

NORTH FALLS

Offshore Wind Farm

CONSULTATION REPORT **APPENDIX F.14** PART 2

Document Reference: 4.1.3.2

Volume: 4

APFP Regulation: 5(2)(q)

Date: July 2024

Revision: O

NorthFallsOffshore.com



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Project Reference: EN010119

Project	North Falls Offshore Wind Farm
Document Title	Consultation Report Appendix F.14 (Part 2)
Document Reference	4.1.3.2
APFP Regulation	5(2)(q)
Supplier	Camargue Group Limited
Supplier Document ID	CAMFPT20724

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Revision	Date	Status/Reason for Issue	Originator	Checked	Approved
0	July 2024	Submission	Camargue	NFOW	NFOW



F Appendices (continued)

F.14 Stage 3 (statutory) consultation feedback and Applicant's regard (section 42)

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Offshore Wind Farm

APPENDIX F F.14

Stage 3 (statutory) consultation feedback and Applicant's regard (section 42)

Consultee reference	Summary of comments	Code/ theme	Code/ theme	Applicant's response	Project change (Y / N)
NFOWFS3_001_001_130 623	Further to the request for feedback for the consultation on the Northfalls Wind Farm, our council met on the 8th June and agreed that their response to this consultation would be in the same vein as the feedback provided to the Five Estuaries consultation. I have copied this feedback below.	Introduction		Noted.	N
NFOWFS3_001_002_130 623	In addition to the feedback provided below, if the Minister is mindful of approving the National Grid East Anglia Green Proposal, our Members would like strong consideration given to making the proposed temporary road a permanent road, as this would aid congestion issues that have been long seen in the village of Thorpe le Soken but in having a permanent bypass road, the issues would be somewhat if not completely alleviated. Such disruption that this scheme would cause has to benefit our residents in some way. Kindly please ensure this request is included. This Council objects to the above project for several reasons.	Traffic and Transport		The haul road for North Falls is temporary and would be removed upon completion of construction.	N
NFOWFS3_001_003_130 623	Why does it not make landfall via Aldebrough and the Atomic Power Stations? The volume of Electricity can only be handled by a new power line. The scheme from the National Grid is called East Anglia Green. From Power Station to switch using overhead cables, means a loss of 40% of electricity generated.	Infrastructure and Other Users		Noted. The onshore Project area and onshore substation works area have been defined following an extensive site selection process, which has sought to take account of landscape and visual, other environmental, engineering, planning and land requirements to seek to identify the project location. The site selection process is described in detail in Chapter 4 Site Selection and Assessment of Alternatives (Volume I) (document reference 3.1.6) of the ES.	N

NFOWFS3_001_004_130 623	An alternative scheme to use undersea cabling has been asked for by not only the Tendring District Council, but also The County Councils of Norfolk, Suffolk and Essex, who are all opposed to the overhead Pylons.	Site Selection and Assessment of Alternatives		Noted.	N
NFOWFS3_001_005_130 623	The Government has made a tentative submission for all wetland sites on the east coast, the application was submitted in July 22 by the RSPB, WWT(Wetlands Wildlife Trust) and NT(National Trust), to UNESCO for consideration as a World Heritage Site. The Hamford Backwaters are considered to be the 2nd most important site in Europe for over wintering birds. It is well known that pylons and overhead cables are not compatible with migrating birds.	Onshore Ornithology		The importance of the onshore ornithology study area for breeding and non-breeding bird assemblages has been carefully considered in the Project design and assessment. A range of mitigation measures is proposed to minimise the risk to species of key conservation concern, including migratory species which utilise wetlands that form part of the SPA/Ramsar/SSSI network in southeast England, including Hamford Water. No pylons or overhead cables are included within the design envelope for North Falls. Main migratory locations are designated sites and are fully assessed in the HRA and in Chapter 24 Onshore Ornithology (Volume I) (document reference 3.1.26) of the ES.	Y
NFOWFS3_001_006_130 623	We do understand that Wind Farms must connect, where they are told to by National Grid. Both 5 estuaries and North Falls have applied for up to £100m from an Early Opportunities Co-Ordinating Scheme, so that they can join up to the National Grid. This is Government money. Yet we, who are affected are offered nothing. If an alternative scheme is to be used then there is no need to go across our Parish bounds.	Site Selection and Assessment of Alternatives		Noted.	Z
NFOWFS3_001_007_130 623	This Consultation will be one of 2 we will respond to. As another very similar scheme from Five Estuaries is proposing a very similar route to the proposed sub station, where the 400Kva will be able to access the power lines for London. These schemes will have no positive	Site Selection and Assessment of Alternatives	Land Use and Agriculture	Noted.	N

	effect for this Council. The land owners that the cabling will travel under and across will receive some form of compensation. What is in this scheme for FWTC? Where is the planning gain? We are already a Green Parish. The Gunflete Wind Farm provides enough energy for all of Tendring and up to a 3rd of Colchester. We get no gain from this scheme. that comes ashore at Holland Haven and then underground to the power grid, where its 132 Kva can be used locally.			
NFOWFS3_001_008	Planning gains: The PROW and Cycle Route 150 from Holland Haven to Frinton beneath the Sea Wall be made good and brought up to an acceptable standard to be adopted by Essex Highways.	Tourism and Recreation	Noted.	N
NFOWFS3_001_009	A small charge be placed upon the electricity passing through the Parish per, say .01p, KWH generated.	Socio-economics	Noted.	N
NFOWFS3_001_010	A Community based scheme: North Falls create a local Electricity supply company for the FWTC area. It will sell electricity to the Residents at a substantial discount to the average tariff available locally.	Socio-economics	Noted.	N
NFOWFS3_001_011	Discuss with the Environment Agency compensation for affecting the integrity of the seawall, so that they will hold the line for the seawall from Holland Haven to Frinton-on-Sea for epoch 3 of the Shoreline Management Plan	Infrastructure and Other Users	Noted.	N

NFOWFS3_001_012	National Grid's East Anglia Green Project, proposes an energy transmission route consisting of the construction of 180km of 50m tall pylons carrying 400kV cables through the entire central length of our County (as well as through our neighbours, Norfolk and Suffolk), save for a section of undergrounding at Dedham Vale. This Council has already expressed declared a climate emergency and an ambition to be net zero by 2050 so plans for renewable wind farms off the East Anglian coast are welcomed.	Climate Change	Need for the Project	Noted.	N
NFOWFS3_001_013	However, this Council has serious concerns about the nature and short-period of consultation, the route, and how carbon-heavy the proposed scheme of overhead pylons are which rely on 100 year-old technology.	Technical Consultation	Site Selection and Assessment of Alternatives	Noted.	N
NFOWFS3_001_014	Furthermore, this Council believes that: There has been insufficient consideration of alternative approaches which would allow for the required infrastructure but without the sheer scale of the damage to the environment, landscape and the difficulties of this project going ahead, all at the same time as multiple large-scale infrastructure projects which have the potential to cause major disruption across the East of England.	Site Selection and Assessment of Alternatives	Landscape and Visual Impact Assessment (LVIA)	Noted.	N
NFOWFS3_001_015	New offshore generated electricity should be transmitted offshore, which is why an offshore grid is needed. This is firmly in the interests of both residents and business, offshore windfarms themselves and wider interests e.g. Freeport East. Such an alternative approach would future-proof the network and could avoid	Site Selection and Assessment of Alternatives	Infrastructure and Other Users	Noted.	N

	all the physical constraints of an above or below-ground solution, retain ease of access for ongoing maintenance and provide a more direct point of connection for any current or future off-shore wind farms.				
NFOWFS3_001_016	This pylon infrastructure is neither wanted nor needed considering the viable option of undersea power cables. These cables could transport power to where it is needed, helping future proof energy supplies and boost energy security, without adversely impacting on residents, businesses and communities across Essex.	Site Selection and Assessment of Alternatives		Noted.	Z
NFOWFS3_001_017	This Council therefore calls upon: Both the Government and National Grid to refocus the East Anglia Green Proposals on an offshore solution and engage in meaningful discussions with Essex and its neighbouring County Councils to achieve this.	Site Selection and Assessment of Alternatives	Technical Consultation	The Applicant has cooperated with the Department of Energy Security and Net Zero to explore grid connection options, as part of the Offshore Transmission Network Review (OTNR). Additionally, the Applicant has applied to the Offshore Coordination Support Scheme (OCSS) in consortium with NGET and Five Estuaries for an offshore connection to Sea Link, a marine cable between Suffolk and Kent proposed by NGET as part of its Great Grid Upgrade. The Applicant continues to engage with government, Office of Gas and Electricity Markets (Ofgem) and other developers to explore the potential options. More information can be found in Chapter 5, Project Description, of the ES (document reference 3.1.7)	N
NFOWFS3_001_018	National Grid to: Provide this Council with all the information asked for in our response of 16 June by 30 August 2022.	Technical Consultation		Noted.	N

	Make publicly available full, open and transparent information on all options, including offshore and undergrounding, to enable evaluation and comparisons to be made by Essex residents, businesses, Councils and other stakeholders. This information to be publicly available for a period of at least 6 months before any Development Control Order (DCO) application is made." Councillor Stock OBE formally moved the Motion, which was then seconded by Councillor G V Guglielmi.			
NFOWFS3_002_001_190 623	Given the potential landscape and visual impact of the proposed development, it is recommended a Landscape & Visual impact Assessment be submitted as part of any formal submission (a requirement of the EIA). This in order to guide the design proposals enough to help ensure the development does not have an adverse impact on the administration area of CCC. Any such Appraisal should fully comply with the relevant Landscape Institute's Guidelines for Landscape & Visual Impact Assessment (3rd edition) and any relevant Technical Guidance Notes (including TIN 06/19).	Landscape and Visual Impact Assessment (LVIA)	Noted.	N
NFOWFS3_002_002_190 623	Initial assessment of the proposal @ Development - North Falls Offshore Wind Farm would indicate that an additional viewpoint should be considered from West Mersea foreshore on Mersea Island, where the southern tip of the development may be visible.	Seascape, Landscape and Visual Assessment (SLVIA)	The ZTV (refer to ES Figure 29.1.2, Document Reference: 3.2.25) indicates some theoretical visibility from Mersea Island. However, this area is on the edge of the 60km study area and significant visual effects at this viewing distance are unlikely. The assessment includes an assessment viewpoint from Clacton on Sea (VP15) which provides a similar viewing angle (and is closer). Refer to Table 29.36 in Section 29.6.3 (Document Reference 3.2.25)	N

NFOWFS3_003_001_240 523	Dear Mr. Crawford, Thank you for the opportunity to comment on the proposed development at subject. We note the contents and the issues that will be addressed and wish to clarify several matters that are covered in the report. Aviation Obstacle Notification The CAA requires notification of a change to aviation obstacles if it or they are 100 metres or more above sea level, in accordance with Article 225A of the Air Navigation Order (2016) Additional consideration of the aviation obstacle environment may be required during the initial build phase and the temporary use of cranes that may extend above a height of 100 metres or in the case of pre-built turbines being towed from shore to final generating position.	Aviation and Radar	The requirements of Article 225A are noted and outlined in Section 17.3.3.1 of ES Chapter 17 (Document Reference 3.1.19). Consideration of the notification of temporary cranes and the towing of WTG components during construction is now included in the embedded mitigation outlined in Section 17.3.3.	N
NFOWFS3_003_002_240 523	Aeronautical Obstacle Lighting and Marking A Lighting Management Plan (LMP) must be agreed and implemented in consultation with the CAA in order for the UK to meet its international obligations under the Chicago Convention. The CAA uses requirements set out in Article 223 of the Air Navigation Order (2016) as the basis for its requirements.	Landscape and Visual Impact Assessment (LVIA)	The requirement for an LMP is now included as embedded mitigation in Section 17.3.3.2 of ES Chapter 17 (Aviation and Radar). Lighting would be in accordance with Article 223 of the Air Navigation Order (2016).	Y
NFOWFS3_003_003_240 523	Instrument Flight Procedures An Instrument Flight Procedure (IFP) is a set of instructions regarding navigation around aerodromes. Within the design of IFPs, rules are set out regarding obstacle clearance, to ensure the necessary safeguarding. The protected areas for IFPs are complex as it is necessary to consider where the obstacle is in relation to multiple stages of	Aviation and Radar	An assessment of Southend Airport's IFPs was undertaken, as presented in Appendix 17.2 Southend Airport Instrument Flight Procedure Assessment (Volume III) (document reference 3.3.19), which shows that North Falls WTGs would have no impact on existing published IFPs. There are also two Required Navigation Performance IFPs currently with the CAA awaiting approval. NATS have confirmed that North Falls WTGs would have no impact on these IFPs (email 27 January 2023).	N

	multiple flight paths for multiple types of aircraft. This may be relevant for windfarms built within 30 nautical miles (~55km) of an aerodrome or pre-built turbines being towed from shore to final generating position. Continued (2 of 2 pages)			
NFOWFS3_003_004_240 523	Impacts on civil aviation monitoring systems Wind turbines located within the line-of-sight of surveillance systems (in particular, primary radar) can cause clutter and interference and can result in performance degradation. Radar line-of-sight analysis is theoretical; operationally there are other factors such as signal refraction, diffraction, attenuation and anomalous propagation within a given radar environment that can influence the probability of an operational wind turbine being detected. The CAA ensures that air navigation service providers undertake appropriate safeguarding activities in respect of their systems and equipment used for the provision of services, that changes to the operating environment are fully considered within their Safety Management Systems and that the operational systems and equipment are functional and being used safely. We recommend that engagement with all potentially affected aviation stakeholders is undertaken and appropriate mitigation schemes developed.	Aviation and Radar	Noted.	N

NFOWFS3_003_005_240	Helicopter Operations	Aviation and		erations are discussed in Section	N
523	This covers two aspects:	Radar	17.5.4 and ass		
	(1) potential helicopter support for		Sections 17.6.	1.2, 17.6.1.3, 17.6.2.2, 17.6.2.3,	
	operations and maintenance of the			7.6.3.3 of ES Chapter 17 (Aviation	
	wind farm itself; and		and Radar).		
	(2) impact on offshore helicopter				
	operations to existing platforms				
	and installations				
	Requirements for winching				
	operations should be discussed				
	with appropriate helicopter				
	operators well in advance. Where				
	such operations are undertaken,				
	additional platform design criteria,				
	lighting on the wind turbines,				
	obstacle clearance and marking of				
	the blades may be required. This				
	is detailed in CAA Publication				
	(CAP) 437 – Standards for				
	Offshore Helicopter Landing areas.				
	All offshore helicopters operate				
	with limited icing clearances which				
	means that they must be able to				
	descend to warmer air near the				
	sea surface at any point on the				
	route. Operation through a wind				
	farm corridor is highly unlikely and				
	it might be that they would have to				
	route around the wind farm. This				
	may impact fuel burn and load				
	capacity. In addition, where wind				
	turbines are located in the vicinity				
	of existing platforms and				
	installations that offshore				
	helicopters operate to/from,				
	consideration must be given to				
	approach and take off, including in				
	abnormal situations (e.g. one				
	engine inoperative). Engagement				
	with operators and duty holders as				
	appropriate should be undertaken.				
	I hope that this is helpful input at				
	this stage. Please do not hesitate				
	to contact us if you require any				
	further advice.				

NFOWFS3_004_001_070	Dear Mr. Crawford,	Onshore Ecology	Land Use and	Noted	N
623	Deal IVII. Clawiolu,	Offshore Ecology	Agriculture	Noted.	IN
020	Thank you for consulting the		, ignoditaro		
	Forestry Commission regarding				
	this application. As a Non-				
	Ministerial Government				
	Department, the Forestry				
	Commission provide no opinion				
	supporting or objecting to an				
	application. We provide advice on				
	the potential impact that the				
	proposed development could have				
	on trees and woodland including				
	ancient woodland. The links below				
	are to the Government guidance				
	on the protection of ancient				
	woodlands and veteran trees etc.				
	Having reviewed the North Falls				
	Offshore Wind Farm documents it				
	is clear that there are no ancient				
	woodlands ancient or veteran				
	trees at the proposed site of				
	landfall, none along the route of				
	the cabling, and none at the				
	proposed site of the substation.				
	Therefore the Forestry				
	Commission has no comment to				
	make.				
	4 Austratura diameta austrat				
	Ancient woodlands, ancient trees and veteran trees are				
	irreplaceable habitats. Paragraph				
	180(c) of the NPPF sets out that				
	development resulting in the loss				
	or deterioration of irreplaceable				
	habitats should be refused unless				
	there are wholly exceptional				
	reasons, and a suitable				
	compensation strategy exists. In				
	considering the impacts of the				
	development on Ancient				
	Woodland, Ancient and Veteran				
	trees, the planning authority				
	should consider direct and indirect				
	impacts resulting from both				
	construction and operational phases.				
	pridaca.				

	Please refer to Natural England and Forestry Commission joint Standing Advice for Ancient Woodland and Ancient and Veteran Trees, updated in January 2022. The Standing Advice can be a material consideration for planning decisions, and contains advice and guidance on assessing the effects of development, and how to avoid and mitigate impacts. It also includes an Assessment Guide which can help planners assess the impact of the proposed development on ancient woodland or ancient and veteran trees in line with the NPPF. The Ancient Tree Inventory is maintained by the Woodland Trust and is accessible at			
NFOWFS3_005_001_230 523	Dear Mr Crawford Section 42 Planning Act 2008: Statutory Consultation – North Falls Offshore Wind Farm Thank you for your letter of the 11 May 2023 regarding the proposed North Falls Offshore Wind Farm. HSE's land use planning advice Will the proposed development fall within any of HSE's consultation distances? According to HSE's records, the proposed DCO application boundary for this Nationally Significant Infrastructure Project is not within the consultation zones of any major accident hazard sites	Land Use and Agriculture	Although the boundary of the Project has changed since PEIR (see Chapter 5 Project Description (Volume I) (document reference 3.1.7), it has reduced in size within the limits of the Scoping boundary, therefore this advice is still relevant. As this comment applies to the variations to the PEIR boundary which were subject to targeted consultation, along with the comments made in HES's PEIR response above, this is confirmation that the DCO application boundary (the onshore project area) is not within the HSE's land-use planning zones.	N

	or major accident hazard pipelines. This is based on the project area 'redline' in drawing 'Onshore Project Area' PB9244-RHD-ZZ-ON-DR-GS-0193 Rev 02 dated 24/04/2023 within Volume II of Chapter 1 of the Preliminary Environmental Information Report (PEIR). HSE's Land Use Planning advice is dependent on the location of areas where people may be present within HSE's land-use planning zones. As the project area 'redline' is not within any of HSE's land-use planning zones, under HSE's existing policy for providing land-use planning advice, HSE would not advise against the development. HSE's advice in response to a subsequent planning application may differ should HSE's policy or the scope of the development change by the time the Development Consent Order application is submitted.				
NFOWFS3_005_002_230 523	Would Hazardous Substance Consent be needed? Based on the Preliminary Environmental Information Report (PEIR), it is unlikely that hazardous substance consent (HSC) will be required. Hazardous substances planning consent is required to store or use any of the Categories of Substances or Named Hazardous Substances set out in Schedule 1 of The Planning (Hazardous Substances) Regulations 2015 as amended, if those hazardous substances will be present on, over or under the land at or above the controlled quantities. There is an addition rule in the Schedule for below-threshold substances. Further information on HSC should be sought from the relevant	Ground Conditions and Contamination	Human Health	Hazardous substances above set threshold quantities are not expected to be part of the Project design, and therefore hazardous substances consent is not anticipated.	N

	Hazardous Substances Authority, if required or if changes to the scheme are made. 2				
NFOWFS3_005_003_230 523	Consideration of Risk Assessments Regulation 5(4) of the Infrastructure Planning (Environmental Impact Assessment) Regulations 2017 requires the assessment of significant effects to include, where relevant, the expected significant effects arising from the proposed development's vulnerability to major accidents. HSE's role in NSIPs is summarised in Advice Note 11 'working with public bodies in the infrastructure planning process' Annex G on the Planning Inspectorate's website [Advice notes National Infrastructure Planning (planninginspectorate.gov.uk)] - Annex G – The Health and Safety Executive. This document includes consideration of risk assessments under the heading "Risk assessments".	Human Health		Chapter 28 of the ES (Human Health) provides an assessment of likely significant effects arising from the Project's vulnerability to major accidents. This concludes that the risk of 'major accidents and/or disasters' associated with any aspect of the Project, during the construction, operation and decommissioning phases is negligible.	N
NFOWFS3_005_004_230 523	Explosives sites HSE has no comment to make as there are no licensed explosives sites in the vicinity.	Human Health		Noted.	N
NFOWFS3_005_005_230 523	Electrical Safety No comment from a planning perspective. During this time, please send any further communication on this project directly to the HSE's designated e-mail account for NSIP applications at	Infrastructure and Other Users	Human Health	Noted.	N

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	nsip.applications@hse.gov.uk . We are currently unable to accept hard copies, as our offices have limited access.			
NFOWFS3_006_001_140 723	Dear Sir/Madam Application No: 231207 Registered Date: 11 May 2023 Proposal: CONSULTATION OUTSIDE BOROUGH - Offshore wind farm project Location: southern North Sea, Frinton on Sea, Holland on Sea, Essex, CO15 6NG I'm writing in relation to your consultation for the Five Estuaries Offshore Wind Farm Project. Based on the information available, it would appear that the impact on the City of Colchester is limited and we therefore have no comments to make at this stage. We will reserve the right to comment further once the project has moved forward and/or the impact on the City of Colchester changes.	N/A	Noted.	N
NFOWFS3_007_001_140 723	Dear Mr. Harper NORTH FALLS OFFSHORE WIND FARM: STATUTORY CONSULTATION SECTION 42 OF THE PLANNING ACT 2008 AND/OR REGULATION 13 OF THE INFRASTRUCTURE PLANNING (ENVIRONMENTAL IMPACT ASSESSMENT) REGULATIONS 2017 Thank you for your consulting with us on the Preliminary Environmental Impact Report (PEIR). Please see our detailed comments below which principally relate to the water environment. I would particularly like to raise your attention to concerns about potential impacts concerning flood risk to third parties, crossing flood	Water Resources and Flood Risk	Numerical values for defining changes in flood risk magnitude, presented in the Design Manual for Roads and Bridges, have been added to Table 217 of ES Chapter 21 (Water Resources and Flood Risk).	N

	defences, waterbody crossings and Water Framework Assessment. Chapter 21: Water Resources and Flood Risk Flood Risk Assessment Table 21.7 This table defines the magnitude for a flood risk receptor. The flood risk definitions are rather vague and so open to rather different interpretations of what is considered as "minor, moderate and major" change to flood risk. From a flood risk perspective, we would recommend defining values to an amount of flood risk change as being negligible, minor, moderate or major. You may find Table 3.71 (Estimating the magnitude of an impact on an attribute) from the Design Manual for Roads and Bridges (LA113 Road drainage and the water environment Revision 1, dated March 2020) useful in helping define values to an amount of flood risk change. Dependant on the values defined in Table 21.7 we would need to reassess the suitability of the parameters of			
NFOWFS3_007_002_140 723	Table 21.8 and Table 21.9. Crossing method and impacts on flood risk Paragraphs 97 to 99 identify that all Main River and most ordinary watercourse crossings will be crossed using Trenchless techniques. We would recommend that Trenchless techniques are used for ordinary watercourses with associated Fluvial / Tidal Flood Zone 3. If trenched techniques are used on ordinary watercourses with associated Fluvial / Tidal Flood Zone 3, the Environment Agency would expect the Flood Risk Assessment to assess the	Water Resources and Flood Risk	Flood risk from all sources, including trenched crossings during construction, is assessed in Appendix 21.3 Flood Risk Assessment (document reference 3.3.29). The impact of trenched crossings in each water body catchment is assessed in Section 21.6 of ES Chapter 21 (Water Resources and Flood Risk).	N

	flood risk impacts during construction for the Environment Agency's consideration before or at the examination stage of the Development Consent Order (DCO). The reason for this is that impacts on third parties should be presented to the Examining Authority for consideration to inform their role of assessing the principle of development and the acceptability of associated risks. If the DCO application were made without either a flood risk assessment and/ or suitable mitigation for third party properties our position would be objection.			
NFOWFS3_007_003_723		Water Resources and Flood Risk	Updated evacuation measures including for fluvial flood risk are described in Appendix 21.3 Flood Risk Assessment (document reference 3.3.29). Flood risk from all sources, including trenched crossings during construction, is also assessed in Appendix 21.3 Flood Risk Assessment (document reference 3.3.29). The impact of trenched crossings in each water body catchment is assessed in Section 2 1.6 of ES Chapter 21 (Water Resources and Flood Risk).	N

NFOWFS3_007_004_140 723	Appendix 21.2 Water Framework Directive Compliance Assessment Table 1 This table identifies waterbodies screened in or out of the assessment. Impacts on Hamford Water are screened out. This is justified on the basis that the Main River crossing upstream will be crossed using trenchless crossing techniques. However, we have not been able to identify detailed assessment of the technical suitability of trenchless crossings for each crossing location. It may be that at the detailed design stage there will reasons why trenched techniques should be used. We therefore think it prudent that Hamford Water is scoped in.	Water Resources and Flood Risk		The main river that drains to Hamford Water is now outside of the onshore Project area and does not need to be crossed. As a result, impacts on Hamford Water are not expected. An updated screening assessment is included in Appendix 21.2 Water Environment Regulations Compliance Assessment (document reference 3.3.28).	N
NFOWFS3_007_005_140 723	Chapter 21. Table 21.10 We are pleased to note the commitment to develop an appropriate bentonite breakout plan in this table and the supporting comments in section 21.6.1.3.	Water Resources and Flood Risk		Mitigating measures associated with bentonite breakout are described in Section 21.3.3 of ES Chapter (Water Resources and Flood Risk).	Y
NFOWFS3_007_006_140 723	Drawing PB9244-RHD-ZZ-LN-DR-GS-0239 All three landfall site locations shown in drawing PB9244-RHD-ZZ-LN-DR-GS-0239 would require passing under an existing tidal defence. Jaywick and Holland On Sea defences are currently maintained by the Environment Agency and depending on the micro siting of the proposed Dovercourt location it may also be maintained by the Environment Agency. At the detailed design stage the Applicant must provide evidence/data to prove the design will not affect the stability of the existing defence.	Water Resources and Flood Risk	Infrastructure and Other Users	The potential for impact is considered to be low given the depth of the drill (20m). A detailed assessment of drilling below the existing flood defences will be undertaken post-consent (i.e. at detailed design). Noted. Protective provisions for the benefit of the Environment Agency have been included within the draft DCO (document reference 6.1).	Y

NFOWFS3_007_007_140 723	Chapter 19: Ground Conditions and Contamination Paragraph 74 We agree that detailed ground investigations may be required post consent to determine the extent and source of any contamination. The range of contaminants tested should include those associated with the former land use.	Ground Conditions and Contamination	r F V	Ground investigations, and laboratory testing, will be designed with reference to historical land uses to ensure the potential contaminants of concern are included within the testing suite. More information can be found in ES Chapter 19 (Ground Conditions and Contamination).	N
NFOWFS3_007_008_140 723	Paragraph 97 In addition to the proposals in this paragraph, Hydrogeological Impact assessment (HIA) should be carried out for excavations that exceed 1meter.	Ground Conditions and Contamination		The requirement for the completion of Hydrogeological Risk Assessments will be undertaken where required prior to the commencement of the construction phase. Their need will be determined based on a high level assessment of the risk posed to the underlying water resource either from potential pollution or a disruption to the existing flow paths from either HDD crossings or shallow disturbance such as dewatering during the laying of the onshore cable route.	N
NFOWFS3_007_009_140 723	Appendix 19.1 Paragraph 63 - we agree with the proposed recommendations.	Ground Conditions and Contamination	1	Noted.	N

NFOWFS3_007_010_140 723	Potential effects during construction We also note that Chapter 21 Section 21.6.1 is relevant in respect of this subject area. A hydrogeological impact assessment should assist in determining potential effects during construction.	Ground Conditions and Contamination	Water Resources and Flood Risk	A hydrogeological risk assessment will be undertaken where earthworks / excavations are within 50m (or 250m dependent upon the volume abstracted) of private potable groundwater abstractions and pose a potential risk from either existing or potentially introduced contamination. Further hydrogeological risk assessments will be undertaken where earthworks / excavations are within influencing distance of abstractions whereby they may interrupt flow pathways due to dewatering or other associated activities. The risk assessment, which would be desk-based, follows a tiered approach with more detailed assessments carried out in areas considered to pose a potentially greater risk to groundwater. The hydrogeological risk assessment will meet the requirements of the Environment Agency's Approach to Groundwater Protection 2018 Framework and be completed post consent dependent on further design information. The need for hydrogeological risk assessment will be determined following detailed design based on the final proximity in relation water abstractions. Details regarding the hydrogeological risk assessment are set out in the OCoCP (Document Reference: 7.13), which is secured by DCO Requirement.	Y
NFOWFS3_007_011_140 723	Chapter 23: Onshore Ecology Table 23.48 We welcome the commitment to develop a plan to prevent the spread of invasive non-native species in the Code of Construction Practice.	Onshore Ecology	Project Description	Noted. Mitigation measures associated with trenched crossings, including the use of pumps, are listed in Section 21.3.3 of ES Chapter (Water Resources and Flood Risk). This includes a fish rescue and use of fish and eelfriendly filters.	N
NFOWFS3_007_012_140 723	Paragraph 429 We note the proposed enhancements and look forward to more details and evaluation. We suggest that enhancements could be extended to riparian locations by replacing lost gravel to restore benthic habitats, as well as varied and diverse tree/scrub planting to	Onshore Ecology		Riparian habitats are considered in this ES in Sections 23.5 and 23.6 of Chapter 23 (Onshore Ecology). BNG is addressed in the Biodiversity Net Gain Strategy (Document Reference 7.22).	N

			•		
	provide shading and riverbank habitat for mammals. We look forward in due course to a full biodiversity net gain plan showing net gain of at least 10%.				
NFOWFS3_007_013_140 723	Linked comment: Chapter 21: Table 21.3 Any temporary pumps used for over pumping will require screening to prevent the entrainment of eel, lamprey or other fish species. The Eel (England and Wales) Regulations came into force in 2010. Since 1 January 2015, under Part 4, Section 17, it has become an offence not to place an eel screen on any water diversion structure capable of abstracting more than 20 cubic metres in a 24-hour period, unless specifically exempted from the requirement by the Environment Agency. As part of a fish rescue, the fish should be re-located downstream.	Onshore Ecology	Water Resources and Flood Risk	Noted.	N
NFOWFS3_007_014_140 723	Environmental Permitting for watercourse crossings The proposed development involves watercourse crossings and a flood defence crossing which, will either require a Flood Risk Activity permit or exemption under the provisions of the Environmental Permitting (England and Wales) Regulations 2016 or, for the Applicant to apply through the DCO for disapplication of this legislation by the inclusion of an appropriate set of Protective Provisions. To date we are not aware of the Applicant's intentions in respect of this and would welcome early discussions. We will send under separate cover our standard wording for Protective Provisions the have been used in	Water Resources and Flood Risk		Noted.	N

recent DCO's which replicate the safeguards which the Environment Agency is granted through environmental permits and which we consider to be appropriate for this development. Guidance on Flood Risk Activity Permits can be found at: hiips://www.gov.uk/guidance/flood-riskactivities-environmental-permits. I trust that this information is of assistance.	

NFOWFS3_008_001_240	Dear Harper	N/A	Noted.	N
523	Your Reference Number:			
	004788663-01			
	Description of Development:			
	North Falls is a proposed offshore			
	wind farm located in the southern			
	North Sea,			
	approximately 20 kilometres from			
	the East Anglia coast at its nearest			
	point. An			
	offer has been accepted from			
	National Grid for an onshore grid			
	connection in			
	Tendring, North Essex,			
	approximately 20 kilometres from			
	its likely landfall location			
	for that connection option near			
	Frinton-on-Sea. North Falls is set			
	to support the			
	UK's target of 50GW of installed			
	offshore wind capacity by 2030.			
	The Project			
	comprises:			
	Up to 72 offshore wind turbine			
	generators			
	Up to two offshore substation			
	platforms			
	Platform interconnector cables			
	• Inter-array cables			
	Options for transmission			
	infrastructure including:			
	Option 1: Onshore electrical			
	connection at a National Grid			
	connection point within Tendring, Essex, with a project			
	alone onshore cable route and			
	onshore substation			
	infrastructure;			
	Option 2: Onshore electrical			
	connection at a National Grid			
	connection point within			
	Tendring, Essex, sharing all or part			
	of an onshore cable route with			
	separate			
	onshore export cables with			
	another project (such as Five			
	Estuaries) where			
	practicable, or			
	Option 3: Offshore electrical			

connection supplied by a third-		
party electricity network		
provider. Such a connection will		
notantially be identified through the		
potentially be identified through the		
Offshore		
Transmission Network Review		
(OTNR) process.		
Location: North Falls Offshore		
Wind Farm		
I refer to your consultation under		
Article 40/47 of the Development		
Article 16/17 of the Development		
Management Procedure (England)		
Order 2010. We		
thank you for the opportunity to		
provide our comments and these		
are set out below.		
OBSERVATIONS: The London		
Borough of Waltham Forest do not		
wish to make any comments on		
the application at		
this time.		

NFOWFS3_009_001_300 623 Dear Sir/Madam, Please be aware that any works within the Marine area require a licence from the Marine Management Organisation. It is down to the applicant themselves to take the necessary steps to ascertain whether their works will fall below the Mean High Water Springs mark. Response to your consultation The Marine Management Organisation (MMO) is a non-departmental public body responsible for the management of England's marine area on behalf of the UK government. The MMO's delivery functions are; marine planning, marine licensing, wildlife licensing and enforcement, marine protected area management, marine emergencies, fisheries management and issuing European grants. Marine Licensing Works activities taking place below the mean high water mark may require a marine licence in accordance with the Marine and Coastal Access Act (MCAA) 2009. Such activities include the construction, alteration or improvement of any works, dredging, or a deposit or removal of a substance or object below the mean high water springs mark or in any tidal river to the extent of the tidal influence. Applicants should be directed to the MMO's online portal to register for an application for marine	ative Intertidal Ecology	N N
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https://www.gov.uk/guidance/make			
-a-marine-licence-application			
-a-manne-ilcence-application			
You can also apply to the MMO for			
consent under the Electricity Act			
4000 (author) the Electricity Act			
1989 (as amended) for offshore			
generating stations between 1 and			
100 megawatts in English waters.			
100 megawatto in English waters.			
The MMO is also the authority			
responsible for processing and			
determining Harbour Orders in			
determining harbour Orders in			
England, together with granting			
consent under various local Acts			
and orders regarding harbours.			
and orders regarding narbodis.			

