canford MBT plant would have a lower degradability. We have no data on the output from Canford MBT. However, if we assume that there is a reduction is degradability of 30% (which was the performance of the AmeyCespa Cambridgeshire MBT? facility) and that this applies to 60,000 tonnes of waste in the nominal case, we can calculate that the adjusted sequestration rate would be 52.8%. This figure changes the net benefit of the nominal case from 21,912 tCO<sub>2</sub>e/yr to 17,953 tCO<sub>2</sub>e/yr.

#### 4 Landfill as the Counter-factual

UKWIN makes a few specific points in paragraphs 77 to 87 relating to the use of landfill as a counterfactual. The Applicant notes that Dorset Council specifically asked for this case to be considered, as well as the four additional cases which are considered in section 4.4 of the Carbon Assessment.

UKWIN suggests that there is current overcapacity in incineration plants in some European countries. This is correct for individual counties. However, in the EU as a whole, large quantities of municipal waste are sent to landfill. According to Eurostat<sup>1</sup>, 53 million tonnes of municipal waste was sent to landfill in the EU in 2019. Therefore, the Applicant continues to consider that incineration plants in the rest of Europe would replace UK waste with waste from elsewhere.

UKWIN suggests four other counterfactuals which were not considered. This is primarily because Dorset Council did not request them. However, none of the counterfactuals are realistic in any event.

- 1. Biowaste being stabilised and sent to landfill. This is not being done in the UK. It was done in Lancashire for a short while, but this proved to be uneconomic.
- 2. Increased recycling. The Portland ERF will treat residual waste, so does not compete with recycling.

https://ec.europa.eu/eurostat/statisticsexplained/index.php?title=Municipal\_waste\_statistics#Municipal\_waste\_treatment, accessed 8 June 2021.

- 3. An alternative plant equipped with carbon capture. This is because there are no such plants operational or planned and any incentive regimes which might lead to CCS would apply equally to the Portland ERF.
- 4. UK plants which operate as combined heat and power (CHP). This is because none of the UK plants which are in range of Dorset's waste are equipped with CHP.

#### 5 CCGT as the Counter-factual

In paragraphs 88-108, UKWIN asserts that it is not appropriate to use CCGT as the counterfactual electricity source. The Applicant considers that the reasons for this choice are set out in section 3.1.3.1 of the Carbon Assessment and that almost all of UKWIN's points are already addressed therein. The Applicant continues to consider that CCGT is the correct counterfactual. For completeness, however, the Applicant has presented the results using the long term marginal emissions factor for 2024, the likely opening year, in the revised Carbon Assessment submitted with the ES Addendum.

However, the Applicant notes one further point. UKWIN asks for proof that EfW plants are obtaining capacity market contracts. The capacity market auction results are available from https://www.emrdeliverybody.com. As an example, EfW plants secured 74 MW of capacity (4.5%) in the T1 Delivery Year 2021/22 auction and 629 MW of capacity (5%) in the T4 Delivery Year 2024/5 auction, both conducted in March 2021.

### 6 Carbon Offsetting

In paragraphs 109-118, UKWIN casts doubt on the Applicant's commitment to carbon neutrality. It is difficult to see why. In paragraph 5.53 of the ES, the Applicant commits to agreeing a carbon assessment methodology with the local planning authority and then, if necessary, using verified carbon offsets to ensure that the process emissions are net zero over the lifetime of the plant. This commitment is expanded in paragraphs 6.302 to 6.313 of the planning statement.

The Applicant makes two primary responses to UKWIN's criticisms:

- 1. UKWIN disputes the appropriate baseline and notes that the methodology has not been stated. This is because the Applicant has committed to agreeing this with the local planning authority, which can be enforced via a planning condition.
- 2. UKWIN disputes the validity of carbon offsetting. While rejecting this criticism, the Applicant can only restate paragraph 6.310 of the planning statement:

"Objectors may question the validity of carbon off-setting and suggest that such proposals do not actually deliver on achieving carbon neutrality, or simply represent a statistical exercise. Such criticisms do not apply to this application because the applicant is prepared to back up its net-zero commitment by entering into a legal agreement with Dorset Council to ensure that the proposed ERF does achieve carbon neutrality. Whilst the precise measures to be applied have yet to be determined, carbon eutrality will be achieved through supporting a number of projects which may include those mentioned above, or sequestration through tree planting or re-wilding off-site or otherwise the use of verified carbon credits such as those marketed as Gold standard carbon credits by retail off-setters, or through supporting local community scale energy efficiency measures." 3. UKWIN states "it is not surprising that the applicant is not arguing that any weight should be given to their proposed measures for 'achieving carbon neutrality' within the planning balance." Nothing could be further from the truth and it is not clear why UKWIN chooses to mis-represent the Applicant's position. The Applicant states, in paragraph 6.313 of the planning statement (our emphasis):

"Given that the applicant is committed to funding additional carbon off-setting measures in each year that the ERF reduces GHG emissions (compared to baseline), and in each year that the ERF increases GHG emissions (compared to the baseline) will compensate for this by purchasing carbon offsets, the proposed plant will reduce GHG emissions over its lifetime and will achieve carbon neutrality, or better in every operating year. **This should be afforded great positive weight in the planning balance**."

### 7 Conclusions

UKWIN's conclusions depend on their earlier arguments, which the Applicant does not accept. Hence, the Applicant rejects UKWIN's conclusions in their entirety.



# Appendices

## A - Extract from Defra Report

Section 6.3 of Energy recover for residual waste: A carbon-based modelling approach, February 2014.
	Minimum lifetime biogenic content required %						
Plant	Existing	Existing	Existing	Existing			
efficiency	plant	plant	plant	plant	New plant	New plant	New plant
	1995-2020	2000-2025	2005-2030	2010-2035	2015-2040	2020-2045	2025-2050
30%	40.19	42.46	45.98	50.31	54.8	58.93	62.39
25%	43.47	45.51	48.63	52.46	56.44	60.08	63.12
20%	46.71	48.54	51.26	54.59	58.06	61.22	63.85
15%	49.93	51.53	53.87	56.71	59.68	62.35	64.57

## Table 20. Central methane scenario (60% initial capture) minimum lifetime biogenic content required

- 170. Cells shaded green indicate where the lifetime biogenic content required is less than the 50% currently used for deeming of Renewables Obligation Certificates (ROCs). Orange indicates where the content falls in the 60-68% range currently considered likely for mixed municipal waste. This indicates that for the central set of assumptions all plants are viable for municipal waste with a biogenic content at the top end of the commonly used range. As might be expected the low methane scenario required higher biogenic content than the central scenario for a given plant while conversely the high methane scenario required lower biogenic content.
- 171. Once the plant reaches the end of its 25 year life it needs to still be providing a carbon benefit for that life to be extended. The minimum biogenic content to extend a plant's lifetime to a given year is shown in the table below. Higher biogenic content is required to justify extending a plant's lifetime beyond the initial 25 years under this set of assumptions.

 
 Table 21. Central methane scenario (60% initial capture) Minimum biogenic content required to extend plant life beyond initial 25yr lifetime

	Minimum biogenic content required to extend plant lifetime beyond initial 25 year period %						
Plant	Existing	Existing	Existing	Existing			
efficiency	plant	plant	plant	plant	New plant	New plant	New plant
	1995-2020	2000-2025	2005-2030	2010-2035	2015-2040	2020-2045	2025-2050
30%	47.12	52.86	59.67	61.93	64.53	66.48	67.61
25%	49.77	54.84	60.63	62.61	65.03	66.77	67.85
20%	52.4	56.8	61.59	63.29	65.53	67.06	68.09
15%	55.01	58.75	62.55	63.97	66.02	67.34	68.33

## 6.3. Treatment of biogenic CO<sub>2</sub>

- 172. So far this analysis has ignored biogenic CO<sub>2</sub> emissions based on the assumption that it is short cycle and therefore has no net global warming impact. Impacts from factors such as changes in land use to grow the original plants are accounted for in overall carbon inventories elsewhere and are conventionally not considered as part of waste management or energy generation.
- 173. However, the model assumes that not all of the biogenic material decomposes in landfill but it is all converted to CO<sub>2</sub> in energy from waste. Landfill therefore acts as a partial carbon sink for the biogenic carbon. This is a potential additional benefit for landfill over energy from waste.
- 174. There are two ways to account for this additional effect:

- Estimate the amount of biogenic carbon sequestered and include the CO<sub>2</sub> produced from the same amount of carbon in the EfW side of the model (or subtract it from the landfill side)
- Include all carbon emissions, both biogenic and fossil on both sides of the model
- 175. While both approaches would address the issue of sequestered biogenic carbon the first would potentially be the better solution as it would avoid double counting carbon with other inventories.
- 176. Both approaches were examined in the model using the baseline set of assumptions (equivalent to the high capture low methane scenario) and the results are shown in Chart 15 below.
- Chart 15. Net efficiency of EfW plant required with different biogenic content of waste considering EfW emissions of: only fossil carbon (solid line), fossil and potentially sequesterable biogenic carbon (dotted line) and all carbon (dashed line)



- 177. It can be seen from Chart 15 that both approaches deliver a very similar change with, as expected, EfW becoming more disfavoured relative to landfill with the greatest change at high biogenic content of the waste. Taking into account sequestered biogenic carbon in landfill will require greater EfW efficiency and/or biogenic content.
- 178. The similarity between the two approaches is unsurprising as biogenic carbon which is not sequestered in landfill or converted to methane becomes CO<sub>2</sub>, as it would in EfW, so for that aspect the two sides of the model cancel out. The slight difference is due to the need for EfW to compensate for the CO<sub>2</sub> offset by electricity generation

from landfill gas when all emissions are considered. The small difference indicates how relatively small a contribution this energy makes to the overall balance. Given this similarity it may be better to consider only the sequestered biogenic C to avoid double counting with other inventories.

179. A range of different values exist in the literature for the amount of biogenic carbon that is sequestered in landfill. The baseline assumptions used in this model result in a very high level of sequestration, around 53% for the baseline composition. The outcome will be sensitive to the level of sequestration in two ways. Reducing the level of sequestration will require less biogenic carbon to be included in the EfW side of the model and will also result in more methane being emitted from the landfill side. Both factors will favour EfW over landfill. To examine the sensitivity of the model to changes in sequestration the baseline proportion of decomposable carbon in each waste type was increased by 50%. This changed the overall proportion of sequestered biogenic carbon from 53% to 29.5%. The values used are summarised in Table 22 below.

 Table 22. Changes in modelled sequestration levels for each component by increasing the proportion of biogenic C considered sequesterable

	High		
	sequestration %	Reduced	
Material	(model baseline)	sequestration %	
Mixed Paper and Card	50.63	25.94	
Plastics			
Textiles (and footwear)	66.65	49.98	
Miscellaneous combustibles	53.21	29.82	
Miscellaneous non-combustibles	100	100	
Food	39.36	9.04	
Garden	48.71	23.06	
Soil and other organic waste	96.43	94.64	
Glass	100	100	
Metals, White Goods and Other Non-biodeg			
Products			
Non-organic fines			
Wood	71.52	57.28	
Sanitary / disposable nappies	71.33	57	
Total	53.00	29.50	

180. By taking this approach materials which already have a high proportion of decomposable carbon are most greatly affected, i.e. Food, Paper and garden waste.

181. The impact of these changes on the model outputs is shown in Chart 16 below.





- 182. As noted above, changing the level of sequestration impacts on both the amount of biogenic carbon that needs to be counted on the EfW side of the model and the amount of methane emitted on the landfill side. As a consequence changing the sequestration level impacts not only when considering both fossil and sequestered carbon but also when considering fossil carbon alone.
- 183. In the example above for the baseline composition (61% biogenic) reducing the amount of sequestration of biogenic carbon from 50% to 30% results in a drop of 10% in the efficiency required if just considering fossil carbon and 20% if considering both fossil and sequestered biogenic carbon.
- 184. There is an additional complicating factor regarding the assumptions around sequestration levels. The proportion of landfill gas captured is difficult to measure directly so assumed levels have previously been derived from a combination of measurement of the amount of landfill gas captured as a proportion of the amount modelled as being produced. However, the modelling for this also contains assumptions on sequestration, Therefore any lowering in the sequestration assumptions will also inherently reduce the assumed level of landfill gas capture. This interaction has not been captured in the above analysis. As a result the scenarios outlined above will be particularly sensitive to sequestration levels with any drop in assumed sequestration significantly favouring EfW over landfill. Given all of these interactions there is a high degree of uncertainty and further work is required.