NFOWFS3_009_002_300 623	A wildlife licence is also required for activities that that would affect a UK or European protected marine species. The MMO is a signatory to the coastal concordat and operates in accordance with its principles. Should the activities subject to planning permission meet the above criteria then the applicant should be directed to the follow pages: check if you need a marine licence and asked to quote the following information on any resultant marine licence application: local planning authority name, planning officer name and contact details, planning application reference. Following submission of a marine licence application a case team will be in touch with the relevant planning officer to discuss next steps.	Policy and Legislative Context	Marine Mammals	Noted.	N
NFOWFS3_009_003_300 623	Environmental Impact Assessment With respect to projects that require a marine licence the EIA Directive (codified in Directive 2011/92/EU) is transposed into UK law by the Marine Works (Environmental Impact Assessment) Regulations 2007 (the MWR), as amended. Before a marine licence can be granted for projects that require EIA, MMO must ensure that applications for a marine licence are compliant with the MWR. In cases where a project requires both a marine licence and terrestrial planning permission, both the MWR and The Town and Country Planning (Environmental Impact Assessment) Regulations	Policy and Legislative Context	EIA Methodology	Noted.	N

	http://www.legislation.gov.uk/uksi/2 017/571/contents/made may be applicable. If this consultation request relates to a project capable of falling within either set of EIA regulations, then it is advised that the applicant submit a request directly to the MMO to ensure any requirements under the MWR are considered adequately at the following link https://www.gov.uk/guidance/make -a-marine-licence-application			
NFOWFS3_009_004_300 623	Under the Marine and Coastal Access Act 2009 ch.4, 58, public authorities must make decisions in accordance with marine policy documents and if it takes a decision that is against these policies it must state its reasons. MMO as such are responsible for implementing the relevant Marine Plans for their area, through existing regulatory and decision- making processes. Marine plans will inform and guide decision makers on development in marine and coastal areas. Proposals should conform with all relevant policies, taking account of economic, environmental and social considerations. Marine plans are a statutory consideration for public authorities with decision making functions. At its landward extent, a marine plan will apply up to the mean high water springs mark, which includes the tidal extent of any rivers. As marine plan boundaries extend up to the level of the mean high water	Policy and Legislative Context	Noted.	N

spring tides mark, there will be an		
overlap with terrestrial plans which		
generally extend to the mean low		
water springs mark.		
A map showing how England's		
waters have been split into 6		
marine plan areas is available on		
our website. For further		
information on how to apply the		
marine plans please visit our		
Explore Marine Plans service.		
Planning documents for areas with		
a coastal influence may wish to		
make reference to the MMO's		
licensing requirements and any		
relevant marine plans to ensure		
that necessary regulations are		
adhered to. All public authorities		
taking authorisation or		
enforcement decisions that affect		
or might affect the UK marine area		
must do so in accordance with the		
Marine and Coastal Access Act		
and the UK Marine Policy		
Statement unless relevant		
considerations indicate otherwise.		
Local authorities may also wish to		
refer to our online guidance and		
the Planning Advisory Service soundness self-assessment		
checklist. If you wish to contact		
your local marine planning officer		
you can find their details on our		
gov.uk page.		
yov.uk paye.		

NFOWFS3_009_005_300 623	Minerals and waste plans and local aggregate assessments If you are consulting on a	Policy and Legislative Context	Marine Water and Sediment Quality	Noted.	N
	mineral/waste plan or local aggregate assessment, the MMO recommend reference to marine aggregates is included and reference to be made to the documents below;				
	The Marine Policy Statement (MPS), section 3.5 which highlights the importance of marine aggregates and its supply to England's (and the UK)				
	construction industry. • The National Planning Policy Framework (NPPF) which sets out policies for national (England) construction minerals supply. • The Managed Aggregate Supply				
	System (MASS) which includes specific references to the role of marine aggregates in the wider portfolio of supply. The National and regional				
	guidelines for aggregates provision in England 2005-2020 predict likely aggregate demand over this period including marine supply. The NPPF informed MASS				
	guidance requires local mineral planning authorities to prepare Local Aggregate Assessments, these assessments have to consider the opportunities and constraints of all mineral supplies				
	into their planning regions – including marine. This means that even land-locked counties, may have to consider the role that marine sourced supplies (delivered by rail or river) play – particularly				
	where land based resources are becoming increasingly constrained.				

	If you require further guidance on the Marine Licencing process, please follow the link https://www.gov.uk/topic/planning-development/marine-licences			
NFOWFS3_010_001_020 723	Dear Sir/Madam Town and Country Planning Act 1990 NO OBJECTIONS RAISED Proposed work: North Falls Offshore Wind Farm-Energy Security and Net Zero under Section 37 of the Planning Act 2008. At: North Falls Offshore Wind Farm Thank you for your notification of	N/A	Noted.	N
	the above development which was registered in this office on 11th May 2023. I have reviewed the information provided on your website and consider that the proposals would not have any strategic implications for this Borough.			

NFOWFS3_011_001_060 723	Further to consultation amongst residents and Councillors, I would like to submit the following feedback on behalf of the Council: • Tunnelling should stay on the Beaumont side of Betty Dent's Corner where Swan Road meets Thorpe Road on the B1035	Traffic and Transport		Noted.	N
NFOWFS3_011_002_060 723	Stones Green Road off the B1035 is part of the National Sustrans Cycle Network	Traffic and Transport	Tourism and Recreation	Section 27.3.3 of ES Chapter 27 Traffic and Transport (Volume I) (document reference 3.1.29) outlines a package of embedded mitigation measures to reduce the effects of the Project's construction traffic upon the most sensitive communities and to minimise travelling via narrow roads. In particular this includes the use of a temporary haul road and vehicular crossovers to remove the requirement for any traffic to access from Stones Green Road and to reduce the number of HGV movements past sensitive communities located along the B1035, e.g. Tendring Green and Tendring.	N
NFOWFS3_011_003_060 723	There are many old oaks in the Stones Green area, some of which have Tree Preservation Orders	Onshore Ecology		Details of the potential effects of the Project on trees in the local area can be found in the Applicant's Tree Preservation Order and Hedgerow Plan (document reference 5.12).	N
NFOWFS3_011_004_060 723	The Council would like a limit imposed on working hours and working days	Project Description		Noted.	N
NFOWFS3_011_005_060 723	The Council request the B1035 is not used as an alternate route for traffic at any time	Traffic and Transport		Section 27.3.3 of ES Chapter 27 Traffic and Transport (Volume I) (document reference 3.1.29) outlines a package of embedded mitigation measures to reduce the effects of the Project's construction traffic upon the most sensitive communities and to minimise travelling via narrow roads. In particular this includes the use of a temporary haul road and vehicular crossovers to remove the requirement for any traffic to access from Stones Green Road and to reduce the number of HGV movements past sensitive communities located along the B1035, e.g. Tendring Green and Tendring.	N

NFOWFS3_011_006_060 723	The Council requests footpaths are kept open with diversions if needed	Tourism and Recreation	All diverted footpaths will be kept open with diversions. Further details of how footpaths will be managed are set out in the OPRoWMP (document reference 7.17).	Y
NFOWFS3_011_007_060 723	The Council requests the impact on agricultural and farming land is kept to an absolute minimum	Land Use and Agriculture	Noted.	N
NFOWFS3_011_008_060 723	Local people should be trained to work on site rather than bringing a workforce in from further afield	Socio-economics	An OSEP has been developed as part of the DCO process (document reference 7.18) which is secured by DCO Requirement. This provides details of commitments to training on site workers and procuring local firms.	Y
NFOWFS3_011_009_060 723	Procurement contracts should be placed with local firms	Socio-economics		
NFOWFS3_011_010_060 723	North Falls and Five Estuaries infrastructure should be constructed in conjunction with each other to avoid double the inconvenience for residents Please acknowledge receipt of these comments.	Site Selection and Assessment of Alternatives	The Applicant has worked with Five Estuaries throughout the pre-application stage to develop co-ordinated proposals as discussed in Section 5.3.1 and Section 5.7 of Chapter 5 Project Description of the ES (document reference 3.1.7) and reduce the projects' cumulative impact.	Y

NFOWFS3_012_001_060	FAO: Daniel Harper – Consent	Site Selection	Noted.	N
723	Manager	and Assessment		
	Re: East Suffolk Council's	of Alternatives		
	response to the third round of			
	consultation for the North Falls			
	Offshore Wind Farm Project –			
	Statutory Consultation (16 May –			
	14 July 2023).			
	Thank you for your letter dated 16			
	May 2023 inviting East Suffolk			
	Council (ESC) to provide feedback			
	on the third round of consultation			
	for the North Falls offshore wind			
	farm project. The statutory			
	consultation is being held between			
	16 May and 14 July 2023, with			
	ESC being identified as a			
	consultee for the purposes of			
	Section 42 of the Planning Act			
	2008 and/or Regulation 13 of the			
	Infrastructure Planning			
	(Environmental Impact			
	Assessment) Regulations 2017.			
	This letter provides ESC's			
	response to the statutory			
	consultation.			
	Having reviewed the published			
	statutory consultation materials,			
	ESC understands that the current			
	proposal is for either 72 offshore			
	wind turbines (310m to blade tip)			
	or 40 offshore wind turbines (397m			
	to blade tip) split across two			
	offshore array areas, with two			
	offshore substation platforms,			
	located approximately 22.5km off			
	the Suffolk coast at the closest			
	point. We understand the subsea			
	cable route will make landfall			
	between Frinton-on-Sea and			
	Holland-on-Sea in Tendring,			
	Essex. We also understand from			
	the previous round of non-statutory			
	consultation that National Grid has			
	made a grid connection offer for			
	the project, which assuming this			
	continues to be a radial			
	connection, is likely to be on the			
	Tendring Peninsula in proximity to			

the proposed Norwich to Tilbury	
(formerly East Anglia Green)	
project's connection substation	
south of Lawford.	
However, it is noted that the North	
Falls project is maintaining a	
flexible approach to connection	
options in the Development	
Consent Order (DCO), presenting	
three options for the transmission	
infrastructure. It is understood that	
the first option being proposed	
provides approximately 24km of	
underground cables (for this	
project alone) linking to a new	
onshore substation co-located with	
the Norwich to Tilbury project's	
substation at Lawford in Tendring.	
The second option being the same	
as the first option, apart from the	
sharing of all or part of the onshore	
cable route infrastructure with	
separate onshore export cables (potentially with the Five Estuaries	
offshore wind farm project where	
practicable), and the third option	
being an offshore electrical	
connection supplied by a third-	
party electricity network provider.	
The latter option being potentially	
identified through the Offshore	
Transmission Network Review	
(OTNR) process.	

NEOWEOG 040 000 000	A	0	NLC 1	N
NFOWFS3_012_002_060	As set out in our previous	Seascape,	Noted.	N
723	engagement at the non-statutory	Landscape and		
	consultation, ESC's primary	Visual		
	concern with the North Falls	Assessment		
	project relates to the potential for	(SLVIA)		
	seascape visual impacts being			
	introduced on our highly			
	designated coastline and			
	communities, including the Suffolk			
	Coast and Heaths Area of			
	Outstanding Natural Beauty			
	(AONB). In June 2020, Suffolk County Council (SCC) and Suffolk			
	Coast and Heaths Area of			
	Outstanding Natural Beauty			
	(AONB) Partnership (in			
	consultation with ESC and Natural			
	England (NE)) commissioned a			
	seascape sensitivity study for			
	offshore wind farms located in the			
	inshore and offshore waters off the			
	Suffolk coast (Suffolk Seascape			
	Sensitivity Study, White			
	Associates 2020).			
	The seascape of Suffolk is			
	sensitive to offshore wind farm			
	development primarily due to its			
	relationship with the combined			
	Suffolk Coast and Heaths AONB			
	and Suffolk Heritage Coast, with			
	seascape contributing significantly			
	to the AONB's setting and natural			
	beauty. To fully assess the			
	potential seascape impacts on			
	East Suffolk's coastal communities			
	and designated landscapes, an			
	update to the Suffolk Seascape			
	Sensitivity Study 2020 was required as the original scope of			
	works did not cater for the			
	proposed North Falls project			
	parameters having wind turbine			
	generators up to 397m to blade tip.			
	The findings of this updated study			
	have now been published and			
	inform our response to the			
	statutory consultation set out			
	below. Whilst this update was			
	commissioned to support ESC's			

	recent response to the Five Estuaries statutory consultation, having proposed wind turbines up to 424m to tip at approximately 37km from the Suffolk coast, its findings are equally applicable to the North Falls project, which proposes wind turbines up to 397m to tip at only 22.5km from the Suffolk coast. The Suffolk Seascape Sensitivity to Offshore Wind Farms Study update addendum - White Consultants (June 2023) is attached to this letter in Annex A.				
NFOWFS3_012_003_060 723	ESC is not a host authority, or a direct neighbouring authority of the onshore scoping area. However, whilst no onshore infrastructure is proposed within our District, ESC has concerns regarding the potential significance of visual impact on our coastal regions resulting from the project. At a distance of approximately 22.5km from the northern offshore array, the proposed wind turbines will be visible from the designated Suffolk Coast and Heaths AONB, and this response provides comments primarily relating to potential seascape, landscape and visual impacts and their anticipated significance. Our response is provided on the basis that the North Falls Offshore Wind Farm proposes an onshore grid connection located outside of Suffolk and beyond the ESC	Seascape, Landscape and Visual Assessment (SLVIA)	Site Selection and Assessment of Alternatives	Noted.	N

	District, however, should this change in future, our position on this project may need to be revisited. ESC therefore requests that should there be any amendments to the onshore (or offshore) connection location for the project, the Council is informed. This letter provides you with ESC's feedback on the current proposals set out in the Preliminary Environmental Information Report (PEIR) consultation materials. This letter should be read in conjunction with our response submitted to PINS for the EIA Scoping Report consultation (16 August 2021)1, and our previous non-statutory consultation responses (6 December 2021; 2 December 2022)2.				
NFOWFS3_012_004_060 723	Need case and coordination ESC acknowledges that renewable energy will play a central role in tackling climate change and in meeting Government targets in the lead up to net-zero by 2050. A significant amount of new offshore wind generation and associated infrastructure is required to connect 50GW by 2030. However, the shift towards the delivery of low carbon and renewable sources of energy must consider the potential impacts it may have on the landscape, natural environment and local communities set to host or neighbour such development. Developers must also explore opportunities for greater levels of coordination between projects in relation to the objectives set out in the OTNR. ESC supports North Falls' submission into the Government's Offshore Coordination Support Scheme (OCSS), noting that this	Need for the Project	Site Selection and Assessment of Alternatives	The Applicant has worked with Five Estuaries Offshore Wind Farm throughout the pre-application stage to develop co-ordinated proposals as discussed in Section 5.3.1 and Section 5.7 of ES Chapter 5 (Project Description).	Y

seeks to provide grants to offshore energy projects to develop coordinated options for offshore transmission infrastructure. North Falls is also engaging with the OTNR as is the developer of the Five Estuaries project, and whilst it is wetcomed that the North Falls project, alongside other developers, has committed to exploring options within the Early Opportunities workstream3, ESC remains disappointed that the project has not been put forward as a Pathfinder. Every opportunity should be undertaken by the two developers, given it is likely that they will have the same connection location, to seek maximum coordination between the projects in order to minimise impacts on local communities and the environment. The Sheringham Shoal and Dudgeon extension projects located in Norfolk are demonstrating that greater coordination is possible, and this should be replicated. ESC would welcome the opportunity to engage in future pathfinder discussions should these options be pursued within East Suffolk. 1 hijps://www.eastsuffolk.gov.uk/ass ets/Planning/Strategio-engagement/-ESC-North-Falls-
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response-to-North-Falls-Offshore-
Wind-Farm-informal-consultation-
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Windfarms/North-Falls/ESC-
response-to-North-Falls-Offshore-

	Wind-Farm-Informal-Consultation- Dec22.pdf		

NFOWFS3_012_005_060 723	ESC welcomes the intention for coordination between the North Falls and Five Estuaries offshore	Site Selection and Assessment of Alternatives	Policy and Legislative Context	Noted.	N
	wind farm projects, noting that an opportunity to coordinate more closely has been identified by the developers. We understand that coordination will seek to reduce the potential impact of building the onshore connection to the national				
	electricity transmission network for the two projects, however, note that the viability of any coordinated connection is dependent on the progress made by the OTNR process, associated regulatory and				
	commercial policy changes and the individual offshore connector projects involved. Whilst the proposed onshore connections for both North Falls and Five Estuaries projects are not				
	within the East Suffolk District, offshore options for connection should continue to be fully explored, minimising the need for onshore infrastructure. It is therefore encouraging to see the				
	intention of this project's DCO to include a third option for connection as stated earlier (an offshore electrical connection supplied by a third-party electricity				
	network provider), which will be for the Secretary of State to decide which is to be pursued as part of the DCO decision making process at the appropriate time. ESC supports the proposed				
	coordination effort between the two projects regarding key elements such as cable corridor selection (to optimise both onshore routes), environmental surveys and by sharing consultation				
	feedback. It is encouraging to read that coordination and cooperation				

will continue between the projects		
throughout their development and		
may enable elements of joint		
delivery should the technical and		
commercial conditions allow for		
this, reducing the potential impact		
of building the onshore connection		
to the national electricity		
transmission network for the two		
projects.		
ESC is being consulted on and is		
aware of a number of energy		
related projects that may have an		
impact on our District, and we		
welcome and support collaborative		
working between all Applicants		
and the National Grid to ensure		
that the optimal solution is		
delivered. We expect this to		
involve coordination and the		
sharing of infrastructure where		
feasible to reduce the amount		
required onshore.		
required orisitore.		

NFOWFS3_012_006_060	Seascape and cumulative impacts	Seascape,	Landscape and	Noted.	N
723	We have reviewed the relevant	Landscape and	Visual Impact		
	statutory consultation material	Visual	Assessment		
	including the PEIR Non-Technical	Assessment	(LVIA)		
	Summary and PEIR Report	(SLVIA)			
	including (but not limited to)				
	Chapter 6 Environmental Impact				
	Assessment Methodology;				
	Chapter 29 Offshore Seascape,				
	Landscape and Visual Impact				
	Assessment, Appendix 29.1 Seascape, Landscape and Visual				
	Impact Assessment and				
	Visualisation Methodology, and				
	Chapter 29 SLVIA – Figures				
	(Volume II); which collectively sets				
	out the current environmental				
	baseline, potential impacts, and				
	initial proposals to mitigate those				
	impacts.				
	In terms of the PEIR's Seascape				
	Visual Impact Assessment				
	(SLVIA), Section 3.3.2 within the				
	Non-Technical Summary states				
	that 'the impact assessment is				
	based on a worst-case scenario of				
	the largest turbines (40 wind				
	turbines up to 397m above Mean				
	High Water Spring (MHWS)) as				
	this will result in longer distance				
	visibility'. The PEIR concludes that				
	'North Falls is predicted to have major (significant in EIA terms)				
	effects on marine character areas,				
	and moderate (also significant in				
	EIA terms) effects on landscape				
	character areas				
	3 Joint statement from North Falls,				
	Five Estuaries and National Grid:				
	Commitment to exploring				
	coordinated network designs in				
	East Anglia				
	4 Page				
	and views at Sizewell Beach, cliffs				
	above Thorpeness, Aldeburgh,				
	Orford Ness, Shingle Street and				
	Pulhamite Cliffs (Bawdsey Manor),				
	as well as sections of the Suffolk				
	Coast Path and Suffolk Coast and				

	1	•	
	ONB with visibility of		
	s during operation		
influencing	g the seascape and		
landscape	character'. It also		
concludes	that 'There is potential		
	ative effects to occur with		
	of other offshore wind		
	ng all project phases.		
	ulative effects are		
	to be significant (major)		
	on marine character		
	d there is potential for		
	effects (moderate) for		
	and on certain		
viewpoints			
	9.8 within the PEIR		
	9 Offshore Seascape,		
	e and Visual Impact		
	ent notes that 'whilst		
	landscape and visual		
	ve been identified, there		
	dscape mitigation		
	, which require		
	g, which could lead to a		
	in landscape and visual		
effects'.	iii laliuscape aliu visual		
	pingionad undata to the		
	nissioned update to the		
	eascape Sensitivity Study		
	riews the sensitivity		
	ent previously undertaken		
	same study area limits,		
	for wind turbines >400m		
	p above Lowest		
	cal Tide (LAT) (more		
	te for the North Falls		
	397m to tip). The report		
	ms an addendum to the		
	sessment and together		
	ct as a framework and		
	nd study for assessing		
	seascape and visual		
	wind farms off of the		
Suffolk co			
	e addendum to the		
	eascape Sensitivity to		
	Vind Farms Study (2020)		
	iced by White		
	ts (June 2023) and is		
appended	to this letter in Annex A.		
It finds that	at wind turbines at 400m		

and greater to tip height should be	
located no less than 40km from	
the Suffolk coast for the introduced	
visual effects on coastal	
communities and the AONB to fall	
below the medium magnitude	
threshold. It also assessed the	
average offshore visibility	
distances related to the	
percentage of days each year that	
turbines can be seen from coastal	
receptors. For comparison with the	
Five Estuaries project arrays (with	
the closest row of 424m turbines at	
approximately 37.7km from the	
Suffolk coast at the closest point),	
this assessment concluded that	
the turbines would be visible less	
than 33% of days each year due to	
visibility modifiers (i.e.	
meteorological/atmospheric	
conditions). North Falls (at only	
22.5km from the Suffolk coast)	
would be expected to be visible	
more than this given their closer	
proximity and relative height at	
397m to tip. On days where the	
turbines will be visible, it is	
expected that visual effects from	
within the AONB will be worse	
than medium magnitude (which	
supports the North Falls' PEIR	
conclusions).	
In parallel to the Suffolk Seascape	
Sensitivity Study update	
addendum, White Consultants also	
undertook a comparison of	
seascape and visual impact	
assessment methodologies for Fact Anglia TMO/Fact Anglia ONE	
East Anglia TWO/East Anglia ONE	
North offshore wind farms and the	
Five Estuaries offshore wind farm	
to ensure consistency in the PEIR	
approach adopted. The	
comparison report is appended to	
this letter in Annex B, the findings	
of which have been considered in	
reference to the North Falls PEIR	
assessment. It is noted that for the	
North Falls PEIR assessment,	

impa	acts to the Natural Beauty and		
Spec	cial Qualities of the Suffolk		
	st and Heaths AONB are		
	sidered in Section 29.6 within		
	pter 29 Offshore Seascape,		
	dscape and Visual Impact		
	essment.		
	vever, the Applicant's		
	cription of the implications of		
	Offshore Above-Sea		
Deve	elopment for the Suffolk Coast		
& He	eaths AONB (29.6.2.2.2,		
Offsl	hore Seascape, Landscape		
and '	Visual Impact Assessment)		
	rs to the baseline description in		
	2013-2018 Suffolk Coast &		
	ths AONB Management Plan		
	not the current 2018-2023		
	olk Coast & Heaths AONB		
	agement Plan. ESC, SCC and		
	AONB Partnership collectively		
	clude that this approach is not		
	ciently robust for the		
	essment of potential impacts		
on the	he AONB. The PEIR		
seas	scape, landscape and visual		
impa	act assessment applies		
	eline descriptions taken from		
	2013-18 management plan. It		
	cknowledged that for other		
	P consultations, the AONB		
	nership has sought		
	essment of impacts against the		
	6 Natural Beauty and Special		
	lities document rather than the		
	scape character work outlined		
	the 2013-18 management		
	. The assessment should be		
	le against the more recent		
	olk Coast & Heaths Area of		
Outs	standing Natural		
	Page		
	uty and Special Quality		
	cators v1.8 November 2016 or		
	detailed Suffolk Landscape		
	racter Assessment4. An		
	essment of the offshore		
	nent of the proposals should		
	efore be undertaken against		
the C	defined natural beauty and		

special qualities of the Suffolk				
Coast & Heaths AONB and not the summary landscape character assessment as referenced in 29.6.2.2.2, Offshore Seascape, Landscape and Visual Impact Assessment. However, it is acknowledged that the North Falls PEIR concludes moderate effects on landscape character areas along the Suffolk coast, being significant in EIA terms. Therefore, whilst a more updated assessment is required, it is unlikely to alter the PEIR conclusion given the proximity of the northern array to coastal communities of Suffolk and the AONB. The maximum visual impact onshore will be in late summer afternoons when turbine blades face towards the coastline as it coincides with peak visitor periods at Suffolk coast locations. It is therefore clear from the PEIR findings that the current North Falls proposals (specifically the northern array of offshore wind turbines at only 22.5km from the Suffolk coast) will put the statutory purposes of the AONB designation at risk from the project alone and cumulatively with other projects due to the anticipated seascape visual impact introduced.				
Coastal geomorphology The PEIR assessment materials include Chapter 8 Marine Geology Oceanography and Physical Processes as well as the accompanying Figures (Volume II). Section 3.1 within the PEIR Non- Technical Summary concludes	Marine Geology Oceanography and Physical Processes		Numerical modelling of waves has now been completed for potential operational impacts due to the presence of the foundation structures for North Falls alone and cumulatively with other wind farms. The cumulative results are described in Section 8.8.3.3 of ES Chapter 8 (Marine Geology, Oceanography and Physical Processes) and shown in Figure 8.20 (document referece 3.2.4).	N
	summary landscape character assessment as referenced in 29.6.2.2.2, Offshore Seascape, Landscape and Visual Impact Assessment. However, it is acknowledged that the North Falls PEIR concludes moderate effects on landscape character areas along the Suffolk coast, being significant in EIA terms. Therefore, whilst a more updated assessment is required, it is unlikely to alter the PEIR conclusion given the proximity of the northern array to coastal communities of Suffolk and the AONB. The maximum visual impact onshore will be in late summer afternoons when turbine blades face towards the coastline as it coincides with peak visitor periods at Suffolk coast locations. It is therefore clear from the PEIR findings that the current North Falls proposals (specifically the northern array of offshore wind turbines at only 22.5km from the Suffolk coast) will put the statutory purposes of the AONB designation at risk from the project alone and cumulatively with other projects due to the anticipated seascape visual impact introduced. Coastal geomorphology The PEIR assessment materials include Chapter 8 Marine Geology Oceanography and Physical Processes as well as the accompanying Figures (Volume II). Section 3.1 within the PEIR Non-	summary landscape character assessment as referenced in 29.6.2.2.2, Offshore Seascape, Landscape and Visual Impact Assessment. However, it is acknowledged that the North Falls PEIR concludes moderate effects on landscape character areas along the Suffolk coast, being significant in EIA terms. Therefore, whilst a more updated assessment is required, it is unlikely to alter the PEIR conclusion given the proximity of the northern array to coastal communities of Suffolk and the AONB. The maximum visual impact onshore will be in late summer afternoons when turbine blades face towards the coastline as it coincides with peak visitor periods at Suffolk coast locations. It is therefore clear from the PEIR findings that the current North Falls proposals (specifically the northern array of offshore wind turbines at only 22.5km from the Suffolk coast) will put the statutory purposes of the AONB designation at risk from the project alone and cumulatively with other projects due to the anticipated seascape visual impact introduced. Coastal geomorphology The PEIR assessment materials include Chapter 8 Marine Geology Oceanography and Physical Processes as well as the accompanying Figures (Volume II). Section 3.1 within the PEIR Non-Technical Summary concludes	summary landscape character assessment as referenced in 29.6.2.2.2. Offshore Seascape, Landscape and Visual Impact Assessment. However, it is acknowledged that the North Falls PEIR concludes moderate effects on landscape character areas along the Suffolk coast, being significant in EIA terms. Therefore, whilst a more updated assessment is required, it is unlikely to alter the PEIR conclusion given the proximity of the northern array to coastal communities of Suffolk and the AONB. The maximum visual impact onshore will be in late summer afternoons when turbine blades face towards the coastline as it coincides with peak visitor periods at Suffolk coast locations. It is therefore clear from the PEIR findings that the current North Falls proposals (specifically the northern array of offshore wind turbines at only 22.5km from the Suffolk coast) will put the statutory purposes of the AONB designation at risk from the project alone and cumulatively with other projects due to the anticipated seascape visual impact introduced. Coastal geomorphology The PEIR assessment materials include Chapter 8 Marine Geology Oceanography and Physical Processes as well as the accompanying Figures (Volume II). Section 3.1 within the PEIR Non-Technical Summary concludes	summary landscape character assessment as referenced in 29.6.2.2. Offshore Seascape, Landscape and Visual Impact Assessment. However, it is acknowledged that the North Falls PEIR concludes moderate effects on landscape character areas along the Suffolk coast, being significant in EIA terms. Therefore, whilst a more updated assessment is required, it is unlikely to alter the PEIR conclusion given the proximity of the northern array to coastal communities of Suffolk and the AONB. The maximum visual impact onshore will be in late summer aftermoons when turbine blades face towards the coastline as it coincides with peak visitor periods at Suffolk coast locations. It is therefore clear from the PEIR findings that the current North Falls proposals (specifically the northern array of offshore wind turbines at only 22.5km from the Suffolk coast) will put the statutory purposes of the AONB designation at risk from the project alone and cumulatively with other projects due to the anticipated seascape visual impact introduced. Marine Geology Ceanography and Physical Processes Processes as well as the accompanying Figures (Volume II). Section 3.1 within the PEIR Non- Technical Summary concludes

	 ·	
predicted to have no greater than		
negligible adverse (not significant		
in EIA terms) effects on marine		
geology, oceanography and		
physical processes during all		
project phases There is		
potential for cumulative effects to		
occur with a number of other		
offshore wind farms and other		
projects. However, when		
considering proposed mitigation		
measures, it is not anticipated that		
cumulative effects are likely to be		
significant in EIA terms'.		
As set out in ESC's non-statutory		
consultation response, our coastal		
management concern focusses on		
the potential for an increasingly		
dense wall of offshore wind		
turbines having an effect on their		
lee side, such that this alters wind		
driven wave patterns through a		
reduction in wind energy. Our		
comments therefore focus on the		
assessment of how wave energy		
will be affected as this appears to		
have the greatest potential to		
cause an impact on the East		
Suffolk coastline. The impact of		
wave energy interruption by		
turbine foundations arising from		
both this development in isolation		
and the entire licensed turbine		
field, for a number of wave		
directions, needs to be fully		
understood and modelling should		
include possible effects to the ESC		
shoreline. This is considered		
important because if there is a		
measurable impact which reduces		
wave energy on approach to the		
East Suffolk shoreline from an		
east/southeast direction, then it		
has potential to alter the net		
sediment drift balance at the		
shoreline. There are coastal		
locations where a reduction in the		
southerly component of net drift		
may be significant e.g., East Lane		
Bawdsey and Thorpeness.		

It is requested that the final impact assessments undertaken for this project demonstrate consideration of the impact of wind energy interruption by the turbine array on lee side wave energy, in addition to turbine foundation interruption impacts, and this should provide a commentary on how this impact may impact net sediment trends over East Suffolk shorelines. NFOWFS3_012_008_060 723 NFOWFS3_012_008_060 Telritage considerations Within the PEIR Non-Technical Summary, Section 3.2.7 sets out NFOWFS3_012_008_060 Telritage considerations Cultural Heritage A detailed assessment of the predicted effects on the significance of heritage assets arising from visibility of the offshore development (following the	
723 Within the PEIR Non-Technical Archaeology and Summary, Section 3.2.7 sets out Cultural Heritage the significance of heritage assets arising from visibility of the offshore development (following the	
the onshore archaeology and cultural heritage findings. As set out in ESC's non-statutory consultation response, there are various built heritage assets located on the East Suffolk coastiline which could potentially be affected by the North Falls proposal 4 hips://suffolklandscape.org.uk/ 6 P a g e including those that derive some of their significance from their coastal location and maritime history. The latter would include the history of fishing, coastal protection, military defence and resort tourism, for example. The viewpoints previously set out in the EIA Scoping response cover most of these key areas of heritage significance for our District. Consideration should also be given to some of our coastal conservation Areas, these are designated heritage assets and, as they are area-based, may sustain wider-ranging impacts from the proposals than specified individual sites. The military chain of early 19th century Martello Towers is the most pre-eminent of our military coastal defence features.	Z

all of which are listed buildings and
scheduled monuments, having a
high level of designation. If the
North Sea is regarded as part of
the setting of these heritage assets
and which partly contributes to
their significance, then there is a
statutory obligation to include them
for the effect of the impacts arising
from the proposed offshore
development. This would include
the separate and combined
impacts arising from the northern
and southern arrays, although it is
acknowledged that combination
effect will be smaller further north
along the coastline.

NFOWFS3_012_009_060		Socio-economics	Tourism and	Noted.	N
723	Socio-economic effects and		Recreation		
	tourism				
	It is acknowledged that the PEIR				
	contains Chapter 31 Socio-				
	economics and accompanying				
	Figures (Volume II); Appendix 31.1				
	North Falls Offshore Wind Farm				
	Economic Impact; Chapter 32				
	Tourism and Recreation and				
	accompanying Figures (Volume II).				
	Within the PEIR Non-Technical				
	Summary, Section 3.3.4 sets out				
	the socio-economics findings and				
	Section 3.3.5 sets out findings on				
	tourism and recreation. The				
	assessment included				
	consideration of tourism assets				
	and activities in both Essex and				
	Suffolk, and Tendring Districts. For				
	marine and coastal tourism and				
	recreation, the study area was				
	based on the SLVIA study area				
	including the East Anglian coastal				
	and offshore waters, the Suffolk				
	coast and the Essex coast.				
	As set out in ESC's non-statutory				
	consultation response,				
	consideration must be given to				
	how the visual impact of the				
	turbines will affect visitors to the				
	southern coastal areas of our				
	District and the potential for				
	economic displacement when this				
	development is viewed in				
	combination with the other				
	proposed large				
	energy/infrastructure projects in				
	the region. Tourism plays an				
	important role in the local economy				
	across the East Suffolk District,				
	with many coastal locations being				
	popular holiday destinations, much				
	of which is designated for its				
	natural beauty and ecological				
	importance. This consideration				
	also needs to acknowledge that				
	many of these areas are still				
	recovering from the negative				

impacts of COVID19 on their		
businesses. Tourism impacts		
should be addressed by		
investment in place promotion and		
visitor 'assets'. ESC remains		
concerned that tourism effects		
may be felt in East Suffolk due to		
seascape visual impacts		
introduced by the proposed wind		
farm extension, either alone or in-		
combination with other NSIP		
projects.		
Noting the matters raised in the		
seascape section of this letter,		
ESC still awaits further		
assessment being completed. The		
need for a detailed assessment of		
AONB special qualities has been		
highlighted to inform ESC's final		
position on the visual effects within		
the AONB, and we reserve the		
right to provide more detailed		
comments on socio-economic		
effects and tourism once this has		
been completed. However, it has		
already been acknowledged in the		
seascape section of this letter that		
the North Falls PEIR concludes		
moderate effects on landscape		
character areas along the Suffolk		
coast, being significant in EIA		
terms.		
It was discussed earlier in this		
letter that Section 29.8 within the		
PEIR Chapter 29 Offshore		
Seascape, Landscape and Visual		
Impact Assessment notes that		
whilst significant landscape and		
visual effects have been identified,		
there are no landscape mitigation		
proposals, which require		
monitoring, which could lead to a		
reduction in landscape and visual		
effects'. Residual visual effects on		
our coastline will therefore remain,		
and ESC are unable to support the		
PEIR's tourism and recreation		
conclusion which states 'With the		
implementation of mitigation		
measures, North Falls is predicted		
measures, North alls is predicted		

to have no greater than minor		
adverse (not		
7 P a g e		
significant in EIA terms) effects on		
tourism and recreation during all		
its phases. There is not entirel for		
its phases There is potential for		
cumulative effects to occur with a		
number of other offshore wind		
farms and/or projects. However,		
when considering proposed		
when considering proposed		
mitigation measures, potential		
cumulative effects have been		
assessed as not significant (in EIA		
terms).' Our concerns relating to		
terms). Our concerns relating to		
seascape visual impacts and the		
potential knock-on effects on		
tourism and recreation within our		
District therefore remains		
unchanged.		

NFOWFS3_012_010_060 723	Future consultation and engagement We understand that this response will also be shared with Five Estuaries Offshore Wind Farm as part of the coordination effort between the two projects. It is understood that the feedback received as part of this consultation will be used to refine the assessment and mitigation proposals within the final Environmental Statement submitted for Examination as part of the DCO process. ESC welcomes ongoing engagement with the North Falls project as the DCO application progresses and we trust the feedback provided in this letter is useful, being read alongside our earlier consultation responses and the EIA Scoping response submitted by ESC to PINS in Autumn 2021. Conclusion Having reviewed the North Falls PEIR assessment and findings, alongside the recently commissioned White Consultants report updates (June 2023), the northern array is due to contain wind turbines up to 397m to tip at a distance of only 22.5km from the Suffolk coast. In terms of wind turbine visibility, the North Falls PEIR concludes moderate effects on landscape character areas along the Suffolk coast, being significant in EIA terms. It has been acknowledged within the PEIR assessment that there are no landscape mitigation proposals which could lead to a reduction in visual effects, and it can therefore be concluded that the mitigation hierarchy would be unable to fully mitigate the anticipated effects and that	Seascape, Landscape and Visual Assessment (SLVIA)	A detailed assessment of the predicted effects on the significance of heritage assets arising from visibility of the offshore development (following the decision to remove the northern cluster of turbines from the proposed development) is presented in Appendix 25.4 Offshore Infrastructure Setting Assessment (Volume III) (document reference 3.3.51).	N
	residual impacts would remain			
	residual impacts would remain			

upon the AONB special qualities.		
It is therefore clear from the PEIR		
findings that the current North		
Falls proposals (specifically the		
northern array of offshore wind		
turbines) will put the statutory		
purposes of the AONB designation		
at risk from the project alone and		
cumulatively with other projects		
due to the anticipated seascape		
visual impact introduced. It is also		
possible that residual impacts		
could have a detrimental effect on		
tourism and recreational activities		
in these areas.		
Therefore, ESC does not support		
the current North Falls project		
given the magnitude of seascape		
visual impacts anticipated on		
Suffolk coastal communities and		
the special qualities of the AONB.		
Notwithstanding ESC's carefully		
considered objection to the		
scheme, if the Secretary of State		
decides to consent the scheme,		
ESC (in conjunction with SCC as		
host Authority and the SCHAONB		
Partnership) will be seeking		
appropriate compensation to offset		
the seascape impacts introduced		
by the current offshore wind		
turbine layout.		
8 Pagé		
Annex A - Suffolk Seascape		
Sensitivity to Offshore Wind Farms		
Study update addendum - White		
Consultants (June 2023).		
9 P a g e		
Annex B - Comparison of		
seascape and visual impact		
assessment methodologies for		
East Anglia TWO/East Anglia ONE		
North offshore wind farms and		
Five Estuaries wind farm – White		
Consultants (June 2023).		

NFOWFS3_013_001_110 723	RESPONSE OF BABERGH AND MID SUFFOLK DISTRICT	Introduction		Noted.	N
	COUNCILS				
	This is the response of Babergh and Mid Suffolk District Councils to the non-statutory pre-application consultation for the proposed North Falls Offshore Windfarm NSIP.				
	Introduction				
	Although they remain two separate sovereign councils, since 2013 Babergh and Mid Suffolk District Councils have been working together to deliver services and they share a Chief Executive, management team and joint workforce who work across both authorities. The comments below are submitted on behalf of both councils except where they are specifically attributed to a single council. Babergh and Mid Suffolk District Councils consider their role of protecting and promoting the interests of the districts' communities, businesses and environment to be of utmost importance and recognise the contribution Babergh and Mid Suffolk make to the unique				
	character and quality of Suffolk and the wider eastern region.				
NFOWFS3_013_002_110 723	Comments The councils acknowledge the national importance of strategic energy infrastructure and have previously stated a preference for a coordinated, offshore approach to the delivery of transmission reinforcement, import and export objectives including consolidation	Need for the Project	Site Selection and Assessment of Alternatives	Noted.	N

	of offshore connections and onshore infrastructure together with appropriate management of construction activities to effectively minimise and mitigate harm to Suffolk's communities and environment.				
NFOWFS3_013_003_110 723	That position notwithstanding, the councils take this opportunity to register their concern in respect of the potential visual impacts of the substation element of the project on the landscape of Babergh District Council, including the designated AONB, especially having regard to cumulative impacts with other projects in the area. The council also acknowledges the comments from the AONB.	Landscape and Visual Impact Assessment (LVIA)	Site Selection and Assessment of Alternatives	Noted.	N
NFOWFS3_014_001_090 723	Response to North Falls Statutory Consultation Little Bromley Parish Council (LBPC) strongly oppose North Falls proposal for development of onshore infrastructure in the parish of Little Bromley. We do support your Option 3 for the projects National Grid connection point, an Offshore electrical connection supplied by a third party electricity distribution network provider.	Need for the Project		The feasibility of Option 3 (an offshore connection) is subject to the outcomes of the OCSS which is expected to conclude in March 2025. Therefore radial transmission to an onshore connection location must be included in the North Falls DCO application.	N
NFOWFS3_014_002_090 723	An onshore development would industrialise our precious rural landscape with a large substation and large swathes of farmland permanently affected by underground cabling.	Land Use and Agriculture	Landscape and Visual Impact Assessment (LVIA)	Details of the potential effects of the Project have been considered in detail throughout the ES; in particular effects from loss of agricultural land are considered within Section 22.6 of Chapter 22 Land Use and Agriculture (document reference 3.1.24) of the ES.	N

NFOWFS3_014_003_090 723	Such a development would be a permanent disfigurement of the parish, remove valuable arable land necessary for food security from production, generate significant construction and ongoing noise, and affect residents and community amenities.	Land Use and Agriculture	Noise and Vibration	Construction and operational noise impacts have been assessed in accordance with best practice and mitigation measures identified, as required, such that significant adverse effects are not anticipated at human receptors, which includes the dwellings in the Little Bromley parish.	
NFOWFS3_014_004_090 723	There is concern that the development will negatively affect sale potential and sale value of properties in the area.	Socio-economics		Assessment of property type, value and impact is considered in detail throughout Chapter 31 Socio-economics (document reference 3.1.33) of the ES	N
NFOWFS3_014_005_090 723	LBPC understand that North Falls is working in Tendring District and Little Bromley as you have been offered a connection into the proposed National Grid East Anglia Connection substation. The National Grid project is very contentious with over 23,000 people having signed a petition calling for an offshore grid. Across East Anglia residents, parish councils, district councils, county councils and members of parliament (OFFSET group of MP's) have united in voicing their opposition to the current National Grid plans. With an offshore connection there would be no need for your	Site Selection and Assessment of Alternatives		The Applicant co-operated with the Department of Energy Security and Net Zero (DESNZ) to explore grid connection options, as part of the Offshore Transmission Network Review (OTNR). In addition, NFOW has applied to the OCSS in consortium with National Grid Electricity Transmission (NGET) and Five Estuaries for an offshore connection to Sea Link, a marine cable between Suffolk and Kent proposed by NGET as part of their Great Grid Upgrade. The Applicant continues to engage with Government, Office of Gas and Electricity Markets (Ofgem) and other developers to explore the potential options.	N

	development onshore. LBPC ask that North Falls support and participate in the DESNZ OTNR supporting the offshore option.				
NFOWFS3_014_006_090 723	The cumulative effect of the currently planned North Falls onshore development together with those planned by Five Estuaries and National Grid is devastating for Little Bromley and is causing many residents anxiety and stress.	Human Health	Site Selection and Assessment of Alternatives	The Applicant understands the Project's potential impacts and that the length of the development process can create uncertainty and stress. The Applicant takes its role as a responsible developer seriously, and concerns and feedback will be considered throughout the Project's continued development. The Applicant is also always happy to answer enquiries from its stakeholders and members of the public.	N
NFOWFS3_014_007_090 723	Specific concerns we have with the North Falls onshore plans as detailed in this Consultation are as follows: • Visual Impact - The potential visual impact for the entire parish from the North Falls substation is major. The scale of the substation within its 60Ha search area is large (267m x 300m - 8Ha), with the height of the substation buildings being up to 15m. LBPC believe any proposed screening cannot be entirely effective. We note that you have chosen not to define your plans for screening and visual mitigation at this time which is disappointing. LBPC would like to	Landscape and Visual Impact Assessment (LVIA)		Noted.	N

	understand these plans, what visual mitigations will be in place and how these will improve over time.			
NFOWFS3_014_009_090 723	Operational Noise - LBPC note that you have not provided any estimates for actual noise from the substation as equipment is not yet selected. However you suggest an upper limit of 35dBA (as measured at the nearest receptor). LBPC believes that this is too high. LBPC believe that it is essential that residents have a clear understanding of noise levels and mitigation measures in place. As can be seen from background noise measurements, Little Bromley is a very quiet area, and LBPC believe that any noise increase with consequent reduction in quality of life for residents is unacceptable.	Noise and Vibration	Section 26.4.3.6 of ES Chapter 26 (Noise and Vibration) discusses the proposed approach to assessment of operational noise impacts and provides evidence based on accepted standards and guidance that, where background sound levels are low, the Lowest Observed Adverse Effect Level should be a rating level of 35dB LAr,Tr for the substation sound. This approach has been agreed with Tendring District Council through the ETG process. As discussed in Section 26.8.3.1.3 of ES Chapter 26 (Noise and Vibration), cumulative substation noise levels will be controlled to not exceed 35dB LAr,Tr at any residential property by DCO Requirement and this will avoid a reduction in quality of life for residents.	N
NFOWFS3_014_010_090 723	Construction Noise - The construction period of 12-hours per day, 6 days a week for many years will be hugely disruptive to the village and surrounding area. LBPC believes that construction noise will be intrusive to the village and surrounding areas. You have identified a number of NVSR's in the Parish who will be affected even after designed mitigation. LBPC also believe that different noise	Noise and Vibration	Embedded mitigation measures to reduce construction noise impacts are discussed in Section 26.3.3 of ES Chapter 26 (Noise and Vibration), with additional mitigation measures discussed as required relevant to each construction phase impact assessed in Section 26.6.1 of ES Chapter 26 (Noise and Vibration).	Y

	types can be particularly penetrating - for example a back-up alarm or vehicle motion alarm can be clearly heard over a long distance. It would be helpful to understand what additional mitigation measures could be included to reduce construction noise.				
NFOWFS3_014_011_090 723	Construction Traffic - The predicted HGV traffic during the construction period is exceptionally high with, for North Falls traffic alone, a growth of 1,457% growth from today on Bentley Road (257 HGV's per day at peak). With a 12 hour work day this would indicate an average of 21 HGV movements per hour, or one every 3 minutes. If you include traffic flows for Five Estuaries as well the HGV traffic growth on Bentley Road is 2,959% with peak traffic of 503 HGV's per day. This equates to a 42 HGV movements every hour, or one every 1.5 minutes. Bentley Road and all roads in the parish of Little Bromley are not designed for such traffic volumes and size. It is not possible for two HGV's to pass on most roads without one of the vehicles mounting the road verge, with subsequent verge damage. The roads themselves are in poor repair, and with this volume of HGV's will deteriorate further and faster. LBPC would like to understand how North Falls will mitigate these highway problems.	Traffic and Transport		Table 27-2 of the ES (Chapter 27 Traffic and Transport (Volume I)) includes details of an extensive package of mitigation measures to address comments in regard to the effects of construction traffic upon the users of Bentley Road. An Outline Construction Traffic Management Plan (OCTMP) (document reference 7.16) is submitted with the DCO application. The OCTMP includes details of the approach to managing the highway condition.	N
NFOWFS3_014_012_090 723	Construction Dust and Mud - North Falls are planning a 5-year construction project which will create	Land Use and Agriculture	Traffic and Transport	Construction dust and particulate matter impacts have been assessed in Section 20.6.1.1 with site specific mitigation included in Section 20.6.1.1.5 of ES Chapter 20 (Onshore Air Quality).	N

	pignificant dust, dist and sould are				
	significant dust, dirt and mud on roads. Residents properties and gardens will be affected, and our roads will be affected. LBPC would like to understand how North Falls plan to mitigate this.				
NFOWFS3_014_013_090 723	Construction Traffic Management LBPC understand that the current traffic management plan is essentially for traffic to be removed from the public highways onto haul roads. It has not been made clear how access of North Falls traffic into and out of haul roads will be achieved - will this be by traffic light control for example - as this could cause delays in the local road network. With predicted traffic volumes for Bentley Road if access is poorly implemented then significant traffic delays and problems could be created. LBPC would also like to understand how North Falls will ensure and police that HGV's and other development traffic does not route through the village of Little Bromley and surrounding single track roads.	Traffic and Transport		An Outline Construction Traffic Management Plan (OCTMP) (document reference 7.16) is submitted alongside this DCO application and will be further developed and agreed with stakeholders prior to construction. The OCTMP provides details of the proposed approach to managing and monitoring of traffic movements associated with North Falls.	N
NFOWFS3_014_014_090 723	Route Disruption - LBPC believe the impact on the local road network around Little Bromley parish will be high. Bentley Road, Paynes Lane, Spratts Lane, Barlon Road, Ardleigh Road and Grange Road will all be crossed by the Export Cable Corridor and Haul Roads. LBPC understand that Bentley Road will be crossed using HDD and we have been advised that the other roads listed will be open trenched. With all these roads affected there will be major disruption to village, farm and business traffic flows, with the key access into the A120 severely restricted. LBPC believe that there	Traffic and Transport	Onshore Archaeology and Cultural Heritage	Section 27.6.1.5 of Chapter 27 Traffic and Transport (Volume I) of the ES (document reference 3.1.29) presents an assessment of the effects of road closures upon driver delay. Section 27.6.1 of Chapter 27, Traffic and Transport (Volume I), of the ES (document reference 3.1.29) includes an assessment of the effects of the Project's construction traffic upon severance and amenity of all road users (including those of PRoW, as identified in Table 27-13).	N

	is a real risk of Bentley Road effectively being unusable by local traffic, such that the village and surrounding towns main link to the A120 will be severed.			
NFOWFS3_014_015_090 723	Loss of Village Amenity - The North Falls development and associated facilities such as haul roads, temporary construction compounds and haul road access points will be highly disruptive to day-today village life. Quiet country roads and Public Rights of Way will be affected impacting residents, walkers, cyclists and horse riders.	Traffic and Transport	Section 27.6.1.3 of Chapter 27 Traffic and Transport (Volume I) (document reference 3.1.29) of the ES presents an assessment of the effects of the Project upon amenity. Section 27.6.1.5 of this chapter presents an assessment of the effects of road closures upon driver delay. The Outline Construction Traffic Management Plan (document reference 7.16) includes details of measures to manage the Projects traffic movements during planned events, such as the Bromley 10k race.	N
NFOWFS3_014_016_090 723	There are many farms which need access to their properties and fields at all times of year, and especially during harvest.	Land Use and Agriculture		
NFOWFS3_014_017_090 723	Annual events such as the Little Bromley 10k race and the Corbeau Seats Rally use many of the roads and areas of the parish that will be affected by the development. Both these events raise significant funds for local charities.	Tourism and Recreation		

NFOWFS3_014_018_090 723	An important village social gathering point is St Marys Church (Grade II* Listed by National Heritage), which will have the underground cabling and haul road passing close and have major development close by. St Marys is maintained by the Church's Conservation Trust, with many events organised by the Friends of Little Bromley Church. Services are still carried out on an occasional basis at the Church. The village bus service runs down Bentley Road, and school buses run daily during term time to take local children to their schools.	Onshore Archaeology and Cultural Heritage			
NFOWFS3_014_019_090 723	Business Impact - With road diversions and closures and large parts of the parish under development our village businesses, many of which depend on local road access by customers, could be seriously affected. Written Correspondence to: The Clerk, Dakas House, Shop Road, Little Bromley, Manningtree CO11 2PX	Socio-economics	Traffic and Transport	Chapter 27 Traffic and Transport (document reference 3.1.29) of the ES assesses the impact of road diversions and closures on road users. The assessment includes a detailed of mitigation being put in place to ensure communities, businesses and other local stakeholders fully understand the scale of change and the embedded mitigations and how they are secured and enforced.	N

NFOWFS3_014_020_090 723	Village Well Water - Many properties in Little Bromley have no mains water connection and are reliant on well water. There is concern on whether the North Falls development will affect the water sources in the village and affect these water supplies. Extension of the water main to these properties would seem to be the only way to guarantee continuity of supply.	Ground Conditions and Contamination	E E E E E E E E E E E E E E E E E E E	Information relating to groundwater and surface water abstractions has been received from the Environment Agency and local authority, with relevant information included within Table 19.10 of Chapter 19 Ground Conditions and Contamination (document reference 3.1.21) of the ES, with additional detail provided in Appendix 19.1 Geo-Environmental Desk Study and Preliminary Risk Assessment Report (Volume III) (document reference 3.3.20). Potential impacts to identified resources during construction and operation are provided in Sections 19.6.1.2 and 19.6.2.2 of ES Chapter 19 Ground Conditions and Contamination respectively. A high level screening exercise to identify those potable groundwater abstractions that may be impacted as a result of the construction and operation of the Project will be undertaken. Where potentially impacted potable groundwater abstractions are identified, a detailed Hydrogeological Risk Assessment will be undertaken. The Hydrogeological Risk Assessment will be undertaken post consent and will include an assessment on potential disruption to local water supplies and outline appropriate mitigation measures to reduce the magnitude of impact. Potential impacts on surface and groundwater flows, including abstractions, are assessed in Section 21.6.1.3, Section 21.6.1.4, Section 21.6.2.1 and Section 21.6.2.2 of ES Chapter 21 (Water Resources and Flood Risk).	Y
NFOWFS3_014_021_090 723	Village Drainage - Little Bromley has a very high water table and during wet periods localised flooding and drainage problems can occur. There is concern on whether the North Falls development will affect the village drainage flows and increase the frequency or scale of these events.	Water Resources and Flood Risk	F 2	Potential impacts on flood risk are assessed in Section 21.6.1.4 and Section 21.6.2.2 of ES Chapter 21 (Water Resources and Flood Risk) Flooding from all sources is assessed in Appendix 21.3 Flood Risk Assessment (document reference 3.3.29).	N

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NFOWFS3_014_022_090 723	• Wildlife and Environmental Impact - Little Bromley parish has a rich and varied wildlife population as identified by wildlife surveys. This includes many species of waterbirds and non-waterbirds. We are very close to the Stour Estuary SSI and Ramsar site, and surveys indicate bird species present which are related to those sites. Badgers, hares, foxes, deer, bats and other mammals can be found in the parish. Grass snakes are regular seen in the summer. These all thrive in the parish, as we have woodland, extensive hedgerows and arable margins some of which will be affected by your planned development. The migratory bird route across East Anglia, the East Atlantic Flyway, has gained Government backing to bid to become a UNESCO World Heritage Site. Major developments such as planned by Five Estuaries, North Falls and National Grid will have serious impact. Potential exists for protected or notable species to be impacted by construction activities either physically via permanent or temporary habitat loss or by inadvertent injury or killing or from disturbance via light, noise and human presence. There is potential for permanent habitat fragmentation and also from construction will bring a permanent loss of an estimated 8Ha of habitat together with the additional loss of the temporary construction compound areas and the cable route during construction.	Onshore Ornithology	Onshore Ecology	The importance of the onshore ornithology study area for breeding and non-breeding bird assemblages has been carefully considered in the Project design and assessment. It is agreed that the potential exists for the impacts listed to occur to IOFs, and as such a range of mitigation measures is proposed to minimise the risk to species of key conservation concern, including migratory species which utilise wetlands that form part of the National Site Network in southeast England. The impacts of habitat loss and fragmentation on breeding birds due to the onshore substation has been assessed accordingly, with appropriate mitigation and enhancement measures proposed. Impacts on named species, mitigation, and how losses are being minimised and avoided are addressed in this ES, namely in Section 23.6 of Chapter 23 (Onshore Ecology). Main migratory locations are designated sites and are fully assessed in the HRA and in Chapter 24 Onshore Ornithology (Volume I) (document reference 3.1.25). Mitigation measures are also addressed in the OLEMS (document reference 7.14) and Schedule of Mitigation (document reference 2.6).	N N

NF 72	FOWFS3_015_001_130	1 Future Infrastructure Risk July 2023	Human Health	Noted.	N
72	J	Essex County Fire and Rescue Service Initial Response to North Falls Off Shore Wind Farm ECFRS Initial Response to North Falls Off Shore Wind Farm 2 Version 1 Future Infrastructure Risk July 2023			
		About This document outlines Essex Fire and Rescue Service's initial response to the consultation for the proposed development. Essex County Fire and Rescue Service has a statutory duty to provide Response, Prevention and			
		Protection functions within the community. Therefore, we would welcome any opportunities to enable further development and enhancement of these provisions. If further information or clarification on any of the points presented is required to support the developers, please contact the Service via			
		future.infrastructure.risk@essex- fire.gov.uk. ECFRS Initial Response to North Falls Off Shore Wind Farm 3 Version 1 Future Infrastructure Risk July 2023			

	• • Prevention, protection and		
	response		
	Improve safety on our roads		
	Improve salety off our roads		
	• • Help the vulnerable to stay safe		
	• • Promote a positive culture in the		
	workplace		
	• • Develop and broaden the roles		
	and range of activities undertaken		
	by the Service		
	by the Service		
	• • Be transparent, open and		
	accessible		
	• • Collaborate with our partners		
	Make best use of our resources		

NFOWFS3_015_003_130 723	Essex Design Guide The Essex Design Guide provides high level direction for new developments which we would like to draw your attention to: ECFRS Initial Response to North Falls Off Shore Wind Farm 4 Version 1 Future Infrastructure Risk July 2023 •• Continuation of road design to ensure safe and timely access and egress to and from new developments. •• Continuation of road design to include turning circle provision plus future consideration to appliance sizes to ensure adequate space to manoeuvre on a development. •• Consideration for installation of an approved suppression system with better safety and more design freedom. Sprinkler considerations would help to isolate fire to the source and to ensure better safety for occupants / emergency services / reduce insurance costs.	Policy and Legislative Context	Human Health	Noted.	N
	This may also afford developers more design freedom and scope for capacity in respect of distance from buildings to fire appliance				
	access points. • • Continued consultation with Water Authorities for fire hydrant / water main provisions and				
	consideration to ensure sufficient strategically placed resources are made available for operational firefighting and with appropriate				
	water pressure considerations. • • Ensure new fire hydrant installations are fully operational before permitting residents to				
	occupy dwellings. • • Ensuring new fire hydrants are not installed within private driveways / gardens.				
	Continuation of at least 3 forms				

	of fire hydrant asset indication. Hydrant indicator plate / post, painted FH cover and painted adjacent kerb. In the absence of a kerb then a thermoplastic yellow road 'H' applied to the road surface. • Section 106 agreement at planning application stage to ensure that the developer will bear the costs for any new fire hydrant installations deemed necessary by the Fire Authority where the new development exceeds 10 dwellings. • Where applicable door sets to carry dual certification ensuring compliance with fire and security regulations. Such recommendations align with both the Independent Review of Building Regulations and Fire Safety in the wake of and the review and recommendations resulting from the Grenfell Fire tragedy of 2017. • Fire resistant cladding considerations that may fall outside of Building Control matters.			
NFOWFS3_015_004_130 723	Initial Response to Consultation Document Having reviewed the consultation document, at this time Essex County Fire and Rescue Service would ask that the following are considered during the continued development of the North Falls Off Shore Wind Farm: • • Adherence to the requirements of the Fire Safety Order and relevant building regulations, especially approved document B. ECFRS Initial Response to North Falls Off Shore Wind Farm 5	Policy and Legislative Context	All buildings constructed for the Project will comply with the relevant buildings fire safety regulations. Fire suppression systems will be provided where required for safety reasons. The type of suppression system will be based on the equipment present within the room. The design proposes limited changes to the road network. There will be temporary restrictions whilst construction is ongoing, but these will be discussed and communicated with the relevant stakeholders. Further details on construction access are provided in Chapter 27 Traffic and Transport (Volume I) (document reference 3.1.29) of the ES.	N

	I				
NFOWFS3_015_005_130 723	Version 1 Future Infrastructure Risk July 2023 • Installation of smoke alarms and/or sprinkler systems at suitably spaced locations throughout each building.	Human Health	Policy and Legislative Context	Measures to mitigate effects upon water resources are detailed in Chapter 21 Water Resources and Flood Risk (Volume I) (document reference 3.1.23) of the ES. A Design Vision (document reference 2.3) has been prepared which sets out the principles to be adhered during development of the Project's design, including in relation to operational safety. All construction works will be carried out by a competent contractor, in adherence with the construction management measures set out in the OCoCP (document reference 7.13). The approach to the provision of fire suppression systems also accords with the relevant buildings	
NFOWFS3_015_006_130 723	Implementation of vision zero principles where there are introductions of or changes to the road network.	Traffic and Transport		fire safety regulations.	
NFOWFS3_015_007_130 723	Appropriate planning and mitigations to reduce risks around outdoor water sources.	Water Resources and Flood Risk			
NFOWFS3_015_008_130 723	Suitable principles in design to avoid deliberate fire setting.	Infrastructure and Other Users	Human Health		

NFOWFS3_015_009_130 723	Consideration for road widths to be accessible whilst not impeding emergency service vehicle response through safe access routes for fire appliances including room to manoeuvre (such as turning circles).	Traffic and Transport		Chapter 5 Project Description (Volume I) (document reference 3.1.7) of the ES includes details in regard to the design of the Project's infrastructure.	N
NFOWFS3_015_010_130 723	*• Access for Fire Service purposes must be considered in accordance with the Essex Act 1987 – Section 13, with new roads or surfaces compliant with the table below to withstand the standard 18 tonne fire appliances used by Essex County Fire and Rescue Service. Min. Width of Road between Kerbs Min. Width of Gateways Min. Heigh Clearance Min. Carrying Capacity Min. Turning Circle (Kerb to Kerb) Min. Turning Circle (Kerb to Kerb) Min. Turning Circle Pumping Appliance 3.7m 3.1m 3.7m 18 tonnes 17.8m 19.0m 19.0m High Reach 3.7m 3.1m 4.0m 26 tonnes 17,8m 20.0m	Traffic and Transport	Policy and Legislative Context		
NFOWFS3_015_011_130 723	Implementation of a transport strategy to minimise the impact of construction and prevent an increase in the number of road traffic collisions. Any development should not negatively impact on the Service's ability to respond to an incident in the local area.	Traffic and Transport		Section 27.6.1.4 of Chapter 27 Traffic and Transport (Volume I) (document reference 3.1.29) of the ES includes a detailed assessment of the Project's construction traffic upon highway safety.	N
NFOWFS3_015_012_130 723	A risk reduction strategy to cover the construction and completion phases of the project.	Project Description		A Design Vision (document reference 2.3) has been prepared which sets out the principles to be adhered during development of the Project's design, including in relation to operational safety. All construction works will be carried out by a competent contractor, in adherence with the construction management measures set out in the OCoCP (document reference 7.13).	N

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ļ	NFOWFS3_015_013_130 723	Implementation of a land management strategy to minimise the potential spread of fire either from or towards the development site. Essex County Fire and Rescue Service welcomes the opportunity to continue these conversations as the development progresses to ensure opportunities to reduce risk and improve the emergency service provision are realised.	Project Description		Noted.	N
	NFOWFS3_016_001_130 723	Dear Daniel, North Falls Offshore Wind Farm (NFOWF) Project Statutory consultation to 14th July 2023 Thank you for the opportunity to comment on the statutory consultation for the NFOWF and the Preliminary Environmental Impact Report (PEIR). Anglian Water is the statutory sewerage undertaker for the proposed onshore project area for the cable corridor between landfall and the onshore substation within the Tendring District Council area. As highlighted in our response to the scoping consultation, Anglian Water would welcome discussions with North Falls and SSER/RWE before the subsequent submission of the Draft DCO for examination. We would recommend discussion on the following issues: The Draft DCO Order including protective provisions specifically to ensure Anglian Water's services are maintained during construction Requirement for wastewater services for onshore infrastructure Impact of development on Anglian Water's assets and the need for mitigation Pre-construction surveys if required	Water Resources and Flood Risk	Infrastructure and Other Users	Noted.	N

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NFOWFS3_016_002_130 723	PEIR NON-TECHNICAL SUMMARY Anglian Water welcomes reference to the revised drafts of applicable National Policy Statements, and that these versions will inform the Environmental Statement, when the DCO application is submitted for examination. We support the coordination sought with the Five Estuaries Offshore Wind Farm (VEOWF) regarding the opportunities to coordinate as part of the onshore construction process (regarding cable route and potential substation) to minimise the overall impact of the two projects and to ensure consistent and efficient engagement with stakeholders including statutory undertakers	Site Selection and Assessment of Alternatives	Policy and Legislative Context	Noted.	N
NFOWFS3_016_003_130 723	VOLUME 1, CHAPTER 4: SITE SELECTION AND ASSESSMENT OF ALTERNATIVES Anglian Water notes the process for identifying the onshore project area and onshore substation siting options and acknowledge that the detailed design development work has been defined by three options for onshore electrical connection – consisting of cable route and onshore substation infrastructure, with landfall between Clacton-on-Sea and Frinton-on-Sea. Anglian Water Services Lancaster House, Lancaster Way, Ermine Business Park, Huntingdon, Cambridgeshire. PE29 6XU www.anglianwater.co.uk Our ref: Stat.Con/NFOWF/July2023 2	Site Selection and Assessment of Alternatives	Onshore Archaeology and Cultural Heritage	Noted.	N

NFOWFS3_016_004_130 723	4.14.4 Onshore cable corridor(s) for PEIR: Anglian Water notes the broad corridor connecting the landfall search area to the onshore substation zone, which will accommodate any temporary works for both NFOWF and VEOWF, temporary construction compounds and corridor flexibility. In retaining corridor flexibility around Thorpe-le-Soken and adding the temporary construction compounds to the onshore cable corridor; the approach taken avoids direct interfaces with our assets. The closest corridor option to Thorpe-le-Soken is therefore closest to our water recycling network but does not appear to intersect with our below ground wastewater network assets. Should this option be taken forward following the ongoing refinement of options to a final onshore cable route, we would seek to require Protective Provisions specifically to ensure Anglian Water's services are maintained and retained apparatus protected during construction. However, we welcome the acknowledgement in the PEIR that the cable corridor has been broadened to accommodate the necessary stand-off distances	Site Selection and Assessment of Alternatives	Onshore Archaeology and Cultural Heritage	Following ongoing onshore cable route refinement since PEIR, the onshore cable route closer to Thorpe-le-Soken has been selected due to the environmental constraints associated with the alternative options near Hamford Water (see section 4.9.4.2 of ES Chapter 4, Site Selection and Assessment of Alternatives). NFOW note Anglian Water have raised the possible interaction of an access track with existing Anglian Water assets, and will seek to continue discussion with Anglian Water regarding protective provisions within the DCO.	Y
NFOWFS3_016_005_130 723	requested by utility companies. VOLUME 1, CHAPTER 5: PROJECT DESCRIPTION 5.8.4.4 Drainage: Anglian Water notes that this section states that a surface water drainage system would be required for the operational substation. Anglian Water would welcome a design that follows the drainage hierarchy in seeking to manage surface water through sustainable drainage systems, and only seek a connection to a public sewer when	Project Description		A Outline Operational Drainage Strategy (document reference 7.19) has been developed for the Project, which includes SuDS to manage runoff from the Project. The Outline Operational Drainage Strategy identifies that there are no public sewers in the vicinity of the substation (according to the Anglian Water sewer records), so it will not be possible to make a foul connection to a public sewer. A septic tank is therefore proposed for the substation site. The size of the septic tank will be confirmed during the post-DCO design stage.	Y

	all other options are demonstrated to be impracticable. The PEIR states that the full specification for water attenuation and drainage system, plus any foul drainage connection to a public sewer system (if available) would be addressed as part of detailed design post consent. If a connection to a public sewer is therefore a possibility, Anglian Water would wish to be included as a consultee in the Schedule of Requirements that specifically concern surface water and foul water drainage.			
NFOWFS3_016_006_130 723	We would also seek clarification whether a connection to our wastewater network will be required for any of the temporary construction compounds (TCC) and advise that early discussions should take place with our predevelopment team regarding capacity of our network and assets to accept wastewater flows from the proposed TCC sites.	Project Description	There is no intention to connect to the wastewater network at any of the TCCs at this stage, with all wastewater generated from welfare facilities proposed to be removed from site and treated at a permitted waste treatment facility.	N
NFOWFS3_016_007_130 723	CHAPTER 18 INFRASTRUCTURE AND OTHER USERS 18.5.3 Anglian Water welcomes the PEIR identifying that there is a surface water sewer outfall pipe located within the landfall search area to the north east of Frinton Golf Course. However, figure 22.6 also identifies a foul sewer from Great Holland to a sewer pumping station (FRINTON-HOLLAND ROAD] and further sewers on the edge of Frinton on Sea.	Infrastructure and Other Users	Noted.	Z

NFOWFS3_016_008_130 723	CHAPTER 19 GROUND CONDITIONS AND CONTAMINATION 19.3.3 Summary of mitigation embedded in the design: The mitigation measures outlined regarding contaminated land and groundwater references that wastewater arising from potential areas of contamination within the PRA or encountered through construction works, or groundwater from dewatering activities would be collected prior to discharge. This goes on to state that discharge of the wastewater shall either be to a foul sewer under a trade effluent agreement or to a surface water body. Anglian Water as the statutory sewerage undertaker, would welcome further discussion regarding such matters, and would seek to ensure that we are adequately consulted on any connections to our network, including through the Expert Topic Group proposed in Chapter 21.	Ground Conditions and Contamination	Ongoing consultation with Anglian Water will be undertaken as part of the DCO application process to ensure the appropriate agreements are in place prior to the commencement of construction works.	Z
NFOWFS3_016_009_130 723	CHAPTER 21 WATER RESOURCES AND FLOOD RISK 3 Anglian Water welcomes reference to our Scoping Response in Table 21.1 regarding impacts on our sewer network and that matters relating to the Construction Surface Water and Drainage Plan will be developed as part of the Code of Construction Practice (CoCP). Whilst an outline CoCP will be included as part of the DCO application, Anglian Water requests that we are consulted on the CoCP when this is prepared post-DCO consent, particularly if connections are likely to be required to our assets. Anglian Water confirms that we would welcome further engagement	Water Resources and Flood Risk	The Outline Operational Drainage Strategy (document reference 7.19) identifies that there are no public sewers in the vicinity of the substation (according to the Anglian Water sewer records), so it will not be possible to make a foul connection to a public sewer. A septic tank is therefore proposed for the substation site. The size of the septic tank will be confirmed during the post-DCO design stage. Interested parties will be able to provide feedback on the Outline Code of Construction Practice (document reference 7.13) as part of the examination process.	Y

	through an Expert Topic Group to consider any impacts on our existing infrastructure. Table 21.3 Embedded mitigation measures:			
NFOWFS3_016_010_130 723	Surface Water: Anglian Water notes that we may potentially be consulted should a connection to our drainage infrastructure should be required for surface water runoff following construction of the cable corridor and particularly the onshore substation. Anglian Water would request that we are consulted when the Operational Surface Water and Drainage Plan is developed, unless it is demonstrated through the Environmental Statement that surface water drainage will be managed through SuDS or alternative means that do not require a connection to our network.	Water Resources and Flood Risk	A Outline Operational Drainage Strategy (document reference 7.19) has been developed for the Project, which includes SuDS to manage runoff from the Project. The strategy identifies that a septic tank would be used at the substation, so it is not anticipated that sewerage connection will be required.	Y
NFOWFS3_016_011_130 723	Supply of contaminants (construction and operational maintenance phases): It is stated that foul drainage will connect to a mains (public) sewer if a connection is available or collected and disposed of at a facility with capacity within its existing permit. Anglian Water suggests that discussions are undertaken with our pre-development team when reasonably practicable.	Water Resources and Flood Risk	The Outline Operational Drainage Strategy (document reference 7.19) identifies that a septic tank would be used at the substation, so it is not anticipated that sewerage connection will be required.	Y

NFOWFS3_016_012_130 723	21.5.5 Utilities: Anglian Water notes that the only sewerage mains within the project area are located within the landfall area of the onshore project area, immediately west of Frinton-on-Sea. However, the limits of the project area (Fig 22.6) also include a sewer from Great Holland to the pumping station at Frinton-Holland Road. The proposed route is in proximity to our water recycling catchments at Thorpe-le-Soken (dependent on selected route option) and Kirby Cross. The mitigation for flood risk incurred by the construction of the onshore cable corridor should therefore ensure that any risks to our wastewater networks are mitigated for – e.g. do not result in increased risk of sewer flooding events.	Water Resources and Flood Risk	The outfall interacts with a proposed access route into the landfall, rather than the landfall itself. The foul sewer running from Great Holland to the sewer pumping station does not appear to directly interact with the DCO Limits or the Project. The Outline Operational Drainage Strategy (document reference 7.19) identifies that a septic tank would be used at the substation, so it is not anticipated that sewerage connection will be required. Drainage strategies and flood risk are considered in Appendix 21.3, Flood Risk Assessment (Volume III), of the ES (document reference 3.3.29).	Y
NFOWFS3_016_013_130 723	APPENDIX 21.3 FLOOD RISK ASSESSMENT (FRA) Flooding from Sewers: It is noted that the FRA identifies that there is a limited foul sewer network within proximity of the onshore cable corridor and that the risk from sewer flooding is considered to be low. Anglian Water notes the reference to the Tendring SFRA DG5 register of sewer flood events, and this dates from 2009. We would encourage the FRA to use more recent data to ensure that the Environmental Statement has more accurate information in this regard. Furthermore, as identified in relation to Chapter 21, it is also the risk of flooding from the construction project on our own assets that should be considered and addressed as appropriate through the Outline CoCP and final CoCP. 7.5 Onshore Substation Operational Surface Water Drainage: It is noted that an	Water Resources and Flood Risk	Noted.	N

	Outline Operational Drainage Plan will provide details of the proposed surface water drainage design confirming that sufficient storage will be provided to attenuate surface water and discharge at a controlled rate during surface water events following the SuDS hierarchy. Anglian Water would wish to be consulted on the details of the operational drainage at the onshore substation when this is developed in consultation with Essex County Council (as the LLFA) and the Environment Agency; particularly regarding the final proposed approach for discharge of water from the site.			
NFOWFS3_016_014_130 723	CHAPTER 22 LAND USE AND AGRICULTURE 4 Anglian Water notes that paragraph 155 states that protective provisions and/or side agreements will be agreed with affected utilities as part of the DCO application process and that NFOWF will undertake utility crossings or diversions in accordance with the appropriate industry standards for such crossings. We have provided NFOWF with our template protective provisions and would welcome further discussion on these and other matters raised through the statutory consultation. In conclusion, Anglian Water would want to minimise any disruption to customers and cost to the project of diverting, relocating and provision of wastewater pipelines and infrastructure, and certainly the onshore route and identified project areas have limited impact on our assets. It is noted that there is a wide corridor selected for the grid connection	Land Use and Agriculture	Noted.	N

	route which should provide sufficient latitude to deliver the necessary pipeline diversions or connections for construction and coordination with the VEOWF. Further engagement would serve to enable pre submission agreement on Protective Provisions for our assets and the submission of an agreed Statement of Common Ground with Anglian Water. This in turn reduces the Examining Authority questions for statutory undertakers and removes the possible need for changes to the project during Examination.				
NFOWFS3_017_001_130 723	Dear Sir/Madam, North Falls Offshore Wind Farm development consent order (DCO) Consultation: Section 42 and Section 48 of the Planning Act 2008. I write in respect of the above consultation under Section 42 and Section 48 of the Planning Act 2008 associated with the North Falls Offshore Wind Farm proposal. Having considered the details of the consultation, I can confirm that Network Rail wishes to make the following comments. Network Rail is a statutory undertaker responsible for maintaining and operating the railway infrastructure and associated estate. It owns, operates, maintains and develops the main rail network. Network Rail aims to protect and enhance the railway infrastructure therefore, any proposed development which is in close proximity to the railway line or could potentially affect Network Rail's specific land interests will need to be carefully considered. Impact on Network Rail	Traffic and Transport	Technical Consultation	Noted.	N

Infrastructure The proposed North Falls scheme may affect Network Rail level crossings in the surrounding area of the onshore cable route. The Applicant must engage with Network Rail to discuss potential impacts.		

NFOWFS3_017_002_130 723	Consideration will need to be given to the potential increase in Pork Lane level crossings usage due to large construction vehicles. Network Rail Infrastructure Limited Registered Office: Network Rail, One Eversholt Street, London, NW1 2DN Registered in England and Wales No. 2904587 www.networkrail.co.uk	Traffic and Transport	The Applicant considers that Network Rail have misinterpreted the PEIR documents and offers the following clarifications. The extents of the TTSA are detailed in section 27.3.1 of Chapter 27 Traffic and Transport (Volume I) (document reference 3.1.29) of the ES. It can be noted from section 27.3.1 that no traffic is proposed to be routed via Pork Lane. Section 27.6.1.5 of this chapter includes an assessment of potential road closures and does not identify Pork Lane as a possible diversion route. Section 27.3.3 of this chapter describes the proposed access strategy and identifies that HGV traffic travelling to the accesses on the B1032 will be routed from the south, i.e. avoiding the level crossing at Kirby Cross to the north.	N
NFOWFS3_017_003_130 723	The level crossing at Pork Lane may not be directly affected. However, road closures within the area may lead to increased traffic and uncontrollable risks at level crossings on the diversion route. Details of any proposed road closure should be provided and assessed as necessary.	Traffic and Transport		

NFOWFS3_017_004_130 723	The planned route for HGVs is via the B1033 through Thorpe-le-Soken and Kirby Cross, then to the B1032 towards Great Holland. The railway over bridge at Kirby Cross has a restricted height below the usual standard (16ft 6in/5m) at just 13 feet 3 inches, or 4.04 metres. If the large HGV tipper trucks and, or low-loaders conveying plant, which are likely to be used, may not pass under the bridge, they will likely use Pork Lane, the narrow country lane which has an Automatic Half Barrier (AHB) level crossing. The layout of the AHB and approach roads are not suited to multiple large HGVs as the roads are narrow, and a sharp curve can cause blocking back if two large vehicles meet simultaneously. The crossing has a height restriction of 16ft 6in/5m and is subject to a risk of grounding, requiring all long low and slow vehicles to call the signallers for permission to cross.	Traffic and Transport		
NFOWFS3_017_005_130 723	Page 85 of the report states that the expected HGV traffic on Pork Lane in 2026 is expected to be 154, with the works having a daily increase of 104 HGVs. The most recent 9-day traffic survey undertaken in June 2022 by IDASO recorded just 25 HGVs per day, most of which are ECC/Viola waste trucks servicing the newly constructed recycling centre and which do not fit under the bridge at Kirby Cross. Therefore, the projected increase by the works of HGVs traverses would be over 200%. The mentioned matters are not included in the transportation report and should be evaluated and raised as a risk. The developer would need to provide	Traffic and Transport		

		Network Rail with a more detailed map of the construction traffic proposed routes. Mitigation measures may be required to address any adverse impact on the level crossing. North Falls Limited will therefore need to engage with Network Rail regarding the proposed scheme and associated transport report. Network Rail Infrastructure Limited Registered Office: Network Rail, One Eversholt Street, London, NW1 2DN Registered in England and Wales No. 2904587 www.networkrail.co.uk				
NFOWF 723	FS3_017_006_130	An Asset Protection Agreement is required to be signed before proceeding with any design or construction work alongside, above or below Network Rail's Infrastructure. The trenching project and tunnelling works beneath the railway will be overseen by ASPRO to safeguard railway assets. Prior to any development/construction or alterations to the site by North Falls Limited, further site-specific safety requirements, engineering technical approval and detailed conditions will need to be sought from Network Rail's Anglia Asset Protection team (asproangliage@networkrail.co.uk) . The process for obtaining approval is outlined on Network Rail's web page hiips://www.networkrail.co.uk/running-the-railway/looking-after-the-railway/asset-protection-and-optimisation/.	Traffic and Transport	Project Description	Noted.	N

NFOWFS3_017_007_130 723	Network Rail have standard protective provisions which will need to be included in the DCO as a minimum. North Falls Limited should therefore contact Tony Ridley, email: tony.ridley@networkrail.co.uk to request a copy of these and to discuss any other agreements that will need to be entered into with Network Rail. A number of legal and commercial agreements will need to be entered into, for example, asset protection agreements, method statements, connection agreements and all other relevant legal and commercial agreements. This list is not exhaustive and will need to be reviewed once more scheme details are discussed between the parties. Thank you again for allowing Network Rail to comment on this consultation. I trust that the comments above are clear, but if you require any further information or have any queries, do not hesitate to contact me.	Policy and Legislative Context	Technical Consultation	Noted.	N
NFOWFS3_018_001_140 723	Dear Mr Harper North Falls Offshore Wind Farm Section 42 of the Planning Act 2008 - Preliminary Environment Information Report Thank you for your email dated 15 May 2023 inviting comments on the Preliminary Environment Information Report (PEIR) for the proposal to construct and operate the North Falls Wind Farm. The MCA's remit for offshore renewable energy development is to ensure that safety of navigation is preserved, as progress is made towards government targets for renewable energy. This response is focused on the shipping and	Shipping and Navigation		Noted.	N

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	navigation elements of the PEIR and will form the basis of our response to the Environmental Impact Assessment Report in due course.			
NFOWFS3_018_002_140 723	Chapter 15.1 Navigation Risk Assessment (NRA) The proposed area has very high concentrations of commercial, recreational and fishing traffic which includes vessels transiting to and from major UK and international ports. This is evidenced by the results of the 56- day vessel traffic survey in winter 2022 and summer 2022 which recorded 151 transits per day during the winter period and 167 transits per day during summer period. We note that a Hazard Identification (HAZID) workshop has not yet been undertaken and the results of which has not informed any conclusions on risk tolerability. When a date is finalised for the HAZID workshop we would recommend that representatives from the Belgian Maritime Administration are invited (we can provide the appropriate contact details). The NRA does include a preliminary Risk Control Log in Annex 3, however the Residual Impacts are not accepted at this stage since the assessment is incomplete, no risk controls are proposed, and it is an assessment on 'impacts', not navigational hazards.	Shipping and Navigation	Hazard Workshop details are provided in the Appendix 15.1 Navigational Risk Assessment (Volume III) (document reference 3.3.16) noting the Belgian National Authority for Maritime Safety was in attendance. Impacts have been assessed via the Formal Safety Assessment (FSA) in Section 15.6 of ES Chapter 15 (Shipping and Navigation).	N

NFOWFS3_018_003_140 723	The proposed southern array area encroaches into the SUNK TSS Precautionary Area and is adjacent to two Traffic Separation Schemes. The encroachment into the Precautionary Area, which is an IMO-adopted routeing measure, is unacceptable to MCA as it would interfere with the use of recognised sea lanes essential to international navigation. The distance between the SUNK TSS South and the wind farm boundary is approximately 120 metres which does not meet MCA expectations of a two nautical mile separation distance as per MGN654 Annex 2. The distance between the SUNK TSS East and the boundary is less than half a nautical mile which also does not meet MCA expectations and guidance.	Shipping and Navigation		The refinement of the offshore array area post PEIR (as per Section 15.3.2 of ES Chapter 15, Shipping and Navigation) has removed the overlap with the Outer Precautionary Area. Distances from the structures to the local routeing measures is assessed and considered in Section 15.6 of ES Chapter 15, Shipping and Navigation. The array area has been refined in response to the PEIR feedback. The northern array has been removed and the southern array area reduced in size. Further details on the consultation with shipping stakeholders and responses to stakeholder comments are provided in Chapter 15 Shipping and Navigation (Volume I) (document reference 3.1.17). Consultation has been undertaken with the Belgian Authorities to discuss the Galloper Recommended Ferry Route. This process will be progressed at the appropriate time with the IMO in consultation with the relevant stakeholders as the Project moves forward. Detailed assessment of the Galloper Recommended Ferry Route is provided in the Appendix 15.1 Navigational Risk Assessment (Volume III) (document reference 3.3.16). Section 42 feedback and further liaison has been used to refine the PDE including the complete removal of the northern array (Section 15.3.2 of ES Chapter 15, Shipping and Navigation). Chapter 15 of the ES (Shipping and Navigation) also provides details on consultation with the	Y
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			Delaien Authorities on the Colleges Decommended	
NFOWFS3_018_004_140 723	The southern array area is proposed over an international Recommended Route (Galloper route) for ferries between UK and Belgium. It would require agreement, at least in principle, with relevant operators, ports and IMO members, in particular the Belgian maritime administration, to remove the ferry route from the routeing measure. If agreement cannot be reached MCA would not be able to support a proposal to remove the Recommended Route and, in all likelihood, it will result in objections to the proposed development. It is important to note that the route is also used by smaller vessels, including recreational and wind farm support vessels, and should consent be granted the array would force these smaller vessels into the main channel of the SUNK TSS South used by larger commercial vessels.	Shipping and Navigation	Belgian Authorities on the Galloper Recommended Ferry Route and plans for future consultation.	Y
NFOWFS3_018_005_140 723	The proposed northern array is located at the end of the SUNK TSS North and encroaches into the route where vessels exit the TSS. This western section of the northern array, located at the end of the TSS Separation Zone, would force vessels further west and restrict the available sea room. It would remove the safety clearance between the traffic exiting the TSS and Greater Gabbard wind farm. This section of the northern array is unacceptable to MCA as it would interfere with the use of a recognised sea lane essential to international navigation.	Shipping and Navigation		Y

NFOWFS3_018_006_140 723	Chapter 15 Shipping and Navigation The shipping and navigation chapter of the Preliminary Environmental Information Report (PEIR) and the likely impacts on maritime navigation is informed by the Navigation Risk Assessment. There should be sufficient information on which to draw conclusions on the tolerability of navigation risks, however the PEIR has been presented to MCA and other navigational stakeholders prior to a HAZID workshop and therefore there has been insufficient consultation at this stage. We feel that since the NRA is incomplete the PEIR does not contain enough information for consultees to fully assess the significant environmental effects of the development.	Shipping and Navigation	Technical Consultation	Noted.	N
NFOWFS3_018_007_140 723	Conclusion The comments detailed above are considered appropriate and necessary for the safety of navigation, Search and Rescue, and vessel traffic management purposes. MCA has significant concerns on the acceptability of navigational risks created by the proposed wind farm arrays. These can only be mitigated by significant amendments to the wind farm boundaries to avoid the impacts to internationally and strategically important shipping routes. MCA is keen to engage and provide further comments as the project progresses.	Shipping and Navigation	Site Selection and Assessment of Alternatives	Noted.	N

NFOWFS3_019_001_140 723	Dear Sue, Proposed application by North Falls Offshore Windfarm Limited for a Development Consent Order for the proposed North Falls Offshore Windfarm, an extension to the operational Greater Gabbard Offshore Wind Farm located off the Tendring Coast, Essex. Tendring District Council (TDC) has been working with Essex County Council (ECC) to provide technical input into the full planning process for the North Falls development and this response should therefore be considered in conjunction with representations from Essex County Council – including comments on the Preliminary Environmental Information Report (PEIR). The proposed route corridor for this project assumes a 132kV underground connection will be made to the proposed 400kV Norwich to Tilbury powerline and a new substation in the Lawford/Ardleigh/Great Bromley area. It is also assumed that a separate customer sub-station serving the North Falls development is likely to be located close to the new 400kV substation. Tendring District Council along with all other authorities in Essex and many in Suffolk and Norfolk has previously made representations to National Grid raising strong objections to the Norwich to Tilbury proposal. With these objections in mind, this Council cannot support any proposal to connect the Five Estuaries Offshore windfarm to the electricity network via the proposed Norwich to Tilbury substation.	Need for the Project	Site Selection and Assessment of Alternatives	It is not unusual for energy generation projects to progress the DCO application process in advance of consent for the transmission into the national electricity distribution network being granted. The Applicant has a grid connection agreement in place to connect into the proposed East Anglia Connection Node. The Applicant is also participating in the UK Government's offshore coordination scheme and as such has included an onshore and offshore connection option as part of its DCO application. These connection options are described in Chapter 5 Project Description of the ES (document reference 3.1.7). Ultimately, the Applicant is focused on its own programme and commitment to be operational by the end of the decade.	N .

It is the clear preference of this		
Council, along with many others in		
the region, that the Norwich to		
Tilbury powerline should have an		
offshore centred approach. This		
would enable the connection of the		
Five Estuaries Offshore Windfarm		
without the need to pass through		
and beneath land in Tendring –		
avoiding the severe damage,		
complication and disturbance it		
would cause.		
The Council considers this		
application for a DCO is premature		
because it is wholly predicated on		
the draft proposals for Norwich to		
Tilbury obtaining consent. This		
proposal from National Grid has		
not yet reached statutory		
consultation stage and there are		
serious objections to that proposal		
that have not yet been resolved.		
The Electricity Supply Office (ESO		
is currently conducting a review of		
the Norwich to Tilbury project to		
identify alternative options, which		
include the consideration of		
offshore routes to address the		
capacity issues. These will be		
assessed in terms of benefit and		
cost for each option. Until this		
review is complete TDC is unable		
to support the current proposed		
North Falls extension.		
If the outcome of the review		
recommends the Norwich to		
Tilbury project goes ahead in its		
current proposed form, the		
corresponding DCO application is		
successful, and ergo the North		
Falls extensions are deemed able		
to proceed then TDC will		
rigorously seek to ensure the best		
outcomes for the District and the		
success of the project. This		
Council will pursue measures to		
minimise the environmental impact		
and disturbance to residents and		
maximise the prospect of local job		
creation and other local benefits to		

	soften and mitigate the substantial harm that is clearly going to be caused.				
NFOWFS3_019_002_140 723	OFFSHORE The Tendring coastline has existing offshore windfarms, this Council does not object to the offshore elements of the proposals which are an extension of what is already in place.	Need for the Project		Noted.	N
NFOWFS3_019_003_140 723	Indeed, the Council recognises the great benefits of offshore wind – not only in the generation of clean energy in the face of a climate emergency, but also in the provision of jobs in the	Climate Change	Socio-economics	Noted.	N

	construction, maintenance and servicing of the turbines and the potential for Harwich to play an important role in supporting that industry.				
NFOWFS3_019_004 723	It is the onshore implications that are of greatest concern to the Council. From Tendring District Council's perspective, it firmly believes that much greater consideration should be given to an offshore powerline route that would avoid the need for the cables to make landfall through / under the SSSI and LNR designations. Whilst the grounding of the cables through the SSSI / LNR would bring about temporary disruption that could be mitigated over time, it would also cause significant damage to the area and greatly affect the tourism industry during the construction period. These issues could all be resolved through a route around the coast as suggested in this and previous responses. The Council will not accept the need for the onshore elements of the North Falls scheme until such time that the alternative offshore route has been properly considered and duly discounted through a full and transparent process for Norwich to Tilbury.	Site Selection and Assessment of Alternatives	Onshore Archaeology and Cultural Heritage	National Grid has provided the Applicant with a grid connection location for North Falls in the vicinity of Ardleigh, Essex. However, the Applicant is committed to working with DESNZ to explore grid connection options and as such, the Applicant has co-operated with the Offshore Transmission Network Review (OTNR) process. In addition, the Applicant has applied to the OCSS in consortium with NGET and Five Estuaries for an offshore connection to Sea Link, a marine cable between Suffolk and Kent proposed by NGET as part of their Great Grid Upgrade. The scheme is expected to run until March 2025, at which point a decision will then be made on the viability of the alternative connection option proposed. Therefore, radial transmission to an onshore connection location must be included in the North Falls DCO application. This is addressed in Chapter 4 Site Selection and Assessment of Alternatives (Volume I) (document reference 3.1.6), Chapter 32 Tourism and Recreation (Volume I) (document reference 3.1.34), and Chapter 23 Onshore Ecology. Impacts on Holland Haven Marshes SSSI are assessed in Section 32.6.1.1 of Chapter 23 Onshore Ecology (document reference 3.1.25). No significant effects are predicted on the Holland Haven Marshes. Cumulative effects with Norwich to Tilbury are assessed in Chapter 23 Onshore Ecology.	N
NFOWFS3_019_005 723	_140 ONSHORE There are a multitude of concerns that TDC has in relation to the onshore elements – as have been raised by local residents, debated by elected Councillors and shared by neighbouring authorities and other partners.	Site Selection and Assessment of Alternatives		Noted.	N

NFOWFS3_019_006_140 723	As mentioned in previous responses, the prospect of the onshore elements of this project is generating considerable anxiety in our communities. Namely the large-scale, intrusive physical onshore infrastructure in the form of substations in sensitive locations and the disturbance and environmental impact of development along the route. These relate as much to the construction phases as they do to the operational phase.	Site Selection and Assessment of Alternatives	Landscape and Visual Impact Assessment (LVIA)	Noted.	N
NFOWFS3_019_007_140 723	The proximity of the development and associated construction activity to homes genuinely runs the risk of undermining public support for off-shore wind and other means of generating clean, renewable energy. This could be damaging to the government's ambitions around zero carbon and the fight against climate change which is of imperative importance to all residents and future generations.	Climate Change		The onshore Project area and onshore substation works area have been defined following an extensive site selection process, which has sought to take account of landscape and visual, other environmental, engineering, planning and land requirements to seek to identify the Project location. The site selection process is described in detail in Chapter 4, Site Selection and Assessment of Alternatives (Volume I) of the ES (document reference 3.1.3206). The site selection process has included consideration of the following landscape and visual criteria as part of the process: - Baseline landscape character and landscape susceptibility to change; - Landscape designations; - Principal visual receptors; and - Physical suitability of the site and potential for mitigation. Cumulative landscape and visual impacts have been considered in Section 30.8 of Chapter 30, Landscape and Visual Assessment, of the ES (document reference 3.1.32)	N
NFOWFS3_019_008_140 723	With regard to the location of the proposed substations, Tendring District Council is still concerned about the potential land-take and height of these structures.	Landscape and Visual Impact Assessment (LVIA)		Section 27.3.3 of Chapter 27 Traffic and Transport (Volume I) (document reference 3.1.29) of the ES outlines a package of embedded mitigation measures to reduce the impact of the Project's construction traffic to the onshore substation upon the most sensitive communities and to minimise	N

NFOWFS3_019_009_140 723 NFOWFS3_019_010_140 723	The poor road access, via narrow country lanes will be irreversibly damaged during the construction process and will cause significant disturbance to a rural community where the road infrastructure is not designed to accommodate such activity. These concerns are magnified by the fact that the clustered option means two other substations, including the 400kV Norwich to Tilbury substation might also be located within close proximity — completely transforming the character and enjoyment of this relatively untouched part of	Traffic and Transport Site Selection and Assessment of Alternatives		travelling via narrow roads, including: • A temporary haul road from Bentley Road to the onshore substation, facilitated by new temporary crossings of narrow roads; • Widening of the junction of Bentley Road and the A120; • Widening of Bentley Road; and • Provision of a new temporary footway/cycleway along Bentley Road. Section 27.6 of Chapter 27 Traffic and Transport (Volume I) outlines that with this package of embedded mitigation measures there would be no significant residual traffic and transport effects.	
NFOWFS3_019_011_140 723	Tendring's rural heartland. The Council, as previously stated, is extremely concerned about the health risks posed to residents within proximity to electromagnetic fields - as demonstrated through considerable research and peer-reviewed scientific data in relation to childhood cancer. There will be considerable noise emanating from substations - again raising concern about proximity to people's homes. The sterilisation of agricultural land along the route of the underground power connections seems to have been given little weight in consideration of the preferred options for both Norwich to Tilbury and, consequently, this project – which could be avoided through achieving an offshore solution.	Human Health	Land Use and Agriculture	Operational noise impacts from the proposed onshore substation have been assessed, as reported in Section 26.6.2 of ES Chapter 26 (Noise and Vibration). The assessment of cumulative effects of operational noise from all three substations is reported in Section 26.8.3.1.3 of ES Chapter 26 (Noise and Vibration) and residual effects are not significant. Electric and magnetic fields (EMF) are considered in Section 28.6.3.2 of ES Chapter 28 (Human Health). The effects from noise are presented in Chapter 26 Noise and Vibration (Volume I) (document reference 3.1.28) of the ES and in Section 28.6.1.1 and Section 28.6.3.1 of Chapter 28 (Human Health). This is addressed in Chapter 28 Human Health (Volume I) (document reference 3.1.30) of the ES, Chapter 22 Land Use and Agriculture (Volume I) (document reference 7.14), and in the Biodiversity Net Gain Strategy (document reference 7.22).	N

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NFOWFS3_019_012_140 723	These significant landscape concerns mean there is a clear need for landscape impact and mitigation plans in respect not only of the SSSI and LNR at landfall, but also along the length of the route through the district to either of the proposed substations. The Council appreciates the approach to Biodiversity Net Gain and encourage increases that exceed the current 10% national requirements. The long term commitment (30yrs in line with BNG regs), to the planting around the substation is supported and should be replicated for all other areas of planting that occur as a result of the project. TDC would welcome the inclusion of other stakeholders, such as Essex Wildlife Trust, Farming Wildlife and Agriculture Group when long term discussions on planting maintenance are taking place with landowners along the route. Opportunities to assess any positive contributions that can be made to the Local Nature Recovery Strategy should be assessed.	Land Use and Agriculture	Onshore Ecology	This is addressed in Chapter 28 Human Health (Volume I) (document reference 3.1.30) of the ES, Chapter 22 Land Use and Agriculture (Volume I) (document reference 3.1.24) of the ES, in the OLEMS (document reference 7.14), and in the Biodiversity Net Gain Strategy (document reference 7.22). Impacts on Holland Haven Marshes SSSI are assessed in Section 32.6.1.1 of Chapter 23 Onshore Ecology (document reference 3.1.25). No significant effects are predicted on the Holland Haven Marshes.	N
NFOWFS3_019_013_140 723	If the Council's objections to the scheme are ultimately unsuccessful, TDC insists on there being meaningful dialogue with the promoter – North Falls, to consider a Community Benefit Contribution package for the legacy of the project. There are several community projects that would benefit from funding. A priority for TDC will involve seeking reinforcements to the sea defences and the cycle routes for the affected areas.	Technical Consultation	Socio-economics	The Applicant has on previous schemes supported the communities in which it operates and has committed to work with communities to develop its approach to supporting the local area. At this stage, the details of any community benefit package associated with the Project have not been finalised. The Applicant will engage with local people and groups prior to construction commencing to help shape how the Project can best support the community. The haul road for North Falls is temporary and would be removed upon completion of construction.	N

NFOWFS3_019_014_140 723	There are also potential opportunities arising from the construction of servicing haul roads in affected areas – particularly in locations where such routes could be utilised and/or formalised to provide permanent highway re-enforcements – such as link roads or bypasses that could resolve long-standing traffic issues (for example congestion in Thorpe le Soken village). This would require further consultation with both TDC and Essex County Highways.	Traffic and Transport		
NFOWFS3_019_015_140 723	There are also costed community projects within the district that require funding (Jaywick being just one example), TDC would be happy to share these at an appropriate time. There is however, a much longer-term view whereby the ongoing benefits to North Falls and associated shareholders can be used as part of the social, environmental and corporate responsibility to improve a wide range of community assets.	Socio-economics	Noted.	N
NFOWFS3_019_016_140 723	TDC requests further conversations with the promoter with regards to the socio-economic impacts of the scheme. Given the level of economic investment involved for North Falls we would like to progress the economic benefits in the form of training a local work force in the relevant areas. As a well as the longer-term commitment to apprenticeships for those who are near completion of their higher education and looking to enter the workforce. Further detail on specific schemes that will benefit the employment prospects of the current working and future working population would be of great interest to TDC.	Socio-economics	The Applicant's Outline Skills and Employment Plan (document reference 7.18) sets out how the Applicant intends to maximise the benefits of the Project in relation to key skills and employment.	N

NFOWFS3_019_017_140 723	At present Tourism is a major part of the Tendring economy. As such we would expect to see a full outline of how the impacts on tourism will be mitigated. The Council has concerns that the disturbance not only to the coast and the wider countryside, particularly in the construction phase, will be significant. The tourism industry relies on good trade and repeat custom achieved during a relatively short window of opportunity in the summer months and the works proposed as part of this project will have a substantial impact.	Tourism and Recreation	The existing environment, as described in Section 32.5 of ES Chapter 32 (Tourism and Recreation), notes the volume and value of the tourism economy. Section 32.5 of Chapter 32 also considers the specific characteristics of the local areas most affected by construction works and the embedded mitigation measures proposed within other inter-related topic chapters which may reduce impacts on visitors (noise, traffic and transport etc). Knock on effects on tourism which occur because of effects on transport infrastructure are considered within Section 32.6 of Chapter 32. The worst case approach outlined in Section 32.3.2 of Chapter 3 2considers how the timing of construction activity will relate to the peak tourist season traffic levels and key routes to visitor assets. Potential monitoring requirements are set out in Section 32.7 of ES Chapter 32 (Tourism and Recreation).	N
NFOWFS3_019_018_140 723	TDC expect this to be monitored and further work carried out as necessary, as sites at landfall are popular destinations. The cumulative impacts of the entire project on the transport infrastructure, in particular any challenges around heavy plant traffic impact across the proposed routes at busy times of the year.	Traffic and Transport	Noted.	N
NFOWFS3_019_019_140 723	Seasonal increases as a result of tourism will need to be looked at extremely carefully and mitigated as required.	Tourism and Recreation	Noted.	N
NFOWFS3_019_020_140 723	Taking the wider view of all proposed NSIP projects within the Tendring (Norwich to Tilbury & Five Estuaries Offshore Wind Farm), the Council would expect to see an assessment of the cumulative impacts with other schemes. Both at land fall, along the route and the approach towards the substation in the north of the district - in particular with	Site Selection and Assessment of Alternatives	The potential cumulative effects of North Falls, Five Estuaries and other relevant projects in the region have been considered throughout the ES.	Y

	consideration toward the Dedham Vale AONB.				
NFOWFS3_019_021_140 723	To summarise, in the absence of an off shore centred approach TDC would expect to work toward the following points with North Falls; • Long term commitment to apprenticeships and permanent employment	Socio-economics		The Applicant has on previous schemes supported the communities in which it operates and has committed to work with communities to develop its approach to supporting the local area. At this stage, the details of any community benefit package associated with the Project have not been finalised. The Applicant will engage with local people and groups prior to construction	N
NFOWFS3_019_022_140 723	Establishment of a Community Benefit Contribution package	Socio-economics		commencing to help shape how the Project can best support the community.	
NFOWFS3_019_023_140 723	Fully mitigated proposals to address the impact of the entire project in environmental terms, including but not limited to ecology, visual landscape, Biodiversity Net Gain and the ongoing maintenance	Onshore Ecology	Landscape and Visual Impact Assessment (LVIA)	An OSEP (document reference 7.18) has been developed as part of the DCO process. This provides details of commitments to apprenticeships and permanent employment opportunities. The effect on the volume and value of tourism in Essex and Suffolk is assessed within Chapter 32	
NFOWFS3_019_024_140 723	Fully mitigated proposals to deal with the impact of construction on tourism within the District	Tourism and Recreation		Tourism and Recreation (document reference 3.1.34) of the ES. Physical and mental health impacts on residents	
NFOWFS3_019_025_140 723	Fully mitigated proposals addressing the impacts on residents – (both physical and mental) in the immediate vicinity of construction and the substations	Human Health		are considered in Chapter 28 Human Health (document reference 3.1.30) of the ES. Cumulative effects assessment within Section 0 of the ES considers the impact of Norwich to Tilbury. Embedded mitigation, which will reduce potential	
NFOWFS3_019_026_140 723	Fully mitigated proposals with regard to the impact of construction on the highways along the route and at the substations	Traffic and Transport		negative socioeconomic impacts, is set out in Section 31.3.2. Potential impacts of construction works on traffic and transport are assessed in ES Chapter 27 (Traffic and Transport).	

NFOWFS3_019_027_140 723	Fully mitigated proposals with regard to the impact of this project and the in-combination impacts of North Falls and Norwich to Tilbury. If you require further information on any of the matters raised, please contact the case officer, their details are set out below.	Site Selection and Assessment of Alternatives		Assessments of onshore ecology are addressed in Chapter 23 of the ES (Onshore Ecology) and the Applicant's Biodiversity Net Gain Strategy can be viewed at document reference 7.22. Assessments of the Project's potential lanscape and visual effects are assessed in ES CHapter 30 (Landscape and Visual Impact Assessment).	
NFOWFS3_020_001_140 723	Ref: North Falls Offshore Wind Farm— SECTION 42 CONSULTATION Cadent Infrastructure within or in close proximity to the development Cadent has identified the following apparatus within the vicinity of the proposed works: Intermediate pressure (above 2 bar) Gas Pipelines and associated equipment in land north of Holland Mill Wood. Low pressure (below 2 bar) gas pipes and associated equipment. (As a result it is highly likely that there are also gas services and associated apparatus in the vicinity, these are not shown on plans but their presence should be anticipated) around Thorpe Le Soken and Great Holland.	Infrastructure and Other Users	Onshore Archaeology and Cultural Heritage	Protective provisions for the benefit of gas undertakers have been included in Part 1 of Schedule 14 to the draft DCO. The Applicant will be liaising with Cadent Gas to negotiate and agree bespoke protective provisions and any associated side agreement if required by Cadent Gas.	Y

	Above Ground Installations Note: No liability of any kind whatsoever is accepted by Cadent Gas Limited or their agents, servants or contractors for any error or omission. The above Cadent apparatus is located within the 'the cable corridor' compulsory powers sought to operate this pipeline should not interfere with Cadent's ability to access to maintain and inspect its own pipelines within this area. Where the Promoter intends to acquire land, extinguish rights, or interfere with any of Cadent's apparatus, Cadent will require appropriate protection and further discussion on the impact to its apparatus and rights including adequate Protective Provisions. Where diversions of apparatus are required to facilitate the scheme, Cadent will require adequate land and consents to be included within the Order to enable works and provide appropriate land rights for Cadent to access, maintain and			
NFOWFS3_020_002_140 723	protect apparatus in future Key Considerations: Cadent has a Deed of Grant of Easement for each pipeline, which prevents the erection of permanent / temporary buildings, or structures, change to existing ground levels, storage of materials etc.	Infrastructure and Other Users	Policy and Legislative Context	Y
NFOWFS3_020_003_140 723	Please be aware that written permission is required before any works commence within the Cadent easement strip.	Infrastructure and Other Users	Policy and Legislative Context	Y
NFOWFS3_020_004_140 723	The below guidance is not exhaustive and all works in the vicinity of Cadent's asset shall be subject to review and approval from Cadent's plant protection team in advance of	Infrastructure and Other Users	Policy and Legislative Context	Y

	commencement of works on site. General Notes on Pipeline Safety:			
NFOWFS3_020_005_140 723	You should be aware of the Health and Safety Executives guidance document HS(G) 47 "Avoiding Danger from Underground Services", and Cadent's specification for Safe Working in the Vicinity of Cadent High Pressure gas pipelines and associated installations - requirements for third parties	Policy and Legislative Context	Human Health	Y
NFOWFS3_020_006_140 723	GD/SP/SSW22. Digsafe leaflet Excavating Safely - Avoiding injury when working near gas pipes. There will be additional requirements dictated by Cadent's plant protection team.	Human Health	Policy and Legislative Context	Y
NFOWFS3_020_007_140 723	Cadent will also need to ensure that our pipelines remain accessible thorughout and after completion of the works.	Infrastructure and Other Users		Y
NFOWFS3_020_008_140 723	The actual depth and position must be confirmed on site by trial hole investigation under the supervision of a Cadent representative. Ground cover above our pipelines should not be reduced or increased.	Infrastructure and Other Users		Y
NFOWFS3_020_009_140 723	If any excavations are planned within 3 metres of Cadent High Pressure Pipeline or, within 10 metres of an AGI (Above Ground Installation), or if any embankment or dredging works are proposed then the actual position and depth of the pipeline must be established on site in the presence of a Cadent	Infrastructure and Other Users		Y

	representative. A safe working method agreed prior to any work taking place in order to minimise the risk of damage and ensure the final depth of cover does not affect the integrity of the pipeline.			
NFOWFS3_020_010_140 723	Below are some examples of work types that have specific restrictions when being undertaken in the vicinity of gas assets therefore consultation with Cadent's Plant Protection team is essential: Demolition Blasting Piling and boring Piling and boring Surface mineral extraction Landfliing Trenchless Techniques (e.g. HDD, pipe splitting, tunnelling etc.) Wind turbine installation Solar farm installation Tree planting schemes	Infrastructure and Other Users	Policy and Legislative Context	Y

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	NFOWFS3_020_011_140	Pipeline Crossings:	Traffic and	Infrastructure and		Υ
	723	 Where existing roads cannot be 	Transport	Other Users		
		used, construction traffic should				
		ONLY cross the pipeline at agreed				
		locations.				
		The pipeline shall be protected,				
		at the crossing points, by				
		temporary rafts constructed at				
		ground level. The third party shall review ground				
		conditions, vehicle types and				
		crossing frequencies to determine				
		the type and construction of the				
		raft required.				
		 The type of raft shall be agreed 				
		with Cadent prior to installation.				
		 No protective measures including 				
		the installation of concrete slab				
		protection shall be installed over or				
		near to the Cadent pipeline without				
		the prior permission of Cadent. • Cadent will need to agree the				
		material, the dimensions and				
		method of installation of the				
		proposed				
		protective measure.				
		The method of installation shall				
		be confirmed through the				
		submission of a formal written				
		Prologis Park				
		Central Boulevard, Coventry CV7				
		8PE				
		National Gas Emergency Service				
		method statement from the contractor to Cadent. • A Cadent representative shall monitor any works within close proximity to the pipeline. Cadent Gas Limited Registered Office Ashbrook Court, Prologis Park Central Boulevard, Coventry CV7				

NFOWFS3_020_012_140	New Service Crossing:	Infrastructure and		Υ
723	New services may cross the pipeline at perpendicular angle to	Other Users		
	the pipeline i.e. 90 degrees.			
	Where a new service is to cross			
	over the pipeline a clearance			
	distance of 0.6 metres between			
	the			
	crown of the pipeline and			
	underside of the service should be maintained. If this cannot be			
	achieved			
	the service shall cross below the			
	pipeline with a clearance distance			
	of 0.6 metres.			
	A new service should not be laid			
	parallel within an easement strip			
	A Cadent representative shall			
	approve and supervise any new			
	service crossing of a pipeline. • An exposed pipeline should be			
	suitable supported and removed			
	prior to backfilling			
	An exposed pipeline should be			
	protected by matting and suitable			
	timber cladding			
	For pipe construction involving			
	deep excavation (<1.5m) in the			
	vicinity of grey iron mains, the			
	model consultative procedure will apply			
	therefore an integrity assessment			
	must be conducted to confirm if			
	diversion is required			

NFOWES3_021_001_140 Please find attached Suffolk County Council response to the statutory consultation. Regards. Andy Rutter Development Manager Suffolk County Council (he/ham) 1. Introduction 3. 2. National Policy 1. Introduction 3. 2. National Policy 2. National Policy 3. Soc Energy Infrastructure Policy 4. And Coordinated Offshore Centred Approach Approach 5. Landscape, Seascape and the ACNMB ACOMMINIST Centred Approach 6. Community Benefit and Project Legacy 6. Tourism 6. Tourism 7. Traffic and Transport 7. Traffic and Transport 8. Tourism 9. Traffic and Transport 9. Traffic	 			
	Please find attached Suffolk County Council's response to the statutory consultation. Regards, Andy Andy Rutter Development Manager Suffolk County Council (he/him) 1. Introduction	Introduction	connection location for North Falls in the vicinity of Ardleigh, Essex. However, the Applicant is committed to working with DESNZ to explore grid connection options and as such, the Applicant has co-operated with the Offshore Transmission Network Review (OTNR) process. In addition, the Applicant has applied to the OCSS in consortium with NGET and Five Estuaries for an offshore connection to Sea Link, a marine cable between Suffolk and Kent proposed by NGET as part of their Great Grid Upgrade. The scheme is expected to run until March 2025, at which point a decision will then be made on the viability of the alternative connection option proposed. Therefore, radial transmission to an onshore connection location must be included in the North Falls DCO application. An offshore connection is considered, however an onshore connection must also be included in the DCO application to align with the Project's connection location which has been provided by the National Grid. Refinement of the North Falls array area in response to PEIR feedback, has led to the removal of the northern array area and therefore significantly reduced the impacts on the Suffolk coast and its Areas of Outstanding Natural Beauty (discussed further in Chapter 29 Seascape, Landscape and Visual Impact Assessment (Volume I) (document reference 3.1.34) of the ES. Impacts on socio-economics, tourism and traffic are discussed in ES Chapters 31 (document reference 3.1.33), 32 (3.1.34) and 27 (Volume I) (document reference 3.1.29), respectively. Cumulative effects are assessed in each technical chapter of the ES (Chapters 8 to 33, Volume I).	N

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Maps		
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1. Introduction		
1.1 These comments of Suffolk		
County Council (SCC) are in		
response to the Statutory		
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Consultation stage including the		
'Preliminary Environmental		
Information Report'		
(the PEIR) by North Falls Offshore		
Wind Farm team dated May 2023.		
1.2 The scheme consists of a		
proposed extension to the existing		
Greater Gabbard		
offshore windfarm, located within		
the southern North Sea.		
1.3 The project has the potential		
for up to 72 turbines across two		
separate seabed		
areas with a maximum tip height of		
397 metres above mean high water springs.		
1.4 The SCC electoral divisions		
indirectly affected include the		
following:		
Felixstowe Coastal.		
Felixstowe North and Trimley.		
• • Wilford.		
• • Aldeburgh and Leiston.		
• • Blything.		
• • Kessingland and Southwold.		
• • Lowestoft South.		
• • Gunton.		
• • Pakefield.		
1.5 This representation raises the		
following substantive issues in		
detail below:		
• a) The Council's preference for a		
coordinated offshore centred		
approach.		
b) The need for seascape and landscape impacts and mitigation		
landscape impacts and mitigation		
in respect of the Suffolk coast and its Areas of Outstanding Natural		
Beauty.		

c) The need for the promotor to		
consider community benefit and		
project legacy.		
d) Socio-economic impacts of the		
scheme and seeking further		
commitments to support local skills		
training measures.		
training measures.		
e) Impacts on tourism.		
f) The need to assess traffic and		
transport impacts, including upon		
Suffolk's transport system.		
• a) A full accomment of		
• g) A full assessment of		
cumulative impacts with other		
schemes.		
h) The level of consultation with		
communities in Suffolk by the		
promotor.		
promotor.		
Suffolk County Council Page 4		

NFOWFS3_021_002_140	2. National Policy	Policy and	Noted.	N
723	2.1 The County Council	Legislative		
	acknowledges the need to	Context		
	increase renewable energy	Comesa		
	generation, the increasing demand			
	for new additional generation and			
	the UK Governments legal			
	obligation to achieve Net Zero			
	Emissions by 2050, as supported			
	by research and publications by			
	the Committee for Climate			
	Change. 2.2 National Policy			
	Statement (EN-1) is the			
	overarching national policy			
	statement for energy and was			
	published in July 2011. This sets			
	This sets outs the UK			
	Government's commitment to			
	increasing renewable generation			
	capacity and recognises that, in			
	the short to medium term, much of			
	the new capacity is likely to come			
	from onshore and offshore wind.			
	2.3 National Policy Statement (EN-			
	3) is the UK Government's			
	strategy for renewable energy			
	infrastructure. This statement			
	states that, through the Offshore			
	Energy Strategic Environmental			
	Assessment 2009 (SEA) process,			
	the Government has concluded			
	that there are no overriding			
	environmental considerations to			
	prevent the achievement of the			
	planned 25GW capacity. However,			
	this is subject to mitigation			
	measures being implemented to prevent, reduce and offset			
	significant adverse effects. This			
	figure has now been increased to			
	50GW by 2030.			
	2.4 National Policy Statement (EN-			
	5) is the UK Government's			
	strategy for electricity network			
	infrastructure. This policy			
	statement applies to transmission			
	systems and associated			
	infrastructure (e.g. substations)			
	and sets out the general principles			

that should be applied in the	
assessment of an application for	
development consent. The County	
Council expects the promoter to	
use this policy statement	
effectively to influence their site	
selection for their onshore	
substation in Essex.	
2.5 The Government consulted on	
changes to the suite of Energy	
National Policy Statements in 2021	
(including revised versions on EN-	
1, EN-3 and EN-5) and between	
30 March and 25 May 2023. The	
revised versions of this policy	
guidance may be published later	
this year, before any NSIP	
application has been submitted. If	
so, the new guidance will need to	
be considered during the	
examination process. However, for	
the time being, the existing policy	
framework remains in place.	
namework remains in place.	

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NFOWFS3_021_003_140	3. SCC Energy Infrastructure	Need for the	Technical	Noted.	N
723	Policy	Project	Consultation		
	3.1 The County Council has				
	declared a climate emergency and				
	is therefore predisposed to				
	supporting projects that are				
	necessary to deliver Net-Zero				
	Carbon for the UK. 3.2 The County				
	Council updated its energy				
	infrastructure policy on 16 May 2023, setting out its overall stance				
	on projects required to deliver Net-				
	Zero Carbon for the UK. However,				
	projects will not be supported				
	unless the harms of the project				
	alone, as well as cumulatively and				
	in combination with other projects,				
	are adequately recognised,				
	assessed, appropriately mitigated,				
	and, if necessary, compensated				
	for.				
	Suffolk County Council Page 5				
	, ,				
	3.3 The policy also sets out how,				
	in principle, the County Council will				
	engage and influence other parties				
	to ensure adverse impacts to our				
	communities are understood and				
	addressed by future decisions.				
	3.4 The County Council expects to				
	have comprehensive and effective				
	engagement with developers and				
	their supply chain partners to				
	maximise the local business opportunity, skills inspiration, and				
	employment benefits. Where				
	appropriate, the County Council				
	and developers should promote				
	synergies between projects that				
	enhance these benefits, deliver				
	growth, and attract inward				
	investment.				
	3.5 The County Council will expect				
	projects to deliver appropriate				
	community benefit schemes in				
	addition to the necessary				
	compensation and mitigation,				

including schemes that support the decarbonisation of heat and transport, reduce energy poverty, and improve the climate adaptive resilience of both the natural environment and communities.	

NFOWFS3_021_004_140		Site Selection	Noted.	N
723		and Assessment		
	Coordinated Offshore Centred	of Alternatives		
	Approach			
	4.1 The County Council has a			
	clear preference for a coordinated			
	approach between the different			
	proposed offshore windfarm			
	extension projects and multi-			
	purpose interconnector projects			
	within the vicinity of this project.			
	4.2 The County Council does note			
	that the promotor has identified			
	this project, jointly with the			
	promoters of Five Estuaries,			
	Nautilus and Eurolink, as being			
	within the Early Opportunities			
	workstream of the Offshore			
	Transmission Network Review,			
	and that there are ongoing			
	discussions between these parties			
	and National Grid Electricity			
	Transmission (NGET), under the			
	auspices of the Department for			
	Energy Security and Net Zero.			
	4.3 The County Council considers that the developers of these			
	projects, and East Anglia Green,			
	have not presented a			
	comprehensive and conclusive set			
	of evidence that the transmission			
	objectives of these project cannot			
	be met by combining these			
	offshore wind farms into the multi-			
	purpose interconnectors, to reduce			
	the impact of onshore			
	infrastructure on the terrestrial			
	environment in Essex or Suffolk. If			
	such an offshore solution which			
	could be delivered, in a timely			
	manner, without risking wider Net			
	Zero renewable generation and			
	decarbonisation targets, it would			
	be welcomed by the County			
	Council.			
	4.4 The County Council has			
	separately made objections to			
	NGET's East Anglia Green project			
	on this basis that it does not			

	adequality demonstrate why greater offshore co-ordination would not be feasible to avoid or significantly reduce the need for that project. As noted above, this proposal is reliant upon the Lawford substation, which is part of the East Anglia Green project, for its own connection to the National Grid network. Whilst onshore development to deliver that connection falls in Essex rather than in Suffolk, the socioeconomic and highway impacts of that inshore development are more widely spread and will also affect the local road network and communities and businesses in Suffolk. To that extent, the County Council also has concerns about this project's reliance on an onshore connection and on a component part of the East Anglia Green project.			
NFOWFS3_021_005_140 723	Suffolk County Council Page 6 5. Landscape, Seascape and the AONB 5.1 Given the need for accurate assessment of direct and cumulative impacts, the County Council's view is that the preliminary position of the promoter has not adequately addressed the potential harm on the Suffolk Coast & Heaths Area of Outstanding Natural Beauty. 5.2 The County Council, jointly with East Suffolk Council and the Suffolk Coast and Heaths Area of Outstanding Natural Beauty Partnership, commissioned White Associates to provide an update to the Seascape Sensitivity Study originally commissioned in 2020. The original sensitivity study does	Seascape, Landscape and Visual Assessment (SLVIA)	This is addressed in Chapter 29 SLVIA (Volume I) (document reference 3.1.31) and Chapter 30 LVIA (Volume I) (document reference 3.1.32) of the ES.	N

	not take into account the parameters (larger turbines etc.) of the North Falls project (see Map 1 appended). 5.3 The County Council will provide the developer with a copy of this addendum as soon as work is completed. However, early indications show that the conclusions of the report will be different to that of the opinion provided by the developer. 5.4 Taking this into account, it appears that the north-eastern most portion of the project will have significant impacts on the Suffolk Coast and Heaths AONB. These impacts could be eliminated by this small part of the project being removed. 5.5 The removal of this part would only lead to a reduction in seven turbines.				
NFOWFS3_021_006_140 723	6. Community Benefit and Project Legacy 6.1 Community benefits should be in addition to the required secondary mitigation for the development, including those based on any emerging requirement in the Government's recent consultation on Community Benefits, which the County Council has responded to. 6.2 The County Council encourages the promoter to consider such community benefit options and would be happy to discuss how community benefits suitable for the locality could be incorporated. Given the visual impacts on the Suffolk coast, community benefit must be considered for those affected communities.	Socio-economics	Seascape, Landscape and Visual Assessment (SLVIA)	The Applicant has on previous schemes supported the communities in which it operates and has committed to work with communities to develop its approach to supporting the local area. At this stage, the details of any community benefit package associated with the Project have not been finalised. The Applicant will engage with local people and groups prior to construction commencing to help shape how the Project can best support the community.	N
NFOWFS3_021_007_140 723	7. Socio-Economics and Skills 7.1 Whilst the onshore construction of the project is proposed to be located in Essex, the County Council expects that	Socio-economics		An OSEP (document reference 7.18) has been developed as part of the DCO process. This included engagement with Suffolk County Council. The OSEP is focused on Tendring, the wider Essex and Suffolk.	N

	there will be an impact on the workforce in Suffolk, therefore a coordinated approach on skills is required.			
NFOWFS3_021_008_140 723	7.2 Local partners, including the County Council and the New Anglia Local Enterprise Partnership, share a high-level ambition to ensure energy infrastructure development actively supports a sustainable regional and subregional supply chain, with direct benefits of increased employment, education and training opportunities for residents.	Socio-economics	The Applicant supports these ambitions. The OSEP (document reference 7.18) seeks to maximise the benefits of increased employment, education and training opportunities for residents. Following consent, the Supply Chain Plan (required under the CfD) will consider the potential actions to maximise employment and supply chain benefits.	N
NFOWFS3_021_009_140 723	7.3 Suffolk and its neighbouring counties have a natural geographical advantage, which means that they will play a huge part in achieving the target to reach net zero. Therefore, the cumulative opportunity and negative impacts (such as adverse impacts in the visitor economy, churn, and negative displacement in local employment) of this development must be at the forefront of the promoters thinking, as further details of the project are finalised.	Socio-economics	The Applicant anticipates that there will be no significant effects on socio-economics and there is therefore no need for any additional mitigation to be proposed. The effect of the visitor economy is assessed in Chapter 32 Tourism and Recreation (document reference 3.1.34) of the ES.	N
NFOWFS3_021_010_140 723	7.4 The County Council expects the promoters to deliver a package of training, skills and growth opportunities that engages with local suppliers, contractors, and the whole supply chain strategically across all local and regional projects.	Socio-economics	The OSEP (document reference 7.18) includes consideration of education and training opportunities. The Applicant is committed to continue to work with local stakeholders to maximise local skills and employment benefits of the Project.	N
NFOWFS3_021_011_140 723	7.5 It is anticipated that this project has the potential to be in construction (subject to consent being granted) at the same time as Sizewell C Nuclear Power Station and the Scottish Power Renewables Hub are reaching the peak of their construction employment. Therefore, the	Socio-economics	The cumulative effects assessment within Section 31.8 of ES Chapter 31 Socio-economics (Document Reference: 3.1.33) of the ES considers the effects of a range of cumulative projects including Sizewell C Nuclear Power Station and the Scottish Power Renewables Hub. As part of the assessment close attention has been paid to the scale and timing of workforce requirements, the	N

	promotor could be in a position in which they may find it difficult to secure any home-based labour as these projects will be already well established.			origins of the workforce and accommodation requirements.	
NFOWFS3_021_012_140 723	7.6 The County Council expects this to be taken into account when developing a workforce profile, including origins, and the promoter will require strong evidence to accompany their assumptions.	Socio-economics			
NFOWFS3_021_013_140 723	7.7 The County Council welcomes the proposal for a dedicated outline skills and employment plan as part of the promoter's development consent order application and will require this plan to take a strategic approach to enhance the impact of ongoing activities within the County and the maximise the benefits of the plan.	Socio-economics		A strategic approach has been taken for the production of the OSEP (document reference 7.18) which looks to build on existing interventions activities in the region. North Falls and Five Estuaries have worked and will continue to work together closely to ensure a co-ordinated approach will be taken to skills and employment planning.	N
NFOWFS3_021_014_140 723	7.8 The promoter has assumed that non-local workers will be unlikely to bring additional family members to the local area, the County Council would welcome further clarification of the basis of this assumption.	Socio-economics		Chapter 31 (Socio-Economics) provides additional clarity on the source of the assumption that non-local workers will not bring their families to the study area.	N
NFOWFS3_021_015_140 723	8. Tourism 8.1 Whilst onshore works are proposed to be located in Essex, there is still the potential for onshore works to impact Suffolk. The visual impacts of the offshore elements are reflected through a permanent impact upon tourism on the visitor economy within Suffolk.	Tourism and Recreation		The potential for onshore works to impact on Suffolk are assessed in Section 32.6 of Chapter 32 of the ES (Tourism and Recreation). This includes an assessment of impacts on accommodation in Suffolk.	N
NFOWFS3_021_016_140 723	8.2 The County Council believes that it is vital that projects fully and appropriately consider the character, function and sensitivity of the natural and historic environment and landscape of	Tourism and Recreation	Landscape and Visual Impact Assessment (LVIA)	The existing environment, as described in Section 32.5 of ES Chapter 32 (Tourism and Recreation), sets out the natural and historic environment and landscape within Suffolk and its importance of this to the tourism sector. It also provides data on the value and volume of tourism. This is considered	N

	Suffolk and its importance to a thriving tourism sector.			within the assessment in Section 32.6 of Chapter 32 and the assessment of wider economic effects detailed in Chapter 31 Socio-economics of the ES.	
NFOWFS3_021_017_140 723	8.3 Suffolk offers a rich and varied tourist offer known for its heritage assets and landscape designations, such as, the Suffolk Coast and Heath AONB and Heritage Coast. The County Council expects the applicant to fully assess and evidence direct and indirect impacts on designations. This includes the extent to which the physical infrastructure would detract from the environmental quality for recreation and quantifying the impact of construction on tourism assets and visitor numbers. More broadly, it is also imperative that the project considers its part in the cumulative impact on the perception and propensity of people to visit the area.	Tourism and Recreation	Landscape and Visual Impact Assessment (LVIA)	Section 32.6 of Chapter 32 (Tourism and Recreation) assesses impacts on tourism on the basis of the available literature, the nature of the local visitor offer and the characteristics of visitors and the experiences from other offshore wind projects. It should be noted that the project has been refinedsince the PEIR submission. Section 32.3.2 of Chapter 32 notes how the project design has changed. Importantly this substantially reduces the visual impact and therefore potential for impact on tourism along the Suffolk Coast.	Y
NFOWFS3_021_018_140 723	8.4 Of particular concern are the implications for the Suffolk coast as a visitor destination, and the consequences for the local tourism economy. The impacts on the landscape of the Suffolk Coast and Heaths AONB and the related seascape by reason of the potential height of the offshore elements are already discussed in the Seascape and Landscape section. These impacts have the potential to affect the attractiveness of the area to visitors as well as for local communities.	Tourism and Recreation	Landscape and Visual Impact Assessment (LVIA)	Section 32.6 of Chapter 32 (Tourism and Recreation) assesses impacts on tourism on the basis of the available literature, the nature of the local visitor offer and the characteristics of visitors and the experiences from other offshore wind projects. It should be noted that the project has been refinedsince the PEIR submission. Section 32.3.2 of Chapter 32 notes how the project design has changed. Importantly this substantially reduces the visual impact and therefore potential for impact on tourism along the Suffolk Coast.	Y

NFOWFS3_021_019_140 723	8.5 The County Council is also seeking to ensure that addressing the accommodation needs of construction workers and other non-home-based workers is not detrimental but beneficial to the visitor economy. This could be achieved by aiming for the project related accommodation needs to be complementing the main tourist season (and Autumn/Winter weekend breaks) rather than causing disruption. For example, depending on the timing of the construction work, it could be possible for accommodation to be used in the shoulder months.	Tourism and Recreation	Section 32.6 of Chapter 32 (Tourism and Recreation) considers the reduction in tourist accommodation availability.	N
NFOWFS3_021_020_140 723	9. Traffic and Transport 9.1 The County Council expects traffic and transport impacts to be fully assessed and mitigated, for Suffolk especially in regard to any potential construction traffic impacts on Suffolk's rural road network and the limited options for suitable HGV and Abnormal Intervisible Loads (AIL) routes once the East Anglia Green route alignment has been chosen. 9.2 The County Council will need to be satisfied that there will be no disruption or delays cause by the project on the A12 or wider strategic right network which may then have an impact on businesses in Suffolk.	Traffic and Transport	Section 27.3.1 of Chapter 27 Traffic and Transport (Volume I) (document reference 3.1.29) of the ES details the extents of the TTSA as agreed with the relevant highway authorities. It can be noted that no links extend into the administration area of Suffolk County Council. Section 27.3.1 of this chapter further outlines that routes that extend outside of the TTSA are where construction traffic has dissipated and therefore, significant effects upon users of the highway network are unlikely.	N

NFOWFS3_021_021_140 723	9.3 There should be an Outline Port Construction Management Plan provided to manage traffic impacts that arise at any port as a result of the offshore elements of the proposal.	Traffic and Transport	The preferred base port (or ports) for the offshore construction, operation and decommissioning of the Project is not known and any decision would not be expected until post-consent. Such facilities would be existing or would be provided or brought into operation by means of one or more planning applications or as port operations with permitted development rights. It has therefore been agreed with National Highways (at a meeting on the 7 June 2022) and Essex County Council (at a meeting on the 9 July 2021) to scope out of the assessment the onshore impacts of traffic and transport associated with offshore construction, operation and decommissioning activities. This approach has also been accepted by the Planning Inspectorate for other recently consented offshore wind farm projects, e.g. Norfolk Vanguard and Boreas, East Anglia Two, East Anglia One North and Hornsea Four. For further information, see Chapter 27 (Traffic and Transport).	N
NFOWFS3_021_022_140 723	9.4 Decommissioning and removal routes also need careful consideration.	Traffic and Transport	Section 27.6.3 of Chapter 27 Traffic and Transport (Volume I) (document reference 3.1.29) of the ES includes details of the decommissioning assessment.	N

NFOWFS3_021_023_140		Socio-economics	Site Selection and	Noted. A cumulative assessment of workforce	N
723	10. Cumulative Impacts		Assessment of	supply/demand has been conducted, and is	
	10.1 Given the number		Alternatives	described in 31.8 of ES Chapter 31 Socio-	
	(approximately five NSIPs			economics.	
	reaching statutory consultation				
	stage in 2023/24, with many more				
	at different stages of the process)				
	of Nationally Significant				
	Infrastructure Projects and other				
	developments proposed in the				
	area, the need for a full				
	assessment of environmental and				
	socio-economic impacts of the				
	cumulative effects of the project in				
	conjunction with the other projects				
	is particularly important. 10.2				
	There is a lack of reference to the				
	potential impact on businesses				
	and supply chains of other				
	construction projects in the local				
	area and region due to additional				
	workforce displacement and churn				
	resulting from the project.				
	10.3 The County Council				
	welcomes the commitment from				
	the promoter to undertake an				
	assessment of whether it is				
	considered likely that the				
	cumulative effect indicates a loss				
	of benefit as a result of cumulative				
	projects, or an enhancement of				
	opportunity which would help to				
	develop expertise and capacity in				
	the market.				
	0 "." 0				
	Suffolk County Council Page 9				
	10.4 The above conservat				
	10.4 The above assessment should include a consideration of				
	other infrastructure projects not				
	just similar offshore wind farm				
	projects and identify how any				
	mismatch between supply and				
	demand can be addressed. This				
	cumulative effect assessment				
	would also need to be considered				
	in determining the feasibility and				
	consequential impact of securing a				

greater contingent of local work force and if the number of workers needed from beyond the boundaries of the workforce supply chain area (both positive and negative, including a consideration of displacement and high levels of labour churn in the wider economy). 10.5 The construction period for this project is predicted to occur during the middle of the construction period for Sizewell C Nuclear Power Station. It is anticipated that there would be significant cumulative pressure on the available workforce. This could reduce the opportunities to securing any skills and employment legacy from the construction workforces as the projects could be occurring in		
labour churn in the wider		
parallel.		
10.6 The County Council expects		
the promotor to develop a		
demonstrable understanding of the		
wider development environment		
for their project, and to work with		
the County Council and other		
promoters to manage and mitigate		
these impacts.		

NFOWFS3_021_024_140 723	11. Consultation undertaken by the promotor 11.1 The County Council will be consulted on the adequacy of the promoters consultation by the examining authority once the application for development consent has been submitted. 11.2 The closest offshore elements are located off the coast of Suffolk; therefore it is expected that the promoter engages effectively with communities and stakeholders within Suffolk.	Technical Consultation	Site Selection and Assessment of Alternatives	Noted.	N
	11.3 The developer has not undertaken in person consultation events in Suffolk, even though its sister project (Five Estuaries), which is approximately double the distance offshore (approx. 40km) conducted these in various locations along the Suffolk coast from Felixstowe to Lowestoft. 11.4 When the examination authority consults the County Council on the adequacy of consultation, the County Council will have to assess whether the promoter has undertaken the correct level of consultations, including with rural coastal communities and other hard to reach groups within Suffolk.				
	Maps Map 1: An Extract from Suffolk Seascape Sensitivity to Offshore Windfarms - October 2020 - White Associates - for SCC & the SCHAONB Partnership1 1 hiips://www.suffolkcoastandheaths .org/wp- content/uploads/2020/10/Suffolk- seascape-sensitivity-to-wind- farms-final-061020-003.pdf				

NFOWFS3_022_001_140 723	Ardleigh Parish Council response to North Falls Off-shore Windfarm consulta on July 2023 Our Parish Council has previously responded to consultation by North Falls (in December 2021) having met with a team from North Falls in November 2021. This was before the proposals for the National Grid pylons and substation project (East Anglia GREEN AKA Norwich to Tilbury) were known. The National Grid Proposals would (if implemented) have a profound impact on our Parish and the surrounding areas. We responded to National Grid (June 2022) and to the Five Estuaries consultations (August 2022 and May 2023). Those earlier comments still stand - copies of other responses can be forwarded on request and are published on our website htps://ardleigh.website/pylons-and-substa ons. We would ask that these responses are taken in to account for the current	Introduction	Noted.	N
NFOWFS3_022_002_140 723	consultation. We note the broad opposition to the highly contentious National Grid proposals from many other quarters, including Essex County Council and Tendring District Council and by many thousands of local people and representative bodies across the three counties with over 23,000 people having signed a peon, calling for an offshore grid. Our own MP, Sir Bernard Jenkin, has played a pivotal role as part of the OFFSET group of MP's in galvanising opposion to the current Naonal Grid plans. This project is many years from planning permission, if it succeeds at all. We have seen and endorse the comments on	Need for the Project	Noted.	N

	your current consultation by our neighbours Little Bromley Parish Council.				
NFOWFS3_022_003_140 723	When we met you in November 2021 and as referred to in our initial response, we were given to understand that 'it would be technically possible for some infrastructure to be shared between providers, but that there were commercial and (perhaps) legal/ competition constraints which mean that multiple sites and cabling would be needed. Further, that some of the cabling and infrastructure could be placed offshore, but that this would be more costly and time consuming (and perhaps less commercially viable).'	Policy and Legislative Context	Site Selection and Assessment of Alternatives	Noted.	N
NFOWFS3_022_004_140 723	We were pleased to see an option for an off shore link in your latest consultation. We would strongly support your Opon 3 for the project's Naonal Grid connecon point, an Offshore electrical connecon supplied by a third party electricity distribuon network provider. We are also pleased to see some evidence of atempts at collaboraon and of direct engagement with our Parish Council and with our residents, including holding consultaon events in our Parish (something that Naonal Grid have conspicuously failed to do). We urge you to condue to do so and to work with other providers to seek an integrated off shore soluon, lobbying to remove ardicial constraints which force pylons on to communides when	Site Selection and Assessment of Alternatives	Technical Consultation	The Applicant co-operated with the Department of Energy Security and Net Zero (DESNZ) to explore grid connection options, as part of the Offshore Transmission Network Review (OTNR). In addition, NFOW has applied to the OCSS in consortium with National Grid Electricity Transmission (NGET) VE OWFL for an offshore connection to Sea Link, a marine cable between Suffolk and Kent proposed by NGET as part of their Great Grid Upgrade. The Applicant continues to engage with Government, Office of Gas and Electricity Markets (Ofgem) and other developers to explore the potential options.	N

	other op □ons would be technically				
	feasible and even less costly (par cularly when the human and societal costs are considered). Should these developments be forced upon our communi es, any mi ga on would need to address the impact on those communi es as directly as possible. We are far from this stage, but would welcome public commitments to such legacy investment as early as possible and con nued engagement with local stakeholders at every stage.				
NFOWFS3_022_005_140 723	As previously stated, 'In principle, the Parish Council supports the generation of green energy and is not opposed to the development of off-shore wind farms.' However, we object in the strongest terms to any unnecessary connection onshore in Tendring. This would result in tunnelling beneath the shoreline, trenching to place underground cables through Tendring, and a sub-station near to or within Ardleigh (with further sub-stations needed for National Grid and for other providers). This damaging onshore connection is unnecessary because both North Falls (plus at least two other offshore projects which we know of, ie Tarchon and Five Estuaries) could, and should, connect offshore. National Grid ESO has already carried out advanced scenario testing of offshore coordination options.	Need for the Project	Site Selection and Assessment of Alternatives	Noted.	N
NFOWFS3_022_006_140 723	We now know that the National Grid connection point would be in Ardleigh. We understand that National Grid has offered this connection point to you, and has not offered any alternatives, but we urge you to do the right thing for the environment and communities and to reject National	Site Selection and Assessment of Alternatives	Infrastructure and Other Users	Noted.	N

NFOWFS3_022_007_140 723	Grid's unacceptable offer and work with others to deliver an off shore connection. You will be aware that the connection offered is deeply damaging and disruptive, being in the centre of a proposed 180km pylon route, and adjacent to the AONB where the pylons create a ring of steel around Ardleigh (both underground and overground). Overall we believe that Ardleigh would be uniquely and profoundly affected and would be at the epicentre of a number of infrastructure projects all of which would harm our Parish. Our residents care deeply about their environment and the rural characteristics around our Parish.	Landscape and Visual Impact Assessment	Noted.	N
	This was emphasised during consultation for our Neighbourhood Plan- which has been endorsed by Tendring District and now reached Regulation 17 stage. 'It is the overwhelming view of the people who live and work in the Parish of Ardleigh that it should above all else retain its rural characteristics, including the visual quality of its buildings, open spaces, trees, hedges, footpaths and bridleways There is also a strong sense of community in Ardleigh which should be protected and nurtured throughout all parts of the Parish, including its outlying hamlets' (para 6.29-	(LVIA)		
	6.30 Ardleigh Neighbourhood Plan). More details of the emerging Plan are on the Tendring DC site htps://www.tendringdc.uk/sub-content-pages/ardleigh-neighbourhood-plan or our own site htps://ardleigh.website/our-plan. We consider the proposals by North Falls (unless an off shore connec□on is agreed) and the			

	associated proposals from Na onal Grid to threaten the very things which our residents tell us they value about where they live. We are therefore bound to oppose them.				
NFOWFS3_022_008_140 723	We endorse the concerns raised by our neighbours in Litle Bromley around wildlife and environmental impact. 'The countryside in the affect area has a rich and varied wildlife popula on as iden fied by wildlife surveys. This includes many species of waterbirds and non-waterbirds. We are very close to the Stour Estuary SSI and Ramsar site, and surveys indicate bird species present which are related to those sites. Badgers, hares, foxes, deer, bats and other mammals can be found in the parish. Grass snakes are regular seen in the summer. These all thrive as we have woodland, extensive hedgerows and arable margins some of which will be affected by your planned development. The migratory bird route across East Anglia, the East Atlan crivacy, has gained Government backing to bid to become a UNESCO World Heritage Site. Major developments such as planned by Five Estuaries, North Falls, Na onal Grid and Tarchon, will have serious impact. Poten al exists for protected or notable species to be impacted by construc on ac vies either physically via permanent or temporary habitat loss or by inadvertent injury or killing or from disturbance via light, noise and human presence. There is	Onshore Ecology	Onshore Ornithology	Impacts on named species, mitigation, and how losses are being minimised and avoided are addressed in this ES, namely in Section 23.6 of Chapter 23, Onshore Ecology. Main migratory locations are designated sites and are fully assessed in the HRA and in Chapter 24 Onshore Ornithology (Volume I) (document reference 3.1.26) of the ES. Mitigation measures are also addressed in the OLEMS (document reference 7.14) and Schedule of Mitigation (document reference 2.6).	N

	poten all for permanent habitat fragmenta on and species isola on as a result of four substa on construc on and also from construc on of the cable route. The substa on construc on together with the addi onal temporary construc on compound areas and the cable route during construc on will bring a permanent loss of habitat.			
NFOWFS3_022_009_140 723	There are par cular concerns about the impact on the road and lane network in the areas around the new sub-sta ons and of safety for all users but especially those on foot/ cycling or on horseback along the very narrow lanes, especially but not limited to lanes around the Burnt Heath area of Ardleigh which borders Litle Bromley and Great Bromley. Such concerns would be exacerbated if several substa ons were con guously or closely located. If the exis glanes are used by construc ntraffic we struggle to see how mi ga on could prevent a very significant and negave impact on local residents par cularly those who use the lanes for leisure and could well be prevented from doing so if sharing with HGVs. In other words we fear a loss of village amenity. The North Falls development and associated facilies such as haul roads, temporary constructon compounds and haul road access points will be highly disrupve to day-today community life. Quiet country roads and Public Rights of Way will be affected impac gresidents, walkers,	Traffic and Transport	Section 27.6.1 of Chapter 27 Traffic and Transport (Volume I) (document reference 3.1.29) of the ES presents an assessment of the effects of the Project on of severance, amenity, highway safety and driver delay. With the application of additional mitigation measures (as appropriate) the residual effects upon all receptors was assessed to be not significant in EIA terms, as shown in Table 27-42 of this chapter.	N

	cyclists and horse riders. There are many farms which need access to their proper es and fields at all mes of year, and especially during harvest.			
NFOWFS3_022_010_140 723	In addi□onal we would emphasise local concerns around • Agricultural Land. loss and damage to significant areas of high grade agricultural land- at a □me when food security is of increased concern	Land Use and Agriculture	Impacts on land use and agriculture as assessed in Chapter 22 of the ES (Land Use and Agriculture).	N
NFOWFS3_022_011_140 723	 Landscape and Visual impact. The topography around Ardleigh means there are vast open vistas across produc □ve farmland which could be disfigured forever by proposed pylons and substa □ons 	Landscape and Visual Impact Assessment (LVIA)	Noted. More information on the potential visual impacts of the Project can be found in Chapter 30 of the ES (Landscape and Visual Impact Assessment).	N
NFOWFS3_022_012_140 723	• Opera□onal and Construc□on Noise and Light Pollu□on.	Noise and Vibration	Construction noise and traffic noise impacts have been assessed, as reported in Section 26.6.1 of Chapter 26 (Noise Vibration). Operational noise impacts have been assessed, as reported in Section 26.6.2 of Chapter 26. Cumulative impacts have also been assessed, as reported in Section 26.8 of Chapter 26. Residual noise and vibration effects on residents are considered to be not significant.	N
NFOWFS3_022_013_140 723	Construc⊡on Traffic and Impact	Traffic and Transport	Noted.	N

NFOWFS3_022_014_140 723	Business Impact - With road diversions and closures and large parts of the countryside under development businesses could be seriously affected. We urge you to work with Government and others to connect offshore thus avoiding all of the above negative impacts on the Tendring peninsular in general and Ardleigh in particular.	Socio-economics	Chapter 27 Traffic and Transport (document reference 3.1.29) of the ES assesses the impact of road diversions and closures on road users. The assessment includes a detailed of mitigation being put in place to ensure communities, businesses and other local stakeholders fully understand the scale of change and the embedded mitigations and how they are secured and enforced.	N
NFOWFS3_023_001_130 723	Good afternoon Tom, Many thanks for your e-mail below. I can confirm that Trinity House has the following comments/requests to make at this stage: • Trinity House considers two areas within the red line boundary to be undevelopable. These areas are highlighted as red hatched areas in the attached chartlet. These areas would significantly compromise the safety of vessels using these internationally recognised shipping routes and are therefore deemed unacceptable.	Shipping and Navigation	The array area has been refined in response to the PEIR feedback. The northern array has been removed and the southern array area reduced in size. Further details on the consultation with shipping stakeholders and responses to stakeholder comments are provided in Chapter 15 Shipping and Navigation (Volume I) (document reference 3.1.17) of the ES. The areas of concern have since been removed during the refinement of the array area post PEIR as per Section 15.3.2 of Chapter 15. Distances from the structures to the local routeing measures is assessed and considered in Section 15.6 of Chapter 15.	Y

NFOWFS3_023_002_130 723	We would welcome your earliest possible consultation regarding proposed turbine layouts, as well as the locations of any other infrastructure, as this matter may well require significant work to reach agreement.	Technical Consultation	Site Selection and Assessment of Alternatives	Consultation with shipping stakeholders, including Trinity House has been undertaken throughout the pre-application stage. A hazard workshop was held in October 2023. Further information can be found int he Consultation Report (document reference 4.1). The worst case layout for shipping and navigation has been used throughout the Navigational Risk Assessment (Appendix 15.1, Volume III, document reference 3.3.16) and this Chapter. The final layout will be agreed with MCA and Trinity House post consent as per Section 15.3.4 of Chapter 15 (Shipping and Navigation).	N
NFOWFS3_023_003_130 723	I have attached our most recent standard navigation conditions, which we would expect to be provided for within your DCO/DML.	Shipping and Navigation	Policy and Legislative Context	Noted.	N
NFOWFS3_023_004_130 723	Could you please provide us with the most recent shape files for this project? I hope these comments are helpful and we look forward to working with you throughout this project.	N/A		Noted.	N

NFOWFS3_023_0		Policy and	Shipping and	Noted.	N
723	inclusion within Deemed Marine	Legislative	Navigation		
	Licences (DML) for offshore	Context			
	renewable energy installations.				
	Agreed by Marine Management Organisation (MMO), Trinity				
	House, Maritime and Coastguard				
	Agency (MCA) and UK				
	Hydrographic Office (UKHO)				
	Notifications and Inspections:				
	1) The undertaker must inform the				
	MMO Coastal Office in writing at				
	least 5 days prior to the				
	commencement of the authorised				
	project or any part thereof, and				
	within 5 days of completion of the				
	authorised project.				
	The Kingfisher Information				
	Service of Seafish, must be				
	informed of details of the vessel				
	routes, timings and locations				
	relating to the construction of the				
	authorised project or any part thereof by email to				
	kingfisher@seafish.co.uk :-				
	a) at least 14 days prior to the				
	commencement of offshore				
	activities, for inclusion in the				
	Kingfisher Fortnightly Bulletin and				
	offshore hazard awareness data,				
	and;				
	b) as soon as reasonably				
	practicable and no later than 24				
	hours of completion of all offshore activities.				
	Confirmation of notification must				
	be provided to the MMO within 5				
	days.				
	3) The undertaker must ensure				
	that a local notification to mariners				
	is issued at least 14 days prior to				
	the commencement of the				
	authorised project or any part				
	thereof advising of the start date of				
	each Work No. <insert> and the</insert>				
	expected vessel routes from the				
	construction ports to the relevant location.				
	Copies of all notices must be				
	1 Copies of all flotices flidst be				

provided to the MMO, MCA and		
UKHO within 5 days.		
4) The undertaker must ensure		
that local notifications to mariners		
are updated and reissued at		
weekly intervals during		
construction activities and at least		
5 days before any planned		
operations (or otherwise agreed)		
and maintenance works and		
supplemented with VHF radio		
broadcasts agreed with the MCA		
in accordance with the		
construction and monitoring		
programme approved under		
deemed marine licence condition		
<insert>.</insert>		
Copies of all notices must be		
provided to the MMO and UKHO		
within 5 days.		
5) The undertaker must notify the		
UKHO of the completion (within 14		
days) of the authorised project or		
any part thereof in order that all		
necessary amendments are made		
to nautical charts.		
Copies of all notices must be		
provided to the MMO and MCA		
within 5 days.		
6) In case of damage to, or		
destruction or decay of, the		
authorised project seaward of		
MHWS or any part thereof,		
excluding the exposure of cables,		
the undertaker shall as soon as		
reasonably practicable and no		
later than 24 hours following the		
undertaker becoming aware of any		
such damage, destruction or		
decay, notify MMO, MCA, Trinity		
House, UKHO, the Kingfisher		
Information Service of Seafish and		
regional fisheries contacts.		
7) In case of buried cables		
becoming exposed on or above		
the seabed, the undertaker must		
within three days following		
identification of a cable exposure,		
notify mariners, regional fisheries		
contacts and the Last updated		

18/05/23 Kingfisher Information Service of Seafish of the location and extent of exposure. Copies of all notices must be provided to the MMO, MCA, Trinity House, and the UKHO within 5 days.
and extent of exposure. Copies of all notices must be provided to the
all notices must be provided to the
MMO, MCA, Trinity House, and the UKHO within 5 days.
UKHO within 5 days.

NFOWFS3_023_006_130	Pre-construction plans and	Policy and	Offshore	Noted.	N
723	documents:	Legislative	Archaeology and		
	The authorised project shall not	Context	Cultural Heritage		
	commence until the following have				
	been submitted to and approved				
	by the MMO. Each programme,				
	statement, plan, protocol, scheme				
	or other detail required to be				
	approved under this condition				
	must be submitted to the MMO for				
	approval at least 6 months prior to				
	the commencement of the				
	authorised project except where				
	otherwise stated.				
	A plan to be agreed in writing				
	with the MMO following				
	appropriate consultation with				
	Trinity House, the MCA and				
	UKHO, setting out proposed				
	details of the authorised project,				
	including the:				
	a) number, dimensions,				
	specification, foundation type(s)				
	and depth for each WTGs,				
	offshore platforms, substations				
	and meteorological masts;				
	b) the grid coordinates of the				
	centre point of the proposed				
	location for each WTG, platform,				
	substation and meteorological				
	mast;				
	c) proposed layout of all cables;				
	and				
	d) location and specification of all				
	other aspects of the authorised				
	project.				
	2) An Aids to Navigation				
	Management Plan to be agreed in				
	writing by the MMO following				
	appropriate consultation with				
	Trinity House specifying how the				
	undertaker will ensure compliance				
	with conditions (1) to (4) of 'Aids to				
	Navigation' from the				
	commencement of construction of				
	the authorised project to the				
	completion of decommissioning.				
	3) No part of the authorised project				
	may commence until the MMO, in				

consultation with the MCA, has		
confirmed in writing that the		
undertaker has taken into account		
and, so far as is applicable to that		
stage of the project, adequately		
addressed all MCA		
recommendations as appropriate		
to the authorised project contained		
within MGN654 "Offshore		
Renewable Energy Installations		
(OREIs) – Guidance on UK		
Navigational Practice, Safety and		
Emergency Response Issues" and		
its annexes.		
4) A construction method		
statement in accordance with the		
construction methods assessed in		
the environmental statement and		
including details of –		
i) Cable specification, installation		
and monitoring, to include:		
a) technical specification of		
offshore cables below MHWS;		
b) a detailed cable laying plan for		
the Order limits, incorporating a		
burial risk assessment		
encompassing the identification of		
any cable protection that exceeds		
5% of navigable depth referenced		
to chart datum and, in the event		
that any area of cable protection		
exceeding 5% of navigable depth		
is identified, details of any steps		
(to be determined following		
consultation with the MCA and		
Trinity House) to be taken to		
ensure existing and future safe		
navigation is not compromised or		
such similar assessment to		
ascertain suitable burial depths		
and cable laying techniques,		
including cable protection; and		
Last updated 18/05/23		
c) proposals for monitoring		
offshore cables including cable		
protection during the operational		
lifetime of the authorised scheme		
which includes a risk based		
approach to the management of		

unburied or shallow buried cables.		
Pre-construction monitoring and		
surveys		
5) A swath bathymetric survey to		
U.O. Order to of the error within		
IHO Order 1a of the area within		
the Offshore Order Limits		
extending to an appropriate buffer		
around the site, must be		
undertaken. The survey shall		
include all proposed cable routes.		
This should fulfil the requirements		
of MGN654 and its supporting		
'Hydrographic Guidelines for		
Offshore Renewable Energy		
Developers', which includes the		
requirement for the full density		
data and reports to be delivered to		
the MCA and the UKHO for the		
update of nautical charts and		
publications. This must be		
submitted as soon as possible,		
and no later than [three months]		
prior to construction. The Order		
Limit shapefiles must be submitted		
to MCA. The Report of Survey		
must also be sent to the MMO.		

		I			
NFOWFS3_023_007_130 723	Aids to Navigation: 1) The undertaker shall during the whole period from the commencement of construction of the authorised project to the completion of decommissioning exhibit such lights, marks, sounds, signals and other aids to navigation, and to take such other steps for the prevention of danger to navigation as Trinity House may from time to time direct. 2) The undertaker must during the whole period from the commencement of construction of the authorised project to the completion of decommissioning keep Trinity House and the MMO informed of progress of the authorised project including; a. notice of commencement of construction of the authorised project within 24 hours of commencement having occurred; b. notice within 24 hours of any aids to navigation being established by the undertaker; and c. notice within 5 days of completion of construction of the authorised project. 3) The undertaker must provide reports to Trinity House on the availability of aids to navigation in accordance with the frequencies set out in the aids to navigation management plan agreed pursuant to condition <insert> using the reporting system provided by Trinity House. 4) The undertaker must during the whole period from the commencement of construction of the authorised project to the completion of decommissioning notify Trinity House and the MMO of any failure of the aids to navigation and the timescales and</insert>	Policy and Legislative Context	Shipping and Navigation	Noted.	N
	navigation and the timescales and plans for remedying such failures,				
	as soon as possible and no later				

	than 24 hours following the undertaker becoming aware of any such failure.				
NFOWFS3_023_008_130 723	Colouring of structures: 1) Except as otherwise required by Trinity House the undertaker must paint all structures forming part of the authorised project yellow (colour code RAL 1023) from at least HAT to a height as directed by Trinity House. Unless the MMO otherwise directs, the undertaker must paint the remainder of the structures grey (colour code RAL 7035). Last updated 18/05/23	Policy and Legislative Context	Project Description	Noted.	N

	unless otherwise agreed in writing by the MMO. An appropriate report must be submitted to the MMO, Trinity House and the MCA at the end of each year of the three year period.				
NFOWFS3_023_010_130 723	Completion of Construction (1) The undertaker must submit a close out report to the MMO, MCA, UKHO and the relevant statutory nature conservation body within three months of the date of completion of construction. The close out report must confirm the date of completion of construction and must include the following details— (2) the final number of installed wind turbine generators; (3) as built plans; and (4) latitude and longitude coordinates of the centre point of the location for each wind turbine generator and offshore platform, substation, booster station and meteorological mast; provided as Geographical Information System data referenced to WGS84 datum. (5) latitude and longitude coordinates of the inter array and export cable routes; provided as Geographical Information System data referenced to WGS84 datum. Last updated 18/05/23	Policy and Legislative Context	Technical Consultation	Noted.	N

	NOTE: These are standard conditions to be applied to all DMLs, other maybe requested for site specific projects.			
NFOWFS3_024_001_130 723	Dear Sir / Madam Ref: North Falls Offshore Wind Farm Statutory Consultation Planning Act 2008 Section 42 I refer to your letter dated 11th May 2023 regarding the Proposed Development. This is a response on behalf of National Grid Electricity Transmission PLC (NGET). Having reviewed the available information, I would like to make the following comments regarding NGET infrastructure within or in close proximity to the current red line boundary.	Introduction	Noted.	N

NFOWFS3_024_002_130 723	Norwich to Tilbury The Norwich to Tilbury project is required to achieve the UK Government's ambition of achieving net zero emissions by 2050 by upgrading the existing transmission network to allow communities across the country to benefit from this clean energy, the proposed project by National Grid Electricity Transmission (National Grid) is to reinforce the high voltage power network in East Anglia between the existing substations at Norwich Main in Norfolk, Bramford in Suffolk and Tilbury in Essex, as well as connect new offshore wind generation. The project as a whole and as one DCO application would comprise the construction of c.158km new overhead line and c. 25km of underground cabling over a total route of 183km between the existing National Grid Norwich Main and Bramford substations in the North East Anglia (NEA) region, continuing from Bramford down to Tilbury substation in the South East Anglia (SEA) region, via a New East Anglia (SEA) region, via a New East Anglia Connection Node Substation located in the Tendring District, east of Ardleigh. The East Anglia Connection Node (EACN) Substation will be the point of operational interface where the connection between the North Falls Onshore Substation and the National Grid Electricity Transmission System will be established. As such National Grid recognise the importance of early and continued collaboration between National Grid and the North Falls project teams across the aspects of: • Engineering	Technical Consultation	Infrastructure and Other Users	Noted. As the Project's National Grid connection point, the Applicant has engaged with NGET to identify the infrastructure required to interface with the EACN substation in order to connect with the national Grid. This infrastructure is outlined in section 5.7.4.7 of Chapter 5 (Project Description). Further information on the relationship betweent eh project and National Grid can be found in the Consultation Report (document reference 4.1).	N .

Property & Lands			
Consents and Environment			
External Affairs			
National Grid House			
Warwick Technology Park			
Gallows Hill, Warwick			
CV34 6DA			
National Grid is a trading name for:			
National Crid Flactricity			
National Grid Electricity			
Transmission plc			
Registered Office: 1-3 Strand,			
London WC2N 5EH			
Registered in England and Wales,			
No 2366977			
The purpose of such is to ensure			
The purpose of such is to ensure			
all interfaces between the projects			
are aligned and impacts minimised			
throughout the project lifecycle			
stages:			
Design/Development			
Construction			
Operation & Maintenance.			
Operation & Maintenance.			

NFOWFS3_024_003_130 723	Furthermore, National Grid shall consider further interfacing projects who plan to connect at the same EACN Substation and work collaboratively. I confirm that NGET has no existing apparatus within or in close proximity to the proposed site boundary.	Infrastructure and Other Users	Site Selection and Assessment of Alternatives	
	I hope the above information is useful. If you require any further information, please do not hesitate to contact me. In the meantime, we look forward to receipt of further information and consultation relating to potential impacts on our assets. The information in this letter is provided not withstanding any discussions taking place in relation to connections with electricity customer services.			
	Yours faithfully ELaycock Ellie Laycock Development Liaison Officer, Complex Land Righ			

NFOWFS3_025_001_140	Dear Thomas,	Policy and	Noted.	N
723	North Falls Offshore Array	Legislative		
. 20	Development	Context		
	Preliminary Environmental	Context		
	Information Report (PEIR)			
	consultation			
	Section 42 Planning Act 2008			
	Thank you for your letter dated 11			
	May 2023, to the Marine			
	Management Organisation (the			
	MMO) of North Falls Offshore			
	Wind Farm Limited's (the			
	Applicant) intention to submit an			
	application for development			
	consent under the Planning Act			
	2008 (the 2008 Act) to build an			
	offshore wind farm (OWF) with a			
	generating capacity exceeding 100			
	megawatts (MW) located in the			
	southern North Sea, approximately			
	20 kilometres (km) from the East			
	Anglia coast.			
	Under Section 42 of the 2008 Act			
	the MMO is a statutory consultee			
	and the MMO has provided			
	consultation comments below, to			
	help assist in the production of the ES.			
	The MMO's role in Nationally Significant Infrastructure Projects			
	The MMO was established by the			
	Marine and Coastal Access Act			
	2009 (the 2009 Act) to make a			
	contribution to sustainable			
	development in the marine area			
	and to promote clean, healthy, safe, productive and biologically			
	diverse oceans and seas.			
	The responsibilities of the MMO			
	include the licensing of			
	construction works, deposits and			
	removals in English inshore and			
	offshore waters and for Welsh and			
	Northern Ireland offshore waters			
	by way of a marine licence1.			
	Inshore waters include any area			
	which is submerged at mean high			
	water spring (MHWS) tide. They			
	also include the waters of every			
	also include the waters of every			

sestuary, river or channel where the tide flows at MHVSI bide. Vaters in areas which are closed permanently or intermittently 1 Under Part 4 of the 2009 Act By a lock or other artificial means against the regular action of the tide are included, where seawater flows into or out from the area. In the case of Nationally Significant infrastructure Projects (NSIPS), the 2008 Act enables Development Consent Order in			
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joint advice note4.	
2 Section 149A of the 2008 Act	
3 hiips://www.gov.uk/planning-	
development/marine-licences	
4	
hiip://infrastructure.planningportal.	
gov.uk/wp-	
content/uploads/2013/04/Advice-	
note-11-v2.pdf	
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North Falls Offshore Array		
Development North Falls Offshore Wind Farm		
Ltd are proposing to construct an		
OWF located in the southern North Sea, approximately 20 km from the		
East Anglia coast at its nearest point. The site is in two parts which		
covers a total area of 150 square		
kilometres (km2). North Falls OWF comprises of:		
 Up to 72 offshore wind turbine 		
generators • Up to two offshore substation		
platforms		

	•		
platform interconnector cables			
inter-array cables			
Options for transmission			
infrastructure including:			
o Option 1: Onshore electrical			
connection at a National Grid			
connection point within Tendring,			
Essex, with a project alone			
onshore cable route and onshore			
substation infrastructure;			
o Option 2: Onshore electrical			
connection at a National Grid			
connection point within Tendring,			
Essex, sharing all or part of an			
onshore cable route with separate			
onshore export cables with			
another project (such as Five			
Estuaries) where practicable, or			
o Option 3: Offshore electrical			
connection supplied by a third-			
party electricity network provider.			
Such a connection will potentially			
be identified through the Offshore			
Transmission Network Review			
(OTNR) process.			
The MMO has reviewed the			
consultation documents received			
11 May 2023 in consultation with			
our scientific advisors at the			
Centre for Environment, Fisheries			
and Aquaculture Science (Cefas)			
and has provided our initial			
comments below.			
The MMO has focused on the			
following chapters of the PEIR			
technical chapters, figures and			
appendices:			
Chapter 1: Introduction Chapter 2: Need for the Project			
Chapter 2: Need for the Project			
Chapter 3 Policy and Legislative			
Context			
Chapter 5: Project Description			
Chapter 8 Marine Geology			
Oceanography and Physical			
Processes			
Chapter 9: Marine Water and			
Sediment Quality			
Chapter 10: Benthic and Intertidal			
Ecology			
Chapter 11: Fish and Shellfish			

Ecology		
Chapter 12 Marine Mammals		
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Chapter 14: Commercial		
Fisheries		
Chapter 15 Shipping and		
Navigation		
Chapter 16 Offshore Archaeology		
and Cultural Heritage		
Chapter 29 Seascape,		
Landscape and Visual Impact		
Assessment (SLVIA)		
Habitats Regulations		
Assessment		
Marine Conservation Zone		
Assessment		
Page 5 of 21		
The MMO reserves the right to		
make further comments on the		
Project throughout the pre-		
application process and may		
modify its present advice or		
opinion in view of any additional		
information that may come to our		
attention.		
2. Chapter 3 Policy and Legislative		
Context		
2.1. Section 3.3.2.6.2 highlights		
the assessment against the East		
Inshore and East Offshore Marine		
Plans, the MMO welcomes this		
assessment. The MMO would		
request that a conclusion against		
each policy is set out in this		
document or ES chapter to show		
compliance against each policy		
along with the current information		
in Table 3.2.		

NFOWFS3_025_002_140 723	3. Chapter 8: Marine Geology Oceanography and Physical Processes 3.1. Table 8.2 in Chapter 8 provides a comprehensive summary of the potential impacts throughout the construction, operation and decommissioning phase. These are appropriate the MMO has no concerns regarding any impacts on coastal processes being scoped out. 3.2. Chapter 8 sets out the evidence base and potential impacts to be scoped-in to the assessment and these are appropriate. Where there is uncertainty about the exact design of the windfarm infrastructure, the Applicant has considered the most likely worst-case scenario, which is an appropriate method for undertaking such impact assessments. 3.3. The proposed embedded mitigative steps, including maximising the spacing between individual wind turbines to reduce their impact on coastal processes;	Marine Geology Oceanography and Physical Processes	Noted.	N
	maximising the spacing between individual wind turbines to reduce			

NFOWFS3_025_003_140	4. Chapter 9: Marine Water and	Marine Water and	Noted.	N
723	Sediment Quality	Sediment Quality		
	4.1. The Applicant has undertaken	•		
	sampling and analysis of material			
	from across the array and cable			
	areas (undertaken in May and			
	August 2021), with 9 samples			
	collected from the export cable			
	area, and 10 samples from the			
	array/interconnector cable area.			
	The samples were analysed for			
	levels of trace metals, polycyclic			
	aromatic hydrocarbons (PAHs) and polychlorinated biphenyls			
	(PCBs) by SOCOTEC, who are			
	validated by the MMO to			
	undertake such analyses. 39			
	samples were also collected for			
	particle size analysis (PSA), which			
	was undertaken by Fugro, who are			
	validated by the MMO to			
	undertake PSA.			
	4.2. The MMO notes that the			
	sediment sampling undertaken is			
	lower than that recommended by			
	OSPAR, however the MMO is			
	content that they provide sufficient			
	spatial coverage, particularly			
	considering the majority of material			
	to be disturbed is sand (confirmed			
	by the PSA results), which is			
	considered to be at a lower risk of contamination than finer particle			
	size fractions, and that material will			
	be redistributed within the same			
	area.			
	4.3. The results of the sampling			
	(provided in Tables 9.12 to 9.15 of			
	the PEIR, and Appendix 10.1,			
	Volume III) show levels of trace			
	metals in excess of Cefas Action			
	Level 1 (AL1), namely for arsenic			
	and nickel, with one sample also			
	exceeding AL1 for copper.			
	However, no samples approach or			
	exceed their respective AL2. The			
	PAH results show no exceedances			
	of AL1, and the PCB results are all			
	at or below the limits of detection.			
	at of below the littles of detection.			

	The MMO therefore agrees with the Applicant's conclusion that the likelihood of impact from the resuspension of contaminated sediment can be considered negligible. Page 6 of 21			
NFOWFS3_025_004_140 723	4.4. In Table 9.1 of Chapter 9 (Marine Water and Sediment Quality), it is noted from previous MMO comments regarding the potential requirement for a disposal site, stating that "worst case is for material to be released at the surface in the location in which it was removed". The MMO is of the opinion that, although material will be maintained within the same area, a designation of a disposal site will be required for these works. This site would cover the array and cable areas, in order to comply with the UK's obligations under OSPAR and the London Convention and Protocol. 4.5. Please note, this would only be required were it is anticipated that material will be removed from the water, however briefly this may be (i.e. bed levelling works carried out by means of plough dredging for example, may not be subject to the requirement of a disposal site,	Marine Water and Sediment Quality	The Applicant is in the process of seeking a disposal licence from the MMO. A Site Characterisation Report (document reference 7.26) has been submitted to the MMO and included within the DCO application.	N

	whereas removal via trailer suction dredging, for example, for release at the sea-surface would be subject to this requirement). In line with this requirement, annual disposal returns must be submitted to the MMO during the project's construction. A site Characterisation Report must be submitted to enable the MMO to designate one or more disposal sites.			
NFOWFS3_025_005_140 723	5. Chapter 10: Benthic and Intertidal Ecology 5.1. The MMO does not have any concerns regarding the scoping out of transboundary effects and the potential impact of invasive non-native species (INNS) associated with the construction and decommissioning phases. The MMO does note that the impact of INNS will be assessed as part of the operation phase of the development.	Benthic and Intertidal Ecology	Noted. The impact of INNS has been assessed in Section 10.6.2.7 of Chapter 10 (Benthic and Intertidal Ecology).	N
NFOWFS3_025_006_140 723	5.2. Table 10.30 of Chapter 10 of the PEIR summarises the assessment of the range of impacts identified for benthic and intertidal ecology and these are appropriate.	Benthic and Intertidal Ecology	Noted.	N
NFOWFS3_025_007_140 723	5.3. One of the recommendations in Kirchgeorg et al. 2018 was to consider corrosion protection systems during Environmental Impact Assessments (EIA) for offshore wind platforms and to develop monitoring strategies to determine the long-term environmental impact of the introduction of paint flakes into the marine environment around OWFs. 5.4. The MMO recommends that consideration is given to the	Benthic and Intertidal Ecology	The issue of paint flakes was discussed with the Seabed ETG and the MMO expanded that their assumption is it will have a very low environmental impact but should be considered, perhaps in the monitoring plan. Monitoring of the integrity of the North Falls infrastructure, including flaking paint, is included in the Offshore In-principle Monitoring Plan (document reference 7.10).	Y

	impact of paint flakes (as microplastic pollution), originating from maintenance and operation (specifically application of corrosion resistant paints) of the North Falls OWF, on benthic receptors. It may be useful to provide an estimate of the quantity of paint expected to be used during the lifetime of the project and the percentage of that which may be expected to result in microplastic pollution. Please also see comments in Section 18.			
NFOWFS3_025_008_140 723	6. Chapter 11: Fish and Shellfish Ecology - Shellfish 6.1. The receptors scoped in and out are appropriate for shellfish and shellfisheries, the assessment is proportionate to fully identify and assess the potential impacts. 6.2. The MMO notes that the Kent and Essex Inshore Fisheries Conservation Authority (KEIFCA) have been consulted in relation to location of cockle and native oyster beds. The MMO defers to KEIFCA for comments on potential impacts of the development on those features. Page 7 of 21 6.3. The Applicant has outlined embedded mitigation in the design in Table 11.3 of Chapter 11 Fish and Shellfish Ecology and Table 14.4 of Chapter 14 Commercial Fisheries. The MMO agrees with the mitigation measures proposed for shellfish.	Fish and Shellfish Ecology	Noted.	N
NFOWFS3_025_009_140 723	6.4. The assessment of impacts to fish from underwater noise and habitat disturbance for some species (primarily herring and sandeel) requires further consideration and some changes are needed to ensure the ES is robust and fit for the purpose of assessing the likelihood of	Fish and Shellfish Ecology	An updated assessment on the impacts to fish from habitat disturbance and underwater noise are presented in Section 11.6.1.1 and Section 11.6.1.4 of ES Chapter 11 (Fish and Shellfish Ecology), respectively.	N

			I		
	significant impacts occurring to				
	fish.				
NFOWFS3_025_010_140		Fish and Shellfish		A multi-layered map characterising sandeel habitat,	N
723	7. Chapter 11: Fish and Shellfish	Ecology		including broad-scale BGS data, PSA data from	IN .
120	Ecology - Fish	Leology		the Cefas' OneBenthic Portal, PSA data collected	
	7.1. The assessment of impacts to			from the offshore project area as well as the data	
	fish from underwater noise and			presented in Coull et al. (1998) and Ellis et al.	
	habitat disturbance for some			(2012) and relevant commercial fishing data is	
	species (primarily herring and			presented in Figure 11.7 in Chapter 11 (Fish and	
	sandeel) requires further			Shellfish Ecology).	
	consideration and some changes			3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3 3	
	are needed to ensure the ES is				
	robust and fit for the purpose of				
	assessing the likelihood of				
	significant impacts occurring to				
	fish. The MMO has outlined the				
	key areas of concern in the				
	comments below under the topics				
	of sandeel, herring, underwater				
	noise, mitigation, cumulative				
	impacts and unexploded ordnance				
	(UXO).				
	Sandeel				
	7.2. In the Fish and Shellfish				
	Ecology Figures document				
	(Chapter 11: Fish and Shellfish				
	Ecology - Figures (Volume II)) the				
	spawning and nursery grounds for sandeel have been mapped using				
	Coull et al. (1998) and Ellis et al.				
	(2012). Figure 11.5 presents catch				
	rates of sandeel for the North Sea				
	International Bottom Trawl Survey				
	(IBTS) for the years 2017 – 2021.				
	Whilst IBTS date does				
	demonstrate that sandeel are				
	caught in the study area, the GOV				
	trawl used in the survey does not				
	adequately target sandeel, and				
	may be under representative of				
	sandeel abundance. Figure 11.6				
	(from Jensen et al. 2011) shows				
	the study area to be situated within				
	an ICES sandeel assessment				
	area, but not within one of the				

	commercial sandeel fishing banks. Whilst the data presented in the PEIR overall do not suggest that the study area is of particularly high importance as sandeel habitat, the characterisation of sandeel habitat should include some additional sources of data, primarily to characterise seabed sediments in the array and cable corridor areas as the PSA data collected for the array areas is somewhat sparse and this should be included in the ES.			
NFOWFS3_025_011_140 723	7.3. The MMO recommends the inclusion of a multi-layered map which presents broad-scale British Geological Survey (BGS) data indicating the sediment types in the study area, combined with the sandeel spawning and nursery grounds data as per Coull et al. (1998) and Ellis et al. (2012), and the existing PSA data collected during the benthic surveys. Further site-specific PSA data may also be available from Cefas' OneBenthic Portal which contains benthic datasets including PSA from past surveys. Additional PSA from the OneBenthic portal could be used to supplement the Applicant's existing PSA data.	Fish and Shellfish Ecology	A multi-layered map presenting broad-scale BGS data, PSA data from the Cefas' OneBenthic Portal, PSA data collected from the offshore project area as well as the data presented in Coull et al. (1998) and Ellis et al. (2012) and relevant commercial fishing activity is shown in Figure 11.7 in Chapter 11 (Fish and Shellfish Ecology).	N

NFOWFS3_025_01: 723	7.4. As with sandeel, the characterisation of Downs herring spawning habitat should include a multi-layered map presenting BGS data, herring spawning and nursery grounds data as per Coull et al. (1998) and Ellis et al. (2012), the existing PSA data collected during the benthic surveys, and PSA data from the Cefas' OneBenthic Portal. Page 8 of 21 7.5. International Herring Larvae Survey (IHLS) data for the years 2012 – 2017 and 2019 - 2022 have been used to inform the assessment, which is appropriate, and the limitations relating to the absence of data and the change in the temporal extent of the Downs IHLS survey have been recognised. The plotted IHLS data in Figures 6.32 and 6.33 (Chapter 11: Fish and Shellfish Ecology - Figures (Volume II)) indicate the larvae are consistently caught in the study area and close to the array in all years where data are available. Plotting individual years of data as per Figures 6.32 and 6.33 is helpful to demonstrate the inter-annual variations in larval density as a proxy for spawning intensity.	Fish and Shellfish Ecology	Noted.	N
NFOWFS3_025_01: 723	7.6. In order to provide a more complete picture of the extent of Downs spawning activity over time the MMO recommends that a 'heat' map of all IHLS data combined for the years 2012 – 2017 and for 2018 – 2022 is presented. The mapped data for years 2018 – 2022 will account for the change in temporal extent of the IHLS survey. Please see MarineSpace (2013) for example of a heat map approach which assigns confidence scores to the	Fish and Shellfish Ecology	A multi-layered map presenting IHLS data combined for the years 2012-2017 and for 2018-2022, using the MarineSpace (2013) approach is presented in Figure 6.33, Appendix 11.1 (document reference 3.3.5).	N

	various data layers used in heatmaps for determining potential herring spawning habitat.			
NFOWFS3_025_014_140 723	7.7. The overlap of the inshore portion of the study area with the spawning ground of the Thames/Blackwater herring population is acknowledged in the PEIR, however, their spawning season (between February and May) is not included in Table 11.12 (Chapter 11 Fish and Shellfish Ecology) for spawning seasons and nursery grounds in the study area. This should be corrected in the ES.	Fish and Shellfish Ecology	The spawning period of the Blackwater herring has been added to Table 11.12 of Chapter 11 Fish and Shellfish Ecology.	Y
NFOWFS3_025_015_140 723	7.8. In point 85 (Chapter 11: Fish and Shellfish Ecology - Figures (Volume II)) it is noted that the Blackwater herring is a receptor of 'low sensitivity' in the context of negligible magnitude due to the distance between the spawning ground and the project. Whilst it is accepted that this will be the case for impacts arising from physical seabed disturbance, the MMO does not agree that Blackwater herring will be a receptor of 'low sensitivity' in the context of underwater noise from piling and UXO clearance. The MMO recommends that in the ES, Blackwater herring are reclassified as a 'high sensitivity' receptor due to their sensitivity to underwater noise.	Fish and Shellfish Ecology	The Applicant has updated the noise and habitat disturbance assessments both for herring and sandeels (see Chapter 11, Fish and Shellfish Ecology). High sensitivity scores have been applied to these receptors where appropriate. The assessment presented in the PEIR provided lower sensitivities for these receptors in some cases, taking account of the limited potential exposure of the receptor to the impact/limited potential overlap between receptors and impact. This is a critical factor to define impact significance and inform assessments. In the ES chapter, aspects relating to the level of overlap between the impact and these receptors have been accounted for under impact magnitude instead, and therefore, magnitude scores have also been reviewed as appropriate.	N

and Shellish Ecology, Document Reference No. 10447021-04, Revision: 04.) It is noted that Downs herring are a receptor of medium sensitivity owing to the slight overlap of the southern array with the Downs herring spawning ground. The MMO does not agree with a medium sensitivity owing the slight overlap of the southern array with the Downs herring spawning ground. The MMO does not agree with a medium sensitivity to underwater nose from UXO clearance, and because herring are benthic spawners that rely on specific gravel substrates to lay their eggs. Direct disturbance to the seabed sediments caused day construction activities can cause damage to, and removal of spawning habitat, eggs, and yolk-sac larvae. Furthermore, the deposition of suspended sediments that arise from construction works on the seabed can cause semanting of development of eggs and larvae. For these reasons the MMO believes Downs herring should be reclassified as a receptor of high sensitivity. 7.10. Concerning the effects of electro-magnetic fields (EMF) on electro-sensitive fish receptors such as elasmobranchs, cels and lampreys, the MMO notes that the intended average cable burial depth (or array, interconnector and export cables with be 1.2m. in line the line of the lating of the lati					
l obstructions) as this will further	NFOWFS3_025_016_140 723	Reference No: 004447021-04, Revision: 04.) it is noted that Downs herring are a receptor of 'medium sensitivity' owing to the slight overlap of the southern array with the Downs herring spawning ground. The MMO does not agree with a 'medium sensitivity' classification for the reasons of herring's sensitivity to underwater nose from UXO clearance, and because herring are benthic spawners that rely on specific gravel substrates to lay their eggs. Direct disturbance to the seabed sediments caused by construction activities can cause damage to, and removal of spawning habitat, eggs, and yolk-sac larvae. Furthermore, the deposition of suspended sediments that arise from construction works on the seabed can cause smothering of spawning habitat affecting the development of eggs and larvae. For these reasons the MMO believes Downs herring should be reclassified as a receptor of 'high sensitivity'. 7.10. Concerning the effects of electro-magnetic fields (EMF) on electro-sensitive fish receptors such as elasmobranchs, eels and lampreys, the MMO notes that the intended average cable burial depth for array, interconnector and export cables will be 1.2m. In line the with the National Policy Statement EN3 (Department of Energy & Climate Change, 2011) The MMO recommends that where possible, cables are buried to a minimum depth of 1.5m (subject to local geology or seabed		of the Cable Burial Risk Assessment (CBRA). Burial depth will bury along the cable route and may be ≥1.5 m at suitable locations. For the purposes of the assessment, however, the average cable burial depth (1.2m) and the target minimum cable burial depth (0.65m) have been presented (Table 11.2 of Chapter 11 Fish and Shellfish Ecology) as these represent the realistic worst-case scenario. The Applicant notes that reference to 1.5m made in the former version of the National Policy Statement EN3 (2011) is no longer referred to in the updated	N
increase the distance		obstructions) as this will further			

	between electro-sensitive fish receptors and EMF, as well as reduce the risk of snagging and damage to cables by other marine vessels e.g. anchors, bottom-towed gear.			
NFOWFS3_025_017_140 723	Underwater Noise 7.11. Figures 11.9 – 11.19 (Chapter 11: Fish and Shellfish Ecology - Figures (Volume II)) present the modelled noise impact contours overlaid onto the spawning and nursery grounds of fish in the study area. 7.12. Figures 11.9 (sole), 11.10 (plaice), 11.13 (sandeel), 11.14 (cod), 11.15 (whiting), 11.16 (sprat), 11.17 (Downs herring) and 11.19 (tope) present: a) Noise impact contours overlaid with the spawning and nursery grounds for a sequential monopile at the east location, based on a hearing threshold of 186 Decibel (dB) for a stationary receptor. b) Noise impact contours overlaid with the spawning and nursery grounds for a sequential pin pile at the east location, based on a hearing threshold of 186dB for a fleeing receptor. 7.13. Figures 11.11 (lemon sole), 11.12 (mackerel), 11.18	Fish and Shellfish Ecology	Figure 11.9 to Figure 11.19 (document reference 3.2.7) have been updated to include a visual representation of the impact ranges for mortality and potential mortal injury and recoverable injury.	N

	(Blackwater herring) and 11.19 (thornback ray) present: a) Noise impact contours overlaid with the spawning and nursery grounds for a sequential monopile at the south location, based on a hearing threshold of 186dB for a stationary receptor. b) Noise impact contours overlaid with the spawning and nursery grounds for a sequential pin pile at the south location, based on a hearing threshold of 186dB for a fleeing receptor. 7.14. The 186dB threshold presented in Figures 11.9 – 11.19 only show the predicted range of effect for temporary threshold shift (TTS) which is a temporary reduction in hearing sensitivity caused by exposure to intense sound. The impact ranges for mortality and potential mortal injury and recoverable injury have been provided in Tables 11.19 – 11.34, however these do not provide a complete visual representation of the overlap of noise effects with the spawning and nursery grounds.			
NFOWFS3_025_018_140 723	7.15. For the ES, underwater noise modelling should be presented using thresholds for mortality and potential mortal injury (as per Popper et al., 2014, which classifies fish according to their hearing capabilities). For fish with no swim bladder (i.e., sole, plaice, lemon sole, sandeel, mackerel and elasmobranchs) the threshold for mortality and potential mortal injury is >219 dB cumulative sound exposure level (SELcum) or >213dB peak, for fish with a swim bladder that is not involved in hearing the threshold is 210dB SELcum or >207dB peak, and for fish with a swim bladder involved in hearing (i.e., herring, sprat and	Fish and Shellfish Ecology	The thresholds for mortality and potential mortal injury described in Popper et al. (2014) were used to inform the assessment and presented in tables within section 11.6.1.4 of the PEIR. These have also been included in Table 11.17 to Table 11.34 in Chapter 11 (Fish and Shellfish Ecology)and used to inform the assessment in the ES. Additionally, mortality and potential mortal injury impact ranges have also been included within relevant Figures (Figure 11.9 to Figure 11.19) in support of the underwater noise assessment included in Section 11.6.1.4.2 of ES Chapter 11.	N

	cod) the threshold is 207 dB SELcum or >207 dB peak. For eggs and larvae, a threshold of >210 dB SELcum or >207 dB peak should be used.			
NFOWFS3_025_019_140 723	7.16. Given the specific spawning habitat requirements of herring and their sensitivity to underwater noise, the MMO requests that additional noise modelling for the received levels of single strike sound exposure levels (SELss) at the Downs and Blackwater herring spawning grounds based on the 135dB (SELss) startle response (as per Hawkins et al. (2014) are presented (in mapped form) in order to predict the range of effect for behavioural responses in herring.	Fish and Shellfish Ecology	Charts presenting modelling for the received levels of SELss at the Downs and Blackwater herring spawning grounds based on the 135dB (SELss) startle response (as per Hawkins et al. (2014)) are provided in Figure 11.17 and Figure 11.18 respectively (document referenced 3.2.7). The Applicant notes, however, that Hawkins et al. (2014) acknowledge that "these data cannot yet be used to define the sound exposure criteria" due to the limited nature of the study. Of particular note was that the study was conducted in a quiet lough (lake). The background noise generated in a calm lough environment is far quieter than that generated in the open-water North Sea where 135 dB SEL is likely to be only slightly above the background noise level in a busy shipping area, based on measurements at the Hornsea Project Two Offshore Wind Farm. As such it is not appropriate to attempt to translate reaction patterns from one distinct environment to the other distinct environment.	N
NFOWFS3_025_020_140 723	7.17. For the ES, the maps (Figures 11.9 – 11.19) should state the hammer energy and pile diameter used in the modelling. Modelling should be based on the maximum hammer energy (6000 kilojoules (kJ)) and pile diameter (17 metres (m)).	Fish and Shellfish Ecology	Figure 11.9 to Figure 11.19 (document reference 3.2.7) have been updated to state the hammer energy and pile diameter used in the modelling.	N

	sustained over short periods (20-30 seconds). c) Prolonged swimming is a transitional speed between burst and sustained swimming which can be maintained for intermediate lengths of time (1-200 minutes). 7.21. Fish will respond to loud noise and vibration, through observed reactions including schooling more closely; moving to the bottom of the water column; swimming away, and burying in substrate (Hawkins and Popper, 2014; Popper et al., 2014). However, this is not the same as fleeing, which would require a fish to flee directly away from the source over the distance shown in the modelling. The MMO is not aware of scientific or empirical evidence to support the assumption that fish will flee in this manner. 7.22. The assumption that a fish will flee from the source of noise is overly simplistic as it overlooks factors such as fish size and mobility, philopatric behaviours (foraging, reproductive or migratory) which may cause an animal to remain/return to the area of impact. This is of particular relevance to herring, as they are benthic spawners which spawn in specific locations with specific substrate composition.			
NFOWFS3_025_022_140 723	7.23. It is not obvious from reading the PEIR whether concurrent or simultaneous piling will be carried out during construction of the project. If there is potential for concurrent or simultaneous piling to be undertaken then MMO would expect this scenario to be modelled and presented in the ES, especially as it is expected that concurrent piling would result in a larger impact range than	Fish and Shellfish Ecology	Modelling is presented in Appendix 12.3 Underwater Noise Modelling Report (Volume III) (document reference 3.3.8) using the worst-case monopile and pin pile sequential piling scenarios, for simultaneous piling at the East and South locations, representing a worst case spread of locations.	N

	sequential piling. Alternatively, it should be made clear in the ES if concurrent piling is or is not to be undertaken.Page 11 of 21			
NFOWFS3_025_023_140 723	Mitigation 7.24. 'Best practise' embedded mitigation measures have been proposed, which the MMO supports, but they have not proposed any additional fisheries- specific mitigation. Regardless of comments regarding the need for further UWN modelling, based on the predicted range of effect for mortality and potential mortal injury, recoverable injury and TTS presented. The possibility of a temporal piling restriction during the Blackwater herring spawning season will very much depend on the outcomes of the modelling. Given the potential likelihood of temporal mitigation, which can create delays in the construction schedules of OWFs, the use of additional noise abatement measures for piling, such as bubble curtains (see Würsig et al. (1999)), or other alternative measures should be considered. 7.25. Further temporal restrictions may be necessary for other construction works that cause disturbance to the seabed during the herring spawning season, however, this will be subject to review of the herring spawning habitat characterisation in the ES.	Fish and Shellfish Ecology	Due consideration is given to the spawning grounds and sensitivity of herring in the assessment of impacts that result in physical disturbance to the seabed e.g. temporary habitat loss, SSC etc given the herring are demersal spawners (see Chapter 11, Fish and Shellfish Ecology). Multi-layered maps presenting broad-scale BGS data, PSA data from the Cefas' OneBenthic Portal, PSA data collected from the offshore project area as well as the data presented in Coull et al. (1998) and Ellis et al. (2012) is shown in Figure 11.3 (doucment reference 3.2.7).	N

NFOWFS3_025_024_140 723	Unexploded Ordinance (UXO) 7.26. The MMO notes that underwater noise modelling for UXO clearance has also been carried out, using the appropriate unweighted peak sound pressure level (SPLpeak) explosions threshold for fish of 229 - 234 dB peak (as per Popper et al., 2014). At this stage, a UXO survey of the seabed has not yet been carried out. However, MMO has the following comments to make based on review of the provisional assessment in points 234 - 236 (Chapter 11: Fish and Shellfish Ecology). 7.27. The assessment on the magnitude of impact and the sensitivity of the receptor is very high-level and does not consider the various sensitivities of fish receptors, particularly those with a swim bladder involved in hearing. Nor does the discussion consider the sensitive spawning periods of fishes or identify those fish with specific habitat requirements for part of all of their life cycles (e.g., herring, sandeel and oviparous elasmobranchs). For these primary reasons, the MMO does not agree that the impact to fish from UXO clearance will be of 'minor significance'. The MMO would expect a more detailed assessment on the impacts to fish from UXO clearance to be undertaken to support the ML	Fish and Shellfish Ecology		The assessment for UXO has been updated and now includes consideration of different species sensitivities and likely significant effects on spawning and nursery grounds (see Section 11.1.1.1 of Chapter 11 (Fish and Shellfish Ecology).	N
NFOWFS3_025_025_140 723	application. Cumulative impacts 7.28. No coastal developments in the planning stages have been included in the list of projects for the cumulative and inter-related impact assessment. Projects in the planning stages such as port/harbour developments, power stations etc, should also be	Fish and Shellfish Ecology	Site Selection and Assessment of Alternatives	The assessment has been updated to take into account coastal developments. Table 11.52 of Chapter 11 (Fish and Shellfish Ecology) provides the screening results for coastal developments.	N

	identified and assessed (where appropriate) in the ES, particularly in respect of construction works for the nearshore part of the cable corridor.				
NFOWFS3_025_026_140 723	7.29. In light of comments in respect of the UWN modelling, it should be recognised that the range of effect for cumulative and inter-related effects may increase if the modelling shows an impact range exceeding 100km. With this in mind, there may be other offshore developments further afield that will require scoping into the assessment, should the UWN modelling show a range of effect of >100km. Page 12 of 21	Fish and Shellfish Ecology	Site Selection and Assessment of Alternatives	As detailed in Appendix 12.3 Underwater Noise Modelling Report (Volume III) (document reference 3.3.8) and summarised in Section 11.6.1.4 of Chapter 11 (Fish and Shellfish Ecology) the worst-case impact range modelled in relation to underwater noise for fish is considerably smaller than 100 km.	N
NFOWFS3_025_027_140 723	7.30. For the reasons in relation to sandeel, herring and underwater noise respectively, the MMO does not currently agree with the conclusions on cumulative effects. A more detailed characterisation of herring spawning habitat and sandeel habitat is required in order to ascertain the likely extent of impacts to these habitats in relation to the predicted range of effects. When the habitat characterisations have been completed and the sensitivity of herring changed to 'high' the magnitude and significance of effects should be re-evaluated. Once this is done, cumulative and inter-related impacts can also be re-assessed.	Fish and Shellfish Ecology	Site Selection and Assessment of Alternatives	Multi-layered maps presenting broad-scale BGS data, PSA data from the Cefas' OneBenthic Portal, PSA data collected from the offshore project area as well as the data presented in Coull et al. (1998) and Ellis et al. (2012) and commercial fishing activity (sandeel) is shown in Figure 11.3 and Figure 11.7 (document reference 3.2.7) for herring and sandeel respectively. The Applicant has updated the noise and habitat disturbance assessments both for herring and sandeels (see Chapter 11, Fish and Shellfish Ecology, document reference 3.1.13). High sensitivity scores have been applied to these receptors where appropriate.	N

NFOWFS3_025_028_140 723	8. Chapter 12 Marine Mammals 8.1. All relevant / applicable marine mammal functional hearing groups have been considered in the underwater noise modelling assessment. Furthermore, all fish groups have been considered as per Popper et al. (2014). The marine mammal species scoped into the PEIR assessment, which sit within these four hearing groups, are harbour porpoise, minke whale, grey seal and harbour seal. The MMO defers to Natural England to ensure that all relevant marine mammal species have been scoped in.	Marine Mammals	Noted.	N
NFOWFS3_025_029_140 723	8.2. The MMO believes that all relevant impacts have been scoped in for assessment. Specifically, the potential effects of auditory injury (Permanent Threshold Shift, PTS) and TTS and disturbance resulting from the following activities, have been considered a. Piling (and disturbance to ADD activation, noting that final requirements for mitigation in the MMMP will be determined prior to construction), b. Other construction activities including seabed preparations, rock placements and cable installation, c. Construction vessels, d. Noise from operational wind turbines and O&M activities and vessels	Marine Mammals	Noted.	N
NFOWFS3_025_030_140 723	8.3. Chapter 12 Marine Mammals confirms that a Marine Mammal Mitigation Plan/Protocol (MMMP) will be developed for piling. The MMO supports this approach. The final MMMP will include the standard measures as per the JNCC (2010) guidance, including a monitoring zone of at least 500 m	Marine Mammals	Outline MMMP (document reference 7.7) has been produced and submitted as part of the DCO application, with JNCC guidance included.	Y

	(or higher if required to cover the PTS range for a single strike of the hammer), soft start procedures and acoustic deterrent devices (ADDs).			
NFOWFS3_025_031_140 723	8.4. The MMO notes that Paragraph 138, states: 'The potential for PTS due to a single strike at the starting hammer energy (of 900kJ) will be provided in the ES, and to inform the in-principle Marine Mammal Mitigation Plan (MMMP). Underwater noise modelling for a single strike at the starting hammer energy has not been provided at this stage, however it will be required to inform mitigation requirements which will be confirmed at ES stage.' The MMO will provide further comments once this is provided.	Marine Mammals	Noted. The results of the underwater noise modelling for a single strike of the starting hammer energy are provided in Appendix 12.3 (Volume III), and an assessment of these effect ranges is provided in Appendix 12.4 Underwater Noise Technical Assessment (Volume III) (document reference 3.3.9).	N
NFOWFS3_025_032_140 723	8.5. Paragraph 145, states: "It is important to note that assessment for PTS from cumulative exposure is highly precautionary". The results are not necessarily highly precautionary given the variable modelling parameters, and uncertainties regarding source levels, please see comments in Section 7 and 9 on modelling. Page 13 of 21	Marine Mammals	The text in this section has been amended to remove reference to the assessment being highly precautionary. Further detail on how results are used within the assessments have been added, see Section 12.6.1 OF Chapter 12 Marine Mammals (document reference 3.1.14) of the ES.	Y
NFOWFS3_025_033_140 723	8.6. Paragraph 308 (and comments also applies to paragraphs 355, 366, 499, 538 and elsewhere in this chapter) states: "There is unlikely to be any significant risk of any TTS, as again the modelling indicates that the marine mammal would have to remain <100m for 12 hours in a day, with the exception of harbour porpoise which would have to remain 200m or less during	Marine Mammals	This has been corrected throughout the relevant assessments in Chapter 12 Marine Mammals (Volume I) (document reference 3.1.14) of the ES.	Y

	dredging for 12 hours, or for seal species, which would have to remain with 1km or less of rock placement for 12 hours to be at risk of TTS". The MMO believes that this statement is not accurate. The modelling is based on a fleeing receptor, and, therefore, the receptor is simply at risk if they are within 100 m of the vessel when they start to move away (fleeing is about the receptor starting position). This should be corrected throughout the report as part of the ES. agement.org.uk			
NFOWFS3_025_034_140 723	9. Appendix 12.2: Underwater Noise Modelling Report 9.1. This report appropriately provides details of the underwater noise modelling undertaken to support the PEIR. Section 2.2 Analysis of environmental effects For the assessment of the cumulative sound exposure, a fleeing animal receptor has been assumed for marine mammals, with 'fleeing' speeds of 3.25m/s for low-frequency cetaceans and 1.5 m/s for all other receptors. For fish receptors, both a fleeing and stationary animal model has been assumed. As above the MMO is not aware of empirical evidence to support fleeing in fish, and therefore the predictions based on a stationary receptor will be the most appropriate/relevant. Fleeing assumptions can have a significant effect on the assessment outcomes. For example, as per Table 4-23 in the report, maximum TTS ranges of 33 km are predicted for a stationary (fish) receptor, whereas for a fleeing (fish) receptor, a range of	Marine Mammals	Noted.	N

	15 km is predicted.	I		
	Section 3			
NFOWFS3_025_035_140 723	9.2. The general approach / methodology to the underwater noise modelling is largely appropriate, and effort has been undertaken to produce an informative report, along with details of the input parameters used in the modelling. The assessment refers to appropriate noise exposure criteria for marine receptors. The MMO agrees with the report that at the time of writing, Southall et al. (2019) and Popper et al. (2014) represent the most up-to-date and authoritative criteria for marine mammals and fish respectively.	Marine Mammals	Noted.	N
NFOWFS3_025_036_140 723	9.3. Figure 3-1 (Appendix 12.2 Underwater Noise Modelling Report) shows a comparison between example measured impact piling data and modelled data using INSPIRE version 5.1. Firstly, the pile sizes used in this comparison are much smaller than the proposed 12 or 17 m diameter for North Falls OWF (i.e., 1.8 m pile, 9.5 m pile, 6.1 m pile, and 6 m pile). 9.4. Secondly, providing the hammer energies as well as pile diameter would be helpful (it is very unlikely that the hammer energies will be close to the	Marine Mammals	The lack of data available for the assessment of the largest foundations and largest hammer energies is acknowledged; this data is not available. INSPIRE uses an extrapolation based on the best available data at the time of modelling and to date this extrapolation has produced results that have been demonstrated to be reasonable when monitoring of the piling has been undertaken on previous developments. In respect of validation for single strike Sound Exposure Level (SELss), any future revision of the Underwater Noise Modelling Report (document reference 3.3.8) will include charts equivalent to those provided for peak Sound Pressure Level (SPLpeak).	N

	proposed 6,000 kJ hammer Page 14 of 21 energy for North Falls OWF. Thirdly, further evidence is required in terms of the SELss and not just the SPLpeak. The MMO recommends these points should be addressed in the ES.			
NFOWFS3_025_037_140 723	9.5. In section 3.1 the report states: "The current version of INSPIRE (version 5.1) is the product of re-	Marine Mammals	Noted.	N
	analysing all the impact piling noise measurements in Subacoustech Environmental's measurement database and cross-referencing it with blow energy data from piling logs This analysis showed that, based on the most up-to-date measurement data for large piles at high blow energies, the previous iterations of INSPIRE tended to overestimate			
	the predicted noise levels at these blow energies With this in mind, the current version of INSPIRE attempts to calculate closer to the average fit of the measured noise levels at all ranges". The MMO welcomes this clarification, and acknowledges the drive for reducing unnecessary			
	conservatism in modelling. Allegedly, the current version of INSPIRE should produce more realistic predictions.			

NFOWFS3_025_038_140 723	Section 4 Modelling Results 9.6. In Section 4.1 Single location modelling – monopiles the following maximum PTS(SELcum) injury ranges in marine mammals are predicted: a. 3.2 km for very-high frequency (VHF) cetaceans (i.e., harbour porpoise), b. 7.0 km for low frequency cetaceans (i.e., minke whale), and c. < 100 m for phocid pinnipeds (i.e., seals) 9.7. TTS ranges of 24 km, 30 km and 8.9 km were predicted for VHF cetaceans, LF cetaceans and phocids respectively. 9.8. For fish, a maximum range of 33 km (stationary receptor) was predicted for TTS using the Popper et al. (2014) criteria, as well as potential mortal injury (6.0 km) and recoverable injury (9.3 km).	Marine Mammals	Noted.	N
NFOWFS3_025_039_140 723	9.9. The predicted ranges for fish look credible based on the modelling parameters. The MMO has been able to somewhat match the Subacoustech predictions for marine mammals, but it is important to note that predictions will vary greatly, depending on a particular transect and chosen sound propagation parameters (i.e., seabed sediment parameters). This, however, also means that varying certain parameters (e.g., source levels, or the choice of geo-acoustic properties for a generic sandy-type seabed) can lead to sizeable differences in predictions. The salient point to note is that the results are certainly within the plausible range of outcomes but at the same time not necessarily over-precautionary.	Marine Mammals	Noted.	N

NFOWFS3_025_040_140 723	9.10. In relation to pin ypiles, overall, larger effect ranges are predicted for pin piles, for the reasons explained in the assessment (i.e., the piling profile and fleeing assumptions). The following maximum PTS (SELcum) injury ranges in marine mammals are predicted: d. 5.1 km for VHF cetaceans (i.e., harbour porpoise), e. 10 km for low frequency cetaceans (i.e., minke whale), and f. < 100 m for phocid pinnipeds (i.e., seals) TTS ranges of 26 km, 35 km and 11 km were predicted for VHF cetaceans, low frequency (LF) cetaceans and phocids respectively. Page 15 of 21 For fish, a maximum range of 25 km (stationary receptor) was predicted for TTS using the Popper et al. (2014) criteria, as well as potential mortal injury (3.3 km) and recoverable injury (5.5 km).	Marine Mammals	For pin piles, the soft-start and ramp-up procedure has been amended with the result of lower effect ranges. See Appendix 12.3 Underwater Noise Modelling Report (Volume III) (document reference 3.3.8) of the ES for further information.	N
NFOWFS3_025_041_140 723	9.11. In relation to Section 4.1 Sequential pile installation, for monopiles it is expected that in a 24-hour period, up to two monopile foundations, or four pin pile foundations can be installed. For marine mammals, and for two monopiles, the predicted ranges are the same as those predicted for a single monopile. The time it takes to install one monopile is 7.5 hours. Therefore, by the time the subsequent pile is installed, the fleeing receptor (in the case of marine mammals) is at such a distance that the additional exposure is minimum (assuming the animal continues to flee throughout the piling period).	Marine Mammals	Noted.	N

NFOWFS3_025_042_140 723	9.12. However, when considering a stationary animal (as in the case of fish), the ranges are increased because the receptor is receiving noise from double the number of strikes. For example, for a single monopile, the predicted TTS (SELcum) range is 33 km, which increases to 39 km based on the cumulative exposure of two monopiles.	Marine Mammals	Noted.	N
NFOWFS3_025_043_140 723	9.13. For pin piles, in general, there is no increase in effect from multiple pin piles for marine mammals (due to the fleeing animal assumptions). For fish, there is an increase in the predicted effect zones, as expected. TTS (SELcum increases from 25 km to 36 km, for example.	Marine Mammals	Noted.	N
NFOWFS3_025_044_140 723	9.14. It is appropriate that simultaneous piling has also been considered, although please double check the TTS prediction for VHF cetaceans in Table 4-35, as this is incorrect.	Marine Mammals	VHF cetaceans TTS prediction has been updated based on new modelling results; see Appendix 12.3.	N
NFOWFS3_025_045_140 723	Section 5 Other Noise Sources 9.15. Small effect ranges (largely <100m, with the exception of suction dredging, rock placement and large vessels) have been predicted for other sources of noise (i.e., cable laying, suction dredging, trenching, rock placement and vessel noise). A fleeing animal receptor has been assumed for all marine mammals, and therefore the predicted effect ranges are minimal. Small effect ranges are predicted for fish receptors.	Marine Mammals	Noted.	Z

NFOWFS3_025_046_140 723	9.16. "Figure 5-2 (Appendix 12.2. Underwater Noise Modelling Report) presents a level against range plot for the two turbine sizes using the Tougaard et al. (2020) calculation, assuming an average 6 ms-1 wind speed". This formula represents a statistical model that was used to assess the correlation between sound pressure level (SPL) and various parameters (distance, wind speed, turbine size) for the data in the Tougaard study. However, the MMO considers that this is not suitable for estimation of the sound levels (SLs) @1m in a bespoke model, or as substitute for modelling the propagation loss to the far field. In particular, in terms of estimating propagation, the use of the formula would imply a loss of 23.7 log R, which is unrealistically large, and thus will lead to underestimation of the levels in the far field.	Marine Mammals	This is agreed to some extent: the Applicant would not recommend that this formula be used to predict noise levels at 1m from the pile, nor in the far field, e.g. beyond 500m at the closest. However, all estimations of impact are less than 100m, and so no prediction is made at this order of distances. It is worth noting that new research by Holme et al (2023) found that Tougaard et al. (2020) overestimated the noise measured near (70m) from a 6.3MW and an 8.3MW wind turbine. Data for larger turbines is not yet available.	N
NFOWFS3_025_047_140 723	Page 16 of 21 9.17. For UXO clearance the MMO notes that the maximum equivalent charge weight for the potential UXO devices that could be present within the North Falls OWF site boundary has been estimated as 698 kg + donor (which equates to 698.5 kg). This has been modelled alongside a range of smaller devices. In addition, low-order deflagration has been assessed, which assumes that the donor or shaped-charge (charge weight 0.5 kg) detonates fully to initiate a burnout of the explosive but without the follow-up detonation of the UXO.	Marine Mammals	Noted.	N

NFOWFS3_025_048_140 723	9.18. To estimate the potential impact from UXO detonation, an attenuation correction has been added to the Soloway and Dahl (2014) equations for the absorption over long ranges (i.e., of the order of thousands of metres), based on measurements of high intensity noise propagation taken in the North Sea and Irish Sea (section 5.3.1 of the report). The maximum PTS range calculated (based on the worst-case UXO) is 13 km for VHF cetaceans (SPLpeak criteria) (with a TTS range of 25 km). For fish, the maximum range is 890 m. The MMO has conducted a spot check of the worst-case predictions which look reasonable (a PTS prediction of ~14 km for VHF cetaceans assuming the methodology from Soloway and Dahl and no attenuation correction). This is standard for OWF developments.	Marine Mammals	Noted.	N
NFOWFS3_025_049_140 723	10. Appendix 12.3 Underwater Noise Technical Assessment. 10.1. Appendix 12.3 provides a helpful high-level summary of the underwater noise modelling (full details are in Appendix 11.2). An assessment of potential effects (and magnitude) has also been undertaken in this appendix, based on density estimates and reference populations, and the MMO defers to Natural England for comments on the suitability of the data presented for marine mammals.	Marine Mammals	Noted.	N

NFOWFS3_025_050_140 723	10.2. In relation to Table 1.14, the magnitude of effect for TTS (temporary hearing loss) from the cumulative exposure of one monopile in a 24-hour period, has been assessed as negligible for all marine mammal species. As an example, for harbour porpoise, an estimated 0.63% of the North Sea Management Unit reference population (based on the site-specific worst-case aerial annual density estimate) is at risk. However, this equates to 2,168 individual harbour porpoises at risk, so the numbers are far from insignificant. It is vital that appropriate mitigation is put in place to reduce the risk of potential impact on sensitive marine receptors, especially considering the cumulative effect from offshore wind development across UK waters.	Marine Mammals	All potential mitigation measures are being considered such including noise reduction measures (such as bubble curtains). Further information is provided within the Outline MMMP (document reference 7.7).	N
NFOWFS3_025_051_140 723	10.3. Please could the values in Table 1.24 be double checked for harbour porpoise and seals (the values for minke whale look correct based on an impact range of 0.1 km). For harbour porpoise, impact ranges are greater than 0.1 km (100 m) for some of the activities (i.e., 1.0 km for rock placement).	Marine Mammals	Assessments have been checked and updated in Appendix 12.4 Underwater Noise Technical Assessment (document reference 3.3.9).	N

NFOWFS3_025_052_140 723	11. Appendix 12.4 Unexploded Ordnance Clearance Information and Assessment 11.1. Paragraph 57 states: "The proposed mitigation measures for consideration in the MMMP for UXO clearance include, the use of low-order clearance techniques, such as deflagration, establishing a Page 17 of 21 monitoring zone and surveying prior to UXO clearance, the use of ADDs if any high-order detonations are required". The MMO recommends that viable noise abatement measures are also considered within the MMMP for UXO clearance. As noted in para 54 of the appendix, "there is the potential for injury to occur for harbour porpoise for a high-order clearance of UXO of higher than 55kg. Alternative mitigation or noise reduction options would be required (e.g. bubble curtains) to avoid injury to this European Protected Species (EPS), or, if not possible to wholly mitigate the potential for auditory injury, an EPS licence for injury would be applied for, at the time of the Marine Licence application". For an EPS licence to be issued, there must be no satisfactory alternatives.	Marine Mammals	reviewed and	itigation for UXO clearance has been d described further in the Outline ument reference 7.7).	N
NFOWFS3_025_053_140 723	11.2. Para 65 Minor Comment 11.3. In relation to disturbance for low-order clearance (the preferred clearance method) and Effective Deterrent Radius (EDR) paragraph 65 states: "As a precautionary approach, it has been assumed that there could be an estimated worst-case of 5 km disturbance range (78.54 km2) including vessels". Evidence to support the 5 km EDR	Marine Mammals	been added Unexploded	o why the 5km EDR has been used has to the text in Appendix 12.5 Ordnance Clearance Information and (document reference 3.3.10).	N

	must be provided; this this is standard for OWF developments.			
NFOWFS3_025_054_140 723	12. Chapter 13 Offshore Ornithology 12.1. The MMO defers to Natural England regarding the potential impacts to offshore ornithology and will maintain a watching brief on anything that may fall within the MMO's remint – such as DML conditions.	Offshore Ornithology	Noted.	N
NFOWFS3_025_055_140 723	13. Chapter 14: Commercial Fisheries 13.1. The main issues raised by those within the commercial fishing include problems of spatial squeeze leading to the displacement of fishing activity, exclusion from established fishing grounds, loss of fishing opportunity, gear conflict and an increased pressure on fish stocks in the area surrounding the project.	Commercial Fisheries	The likely significant effects on commercial fisheries as a result of displacement and exclusion from established fishing grounds has been considered for construction (Section 14.6.1.1 and Section 14.6.1.2 of Chapter 14 Commerical Fisheries), operation (Section 14.6.2.1, Section 14.6.2.2 and Section 14.6.2.3 of Chapter 14), decommissioning (Section 14.6.3 of Chapter 14) and cumulative effects (Section 14.7.3.1 and Section 14.7.3.2 of Chapter 14).	N
NFOWFS3_025_056_140 723	13.2. The report identifies an impact of 'minor adverse effects' on commercial fisheries, this could be disputed by those within the fishing industry as an understated impact assessment.	Commercial Fisheries	Available fisheries data, information from relevant publications and consultation with local fisheries stakeholders has informed the baseline. The methodology used to assess the potential impacts on commercial fisheries is provided in section 14.4.3 of Chapter 14 (Commerical Fisheries). The assessment of the likely significance of the effects of the Project on relevant commercial fisheries receptors caused by each identified impact is given in Section 14.6 of Chapter 14. The Project has proposed a wide range of embedded mitigation measures which will reduce impacts on commercial fishing and have been accounted for when identifying effect significance. These are listed in Section 14.3.3 of Chapter 14 and in the Outline FLCP (2023).	N

NFOWFS3_025_057_140 723	13.3. The issues have been identified as having 'minor adverse effects', again this could be disputed by those within the commercial fishing industry. Permanent habitat loss and the suspension of contaminated sediments in the water column could cause issues with commercially important fish stocks.	Commercial Fisheries	The likely significant effects arising from habitat loss and the suspension of sediments are assessed in Chapter 9 Marine Water and Sediment Quality (Volume I) (document reference 3.1.11) of the ES, Chapter 10 Benthic and Intertidal Ecology (Volume I) (document reference 3.1.12) of the ES and Chapter 11 Fish and Shellfish Ecology (Volume I) (document reference 3.1.13) of the ES.	N
NFOWFS3_025_058_140 723	13.4. The commercial fishing industry between The Wash and The Thames are currently expressing increased concerns, through various forms of media, over the increasing number of projects in this area at both local, and national level. 13.5. There are increased concerns amongst the industry that the spatial squeeze created by this, and other projects are having an adverse effect on their livelihood. Page 18 of 21	Commercial Fisheries	The cumulative likely significant effects on commercial fishing arising from the Project in conjunction with other projects in the area are assessed in Section 14.7.3 of Chapter 14 (Commerical Fisheries).	N
NFOWFS3_025_059_140 723	13.6. The MMO recommends early engagement with National Federation of Fishermen's Organisations (NFFO) and local harbour authorities and fishermen is encouraged, Including the early engagement with a Fisheries Liaison Officer. 13.7. The MMO will maintain a watching brief on anything that may fall within the MMO's remint – such as DML conditions.	Commercial Fisheries	The NFFO is a stakeholder of the CFWG with members directly involved in meetings. Consultation undertaken by the FLO has been summarised in Table 14.2 of Chapter 14 (Commerical Fisheries)	N
NFOWFS3_025_060_140 723	14. Chapter 15 Shipping and Navigation 14.1. The MMO defers to the Maritime and Coastguard Agency and Trinity House and relevant Harbour Authority's regarding the potential impacts on shipping and navigation that may occur because of the North Falls OWF. 14.2. The MMO will maintain a watching brief on anything that	Shipping and Navigation	Noted.	N

	may fall within the MMO's remint –			
	such as DML conditions.			
NFOWFS3_025_061_140 723	15. Chapter 16 Offshore Archaeology and Cultural Heritage 15.1. The MMO defers to Historic England regarding the potential impacts to offshore archaeology that may occur because of the North Falls OWF. 15.2. The MMO will maintain a watching brief on anything that may fall within the MMO's remint – such as DML conditions.	Offshore Archaeology and Cultural Heritage	Noted.	N
NFOWFS3_025_062_140 723	16. Chapter 29 Seascape, Landscape and Visual Impact Assessment (SLVIA) 16.1. The MMO defers to the statuary advice provided by the Natural England or Local Planning Authority regarding the potential impacts to the seascape that may occur because of the North Falls OWF. 16.2. The MMO will maintain a watching brief on anything that may fall within the MMO's remint – such as DML conditions.	Seascape, Landscape and Visual Assessment (SLVIA)	Noted.	N
NFOWFS3_025_063_140 723	17. Habitats Regulations Assessment 17.1. The MMO defers to the statuary advice provided by the relevant Statutory Nature Conservation Body's regarding the potential impacts to the protected features of the identified nature conservation areas that may occur because of the North Falls OWF. 17.2. The summary of potential effects screened into Table 6-1 of (document reviewed in point 7i) of the HRA for fish ecology during the construction, operation and decommissioning phases is appropriate.	Fish and Shellfish Ecology	Noted.	N

			1	1	
	17.3. The nearest SACs which have Annex II fish as qualifying features are outside the scope of the study area. I am therefore content that qualifying migratory fishes have been screened out but defer to Natural England as the Statutory Nature Conservation Body (SNCB) for further comment. Page 19 of 21 17.4. The MMO will maintain a watching brief on anything that may fall within the MMO's remint – such as DML conditions.				
NFOWFS3_025_064_1 723	18. Marine Conservation Zone (MCZ) Assessment 18.1. The MMO defers to the statuary advice provided by the relevant Statutory Nature Conservation Body's regarding the potential impacts to the protected features of the identified nature conservation areas that may occur because of the North Falls OWF. 18.2. The MMO agrees with the pressures screened into the MCZ assessment and notes that three MCZs were identified during the first stage of the screening assessment due to their proximity to the site (i.e., Blackwater, Crouch, Roach and Colne Estuaries MCZ, Kentish Knock East MCZ and Orford Inshore MCZ). The protected features of each MCZ are reported clearly and the potential impacts during construction, operation and maintenance, and decommissioning stages have been presented for each. 18.3. The MMO recommends that consideration also be given to the impact of paint flakes (as microplastic pollution), within the	Fish and Shellfish Ecology	Marine Water and Sediment Quality	Monitoring of the integrity of the North Falls infrastructure, including flaking paint, is included in the Offshore In-principle Monitoring Plan (document reference 7.10).	Y

	Kentish Knock MCZ when developing monitoring plans. 18.4. For the Blackwater, Crouch, Roach and Colne Estuaries MCZ, the protected features are the intertidal mixed sediments, native oyster (Ostrea edulis) beds, native oyster (O edulis) and Clacton Cliffs and foreshore. For Kentish Knock MCZ, the protected features are the subtidal sand, subtidal coarse sediments and subtidal mixed sediments. For Orford Inshore MCZ the protected features are the subtidal mixed sediments. As none of the protected features are fin-fish receptors it is beyond my remit to comment on whether the pressures screened into the assessment are appropriate, and therefore defer to Natural England as the Statutory Nature Conservation Body (SNCB) to comment on the suitability of the assessment approach. 18.5. The MMO will maintain a watching brief on anything that may fall within the MMO's remint – such as DML conditions.			
NFOWFS3_025_065_140 723	19. Conclusion 19.1. The MMO welcomes the progress the Applicant has made to date to assess the environmental impacts of the North Falls OWF. The MMO requires the points raised in this response to be addressed within the ES. Your feedback We are committed to providing excellent customer service and continually improving our standards and we would be delighted to know what you thought of the service you have received from us. Please help us by taking a few minutes to	N/A	Noted.	N

	complete the following short survey (hiips://www.surveymonkey.com/r/ MMOMLcustomer). If you require any further information please do not hesitate to contact me using the details provided below.				
NFOWFS3_026_001_170 723	RE: North Falls Offshore Wind Farm – Response to Statutory Consultation Thank you for the opportunity to review the Preliminary Environmental Information Report and associated documents for the North Falls Offshore Wind Farm Project. The detail provided has been helpful for the Five Estuaries Offshore Wind Farm Project team to be able to assess the potential cumulative environmental effects and benefits of both projects. The Five Estuaries Project team look forward to continuing to cooperate with the North Falls team in order to consider ways to minimise impacts on the local community and on the onshore and offshore environment where possible. This will be a positive factor as the Five Estuaries team progresses its project, to support the government's target to achieve 50 gigawatts of offshore wind capacity in the UK by 2030 in line with the revised draft National Policy Statements, which are expected to be designated this year.	Need for the Project	Technical Consultation	Noted. The Applicant has worked with Five Estuaries throughout the pre-application stage to develop co-ordinated proposals as discussed in Section 5.3.1 and Section 5.7 of Chapter 5 (Project Description).	Y

NFOWFS3_027_001_240	Dear Tom Crawford,	Introduction	Noted.	N
523	Re: North Falls Offshore Wind Farm: Statutory Consultation Thank you for your letter notifying the Canal & River Trust of the consultation with regards to the North Falls Offshore Wind Farm. We are the charity who look after and bring to life 2000 miles of canals & rivers. Our waterways contribute to the health and wellbeing of local communities and economies, creating attractive and connected places to live, work, volunteer and spend leisure time. These historic, natural, and cultural assets form part of the strategic and local green-blue infrastructure network, linking urban and rural communities as well as habitats. By caring for our waterways and promoting their use we believe we can improve the wellbeing of our nation. The Trust is a prescribed consultee in the Nationally Significant Infrastructure Projects (NSIPs) process.			
NFOWFS3_027_002_240 523	The Trust has reviewed your proposals and, considering the proposed works would not be within close proximity to our network, the Canal & River Trust have no comments to make on the proposals. Kind regards Anne	N/A	Noted.	N

NFOWFS3_028_001_150 623	Good afternoon,	N/A	Noted.	N
023	Please find attached our			
	comments in respect of the below			
	notification.			
	Kind regards			
	For the attention of Tom Crawford - Offshore Consents Manager			
	[By email: contact@northfallsoffshore.com]			
	contact@nortmansonshore.com			
	15 June 2023			
	Dear Mr Crawford			
	Section 42 of the Planning Act 2008 and/or Regulation 13 of the			
	Infrastructure Planning			
	(Environmental Impact Assessment) Regulations 2017			
	Assessment) Regulations 2017			
	Proposed offshore wind farm			
	NORTH FALLS OFFSHORE			
	WIND FARM, EAST ANGLIA			
	Thank you for your notification of			
	15 May 2023 seeking the views of			
	the Coal Authority on the above.			
	I have checked the site location			
	plan against the information held by the Coal Authority and can			
	confirm that the proposed			
	development site is located			
	outside of the defined coalfield.			
	On this basis, the Planning team at			
	the Coal Authority have no comments to make.			
	Please do not hesitate to contact me if you would like to discuss this			
	matter further.			
	Voure singeraly			
	Yours sincerely			

		T	
The Coal Authority Planning Team			
Disclaimer			
The above consultation response			
is provided by The Coal Authority			
as a Statutory Consultee and is			
based upon the latest available			
data and the data of the manner			
data on the date of the response,			
and electronic consultation records			
held by The Coal Authority since 1			
April 2013. The comments made			
are also based upon only the			
information provided to The Coal			
Authority by the Local Planning			
Authority and/or has been			
published on the Council's website			
for consultation purposes in			
relation to this specific planning			
application. The views and			
conclusions contained in this			
response may be subject to review			
and amendment by The Coal			
Authority if additional or new			
data/information (such as a			
revised Coal Mining Risk			
Assessment) is provided by the			
Local Planning Authority or the			
Applicant for consultation			
purposes.			
P . P			

NFOWFS3_029_001_220 623	North Falls Offshore Wind Farm Limited 22 June 2023 Windmill Hill Business Park Whitehall Way Swindon Wiltshire SN5 6PB Sent by email to: contact@northfallsoffshore.com Dear Sir/Madam, North Falls Offshore Wind Farm Project ("North Falls Project") Public Consultation We acknowledge your consultation for the North Falls Project. Low Carbon has an ongoing project which could be impacted by the North Falls Project. Attached to this letter is a decision notice (reference: 22/02117/FUL) and plan (LCS034- PLE-01_rev14) for a solar farm under your proposed route within the Tendring District, Essex; more particularly, to be located on land currently registered at HM Land Registry with freehold title number EX706653. The solar farm is known as Thorpe Park Solar Farm and is owned by Low Carbon Solar Farm 12 Limited (company number 13097982) (the "Company").	Infrastructure and Other Users	Noted. The Applicant has refined its onshore cable route away from the boundary of the Low Carbon project (reference: 22/02117/FUL). Haul routes for the project are still located within the Low Carbon project boundary.	N
NFOWFS3_029_002_220 623	With respect to the North Falls Project, Low Carbon does have concerns on the proposal and would like to engage further with you during your own respective development process. We are open to further discussions following the conclusion of the current consultation period in order to preserve Low Carbon's current position.	Technical Consultation		

NFOWFS3_029_003_220 623	Low Carbon's concerns relate to: (i) part of your potential cable route being situated within our site boundary;	Infrastructure and Other Users	Noted.	N
NFOWFS3_029_004_220 623	(ii) the impact on our construction and operational plans for the main site; and	Infrastructure and Other Users		
NFOWFS3_029_005_220 623	(iii) any potential impact on the solar farm point of connection and the ability to export into the electricity network.	Infrastructure and Other Users		
NFOWFS3_029_006_220 623	The Company is expected to start and complete construction within the next 12 months. As the area could be a potential construction site, it is advised to make early contact for access arrangements for surveyors. Furthermore, the area for the solar farm will undergo a change from what exists today and so this will need to be considered for your assessment work.	Infrastructure and Other Users		
NFOWFS3_029_007_220 623	We responded to the recent Five Estuaries Offshore Wind Farm Limited statutory consultation in a similar manner to this letter and have recently met with members of the RWE team to discuss our respective proposed developments. The North Falls Project was mentioned during this meeting and it was acknowledged by us and the RWE team that a future tripartite meeting to discuss the co-existence of all three projects would be beneficial. Please do not hesitate to contact me or Andrew Thomassen should you have any queries related to this letter. Yours sincerely, Grace Humphries Business Development Manager	N/A		

	CC:			
NFOWFS3_030_001_270 623	Great Horkesley Parish Council supports the OffSET Task Force and the campaigns for an offshore grid. We fully support the concept of North Sea wind farms to generate abundant, cheap, clean electricity.	Need for the Project	The feasibility of an offshore connection is subject to the outcomes of the OCSS which is expected to conclude in March 2025. Therefore radial transmission to an onshore connection location must be included in the North Falls DCO application.	N
NFOWFS3_030_002_270 623	Our strongly preferred approach is an upgrade to the offshore route.	Site Selection and Assessment of Alternatives		
NFOWFS3_030_003_270 623	By doing so, the environmental damage and disruption that would be caused to East Anglia by the installation of onshore cables would be minimised.	Onshore Ecology		

NFOWFS3_030_004_270 623	Great Horkesley Parish Council is pleased to learn that an offshore route is now to be considered and formally compared with the intrusive overland route, which it continues to oppose. Thanks again,	Site Selection and Assessment of Alternatives		
	Teri Duckworth Parish Clerk & RFO Great Horkesley Parish Council			

NFOWFS3_031_001_130	11th July 2023	Introduction	Noted.	N
723	Email: northfallsoffshore.com			
	Email: northalisonshore.com			
	To whom it may concern			
	Re: North Falls Offshore Wind			
	Farm: Statutory Consultation			
	Theolesses for institute Hemisch			
	Thank you for inviting Harwich Haven Authority to provide			
	feedback on the North Falls Wind			
	Farm Project.			
	Harwich Haven Authority			
	acknowledges the importance of			
	renewable energy and is			
	supportive of all initiatives that			
	reduce carbon emissions and are			
	aligned to net zero targets.			
	As the Statutory Harbour Authority			
	and Trust Port our core remit is to			
	provide safety of navigation to			
	vessels using the waters within our			
	150 square mile jurisdiction area.			
	Our jurisdiction covers a 12-mile approach to Harwich Harbour, the			
	River Stour, and parts of the River			
	Orwell. We are responsible for the			
	conservancy of the main			
	navigation channel into the Haven,			
	which requires an ongoing			
	maintenance dredging programme			
	to maintain the depth required to accommodate the very largest			
	container vessels in operation.			
	We operate a 24/7, 365 day a year			
	service to provide pilotage			
	services to five port operators in the Haven, Port of Felixstowe,			
	Navyard, Harwich International			
	Port, Port of Mistley and the Port			
	of Ipswich. The continuous, and			
	uninterrupted flow, of vessels into			
	the Port of Felixstowe is critical to			
	UK trade, with almost 40% of all			

containerised goods entering the		
UK via this gateway. Leisure		
vessel activity is also very high		
within our areas of jurisdiction, and		
we estimate that more than 10,000		
yachts pass through the		
approaches and Harwich Harbour		
each year.		
The largest trade gateway in the		
UK		
Later in 2023 we will complete a		
£130m large-scale project to		
deepen the navigational approach		
channel into Harwich Harbour to		
16.5m BCD. The purpose of the		
project is to accommodate the		
ever-growing breed of Megamax		
vessels in operation that (400		
metres with a draught of 17.5		
metres) call at the Haven ports.		
With a deeper navigational		
channel, and new deeper berths at		
the Port of Felixstowe, we		
envisage the combined value		
proposition will attract many more		
shipping lines to use the Port of		
Felixstowe and therefore vessels		
arriving and departing the Haven		
will increase. The worldwide		
maritime industry trend for less		
ship movements but larger vessels		
carrying equivalent tonnage looks		
set to continue.		
The Haven trade gateway is		
critical to UK PLC and our pilotage		
services cannot be interrupted.		
Delayed or missed Megamax		
arrivals would cause significant		
cost implications to Harwich Haven		
Authority. The ports industry is		
highly competitive and dissatisfied		
shipping lines are highly likely to		
look for an alternative port,		
potentially in Europe, if they do not		
receive the service standards they		
require.		
Hamish Haven Authority - Tour		
Harwich Haven Authority's Trust		

Port stakeholder values		
As a Trust Port we operate		
commercially but we do not have		
shareholders, which allows us to		
reinvest a percentage of our		
surplus profits back into the Haven		
for the benefit of stakeholders. We		
define a stakeholder as anyone		
that uses, or has an interest in, the		
Haven and/or our operations.		
Harwich Haven Authority acts as a		
custodian of the Haven, and we		
have responsibility to Protect,		
Conserve and Improve our area of		
jurisdiction.		
,		
We understand that regulatory		
bodies such as Natural England		
and the Environment Agency will		
have been included within your		
consultation. We would therefore		
echo any concerns they may have		
raised in relation to the legally		
protected and designated areas		
that exist within the Haven.		

NFOWFS3_031_002_130 723	PRELIMINARY ENVIRONMENTAL INFORMATION REPORT Chapter 15 Shipping and Navigation Section Topic Comment 15.6.1.6 Impact 6: Impact on vessels transiting to/from local ports in the area, including use of approach channels, port operations and pilotage 109. The Applicant has engaged with PLA and HHA regarding cable routeing and has implemented changes to the offshore cable corridor to minimise impacts on the key areas raised as being of concern. Changes made include: • Shifting the offshore cable corridor further south from the Sunk Pilot Station; Chapter 15 Shipping and Navigation Page 42 of 73 • Shifting the offshore cable corridor south of the Harwich Deep Water Channel; • TSS crossing angle moved closer to 90 degrees; and • Offshore cable corridor moved as far as practicable from the Sunk roundabout feature Due to draught of vessels and future dredging, consider a maximum draught of 20m plus 10% UKC, as such minimum depth required above the cables is 22m BCD. Section Topic Comment 110. During the construction phase, the vessels associated with cable installation may impact vessel transits and pilotage operations. However, any potential impact will be temporary and spatially limited to the area around the operation. Liaison will take place with PLA and HHA to agree	Shipping and Navigation	Consultation has been undertaken with shipping stakeholders throughout the pre-application process and is discussed in Chapter 15 Shipping and Navigation (Volume I) (document reference 3.1.17) of the ES. Compliance with MGN 654 including in relation to reduction in under keel clearance is included as mitigation in Section 15.3.3 and this requirement is considered in the impact assessment in Section 15.6. Collision risk and disruption from project vessels during construction is considered in Sections 15.6.1.4 and 15.6.1.6. This includes consideration of the Outline Navigation Installation Plan (NIP) (document reference 7.24). Collision risk and disruption from project vessels during operation is considered in Sections 15.6.2.4 and 15.6.2.6. This includes consideration of the Outline NIP (document reference 7.24). Further consultation has been undertaken with Harwich Haven Authority HHA, PLA, and London Gateway including via the Sunk User Group in relation to impacts on port access and pilot operation. Impact on vessels transiting to/from local ports in the area, including use of approach channels, port operations and pilotage is assessed in Section 15.6.2.6. This includes consideration of the Outline NIP (document reference 7.24). Interaction with subsea cables is assessed in Section 15.6.2.7. Additional resourcing is discussed in the Outline NIP (document referenceRef TBC7.24).	Y
	impact will be temporary and spatially limited to the area around the operation. Liaison will take place with PLA and HHA to agree appropriate arrangements for cable installation in sensitive			
	areas, including in relation to promulgation of information. This			

is of particular importance for	
works required in the vicinity of the	
Sunk Pilot Station given its	
location relative to the offshore	
cable corridor. Construction	
operations must not impede vessel	
traffic movements within the Sunk	
area or normal operations such as	
pilot boarding	
15.6.2.6 Impact 6: Impact on	
vessels transiting to/from local	
ports in the area, including use of	
approach channels, port	
operations and pilotage 15.6.2.6	
Impact 6: Impact on vessels	
transiting to/from local ports in the	
area, including use of approach	
channels, port operations and	
pilotage Maintenance operations	
must not impede vessel traffic	
movements within the Sunk area	
or normal operations such as pilot	
boarding	
170. The Applicant has engaged	
with PLA and HHA regarding cable	
routeing and has implemented	
changes to the offshore cable	
corridor to minimise impacts on the	
key areas raised as being of	
concern. Changes made include: •	
Shifting the offshore cable corridor	
further south from the Sunk Pilot	
Station; • Shifting the offshore	
cable corridor south of the Harwich	
Deep Water Channel; • TSS	
crossing angle moved closer to 90	
degrees; and • Offshore cable	
corridor moved as far as	
practicable from the Sunk	
roundabout feature. Due to	
draught of vessels and future	
dredging, consider a maximum	
draught of 20m plus 10% UKC, as	
such minimum depth required	
above the cables is 22m BCD	
Section Topic Comment	
171. During the operational phase,	
the vessels associated with any	
cable maintenance may impact	
vessel transits and pilotage	

operations. Surface operations		
associated with cable maintenance		
during the operational phase are		
likely to be less frequent than		
during construction and again with		
temporary and spatially limited		
impact. Liaison will take place with		
PLA and HHA to agree appropriate		
arrangements for cable		
maintenance in sensitive areas,		
including in relation to		
promulgation of information. This		
is of particular importance for		
works required in the vicinity of the		
Sunk Pilot Station given its		
location relative to the offshore		
cable corridor. Maintenance		
operations must not impede vessel traffic movements within the Sunk		
area or normal operations such as		
pilot boarding		
5.6.2.6.3 Impact significance 176.		
It is recognised that impacts on		
port access and pilotage		
operations have been raised as a		
key concern notably by the HHA		
and PLA. On this basis the		
Applicant is in the process of		
Project Design refinement of the		
offshore cable corridor and will		
continue to liaise with and consult		
the MCA, Trinity House, PLA and		
HHA to ensure the impact is		
minimised and ALARP. Based on		
suitable mitigation being agreed,		
the impact is assessed as being		
Tolerable for the purposes of		
PEIR, noting that further		
assessment at ES stage will be		
needed to determine the extent of		
mitigation required to ensure the		
impact is ALARP. Not in		
agreement with the impact being		
assessed as tolerable. It is not		
currently tolerable or tolerable with		
mitigation proposed.		
Section Topic Comment		
15.6.2.7 Impact 7: Interaction with		
subsea cables including cable		

	rotection 177. Any changes in		
wa	ater depth associated with the		
ins	stalled cable protection could		
	ad to an increase in under keel		
	teraction risk for third party		
	essels navigating in the area.		
	his was raised as a key concern		
	y local port authorities notably the		
	HA and PLA during consultation		
wit	ith the Sunk VTS User Group.		
Du	ue to draught of vessels and		
	ture dredging, consider a		
	aximum draught of 20m plus		
	0% UKC, as such minimum depth		
	equired above the cables is 22m		
	CD.		
	79. MGN 654 requires that any		
	eduction in water depth of greater		
	an 5% must be discussed with		
the	e MCA to agree appropriate		
mit	itigation. Changes in water depth		
	ithin any "areas of critical depths		
	relation to under keel clearance"		
	cluding routeing measures and		
	ort approaches must also be		
	scussed with the MCA		
	egardless of the extent of the		
Cn:	nange. This aligns with		
CO	onsultation input received during		
	e cable corridor selection		
	rocess, with any reductions in		
wa	ater depth in the dredged		
ch	nannels raised as being of		
	oncern. 5% in not acceptable in		
	e Sunk area as vessel navigation		
	ith only 10% UKC		
Wit	1070 OILO		
So	ection Topic Comment		
	82. It should also be considered		
	at the offshore cable corridor and		
	terconnector cable corridor		
	tersect areas of high commercial		
	essel density, the Sunk TSS East		
an	nd South lanes, and the		
	recautionary areas. The route		
	as been designed to minimise		
	npacts, such as by crossing TSS		
	nes at close to right angles		
	here possible. In an emergency		
Inc	cident it may be necessary for a		

	sel to drop anchor to avoid		
drifti	ting into danger e.g., towards		
winc	d turbines.		
The	e locations of charted cables		
	uld be taken into consideration		
	en deciding whether to drop		
	hor in such a situation,		
	vever the prevention of an		
	sion or collision incident would		
	e priority over the risk of		
	ential cable interaction. Vessel		
	y anchor in any area in an		
	ergency, this may include		
	dging their anchor.		
	6. As per Section 15.3.3, the		
	plicant will determine suitable		
	le burial depths and protection		
	asures via a cable burial risk		
	essment process. This will		
	sider the vessel densities,		
	es, and sizes across and in the		
	nity of the offshore cable		
	ridor and interconnector cable		
	ridor to ensure protection /		
	ial is sufficient relative to the		
	ential anchor sizes that may be		
	d in the area. The full NRA will		
	ude a more detailed		
	essment of vessel anchoring.		
This	s must consider future dredging		
	ne deep-water channels to		
	neters, and then allow for an		
addi	litional 10% UKC.		
Sect	ction Topic Comment		
	6.2.7.3 Impact significance 188.		
	recognised that reductions in		
	er depth have been raised as a		
	concern notably by the HHA		
	PLA. The need to consult with		
	MCA in the event that under		
	I clearance is reduced by more		
	n 5% is secured under MGN		
	, however further assessment		
	onsidered necessary of the		
	act given the sensitivity of the		
	a including routeing measures,		
	le traffic volumes, port		
	roaches and limited under keel		
	arance for deep-draughted		
Cica	aranoc for accep araugined		

vessels at present. Based on suitable mitigation being agreed, the impact is assessed as being Tolerable for the purposes of Project			_	
the impact is assessed as being Tolerable for the purposes of PEIR, noting that further assessment at ES stage will be needed to determine the extent of mitigation required to ensure the impact is ALARP. As above, 5% loss of UKC is not acceptable in the Surfix area. I stage that the surfix area. I vessels transiting tofrom local ports in the area, including use of approach channels, port operations and pilotage 216. It is anticipated that this impact will be similar in nature to the equivalent construction phase impact (see Section 15.6.1.6) noting similar activities will be occurring and mitigations in place, and a similar scenario in terms of increased vessel numbers. As discussed in that section, liston with HHA and PLA would be undertaken to agree including in relation to promulgation of information. Additional VTS coverage may be required. This will include resources and equipment. Section Topic Comment 15.5.3.6.3 Impact significance 219. It is recognised that impacts on port access and pilotage operations have been raised as a key concern notably by the HHA and place of the impact is promuled be seven and will continue to listes with and consult the MCA, Trinity House, PLA and HHA to ensure the impact is				
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the impact is assessed as being	the impact is assessed as bei	g		

Tolerable for the purposes of		
PEIR, noting that further		
assessment at ES stage will be		
Chapter 15 Shipping and		
Navigation Page 56 of 73 needed		
to determine the extent of		
mitigation required to ensure the		
impact is ALARP. Not in		
agreement with the impact being		
assessed as tolerable. It is not		
currently tolerable or tolerable with		
mitigation proposed.		
15.7.3.5 Cumulative Impact 5:		
Impact on vessels transiting		
to/from local ports in the area,		
including use of approach		
channels, port operations and		
pilotage 251. Vessels or activities		
associated with the operation of		
North Falls may restrict or hinder		
third party traffic access to local		
ports and facilities, including		
approach channels and pilotage.		
Additional activities and vessels		
associated with other		
developments may increase the		
impact on a cumulative basis.		
Operations must not impede		
vessel traffic movements within the		
Sunk area or normal operations		
such as pilot boarding		
out of photogram and		
Section Topic Comment		
15.7.3.5.3 Impact significance 258.		
It is recognised that impacts on		
port access and pilotage		
operations have been raised as a		
key concern notably by the HHA		
and PLA. On this basis the		
Applicant is in the process of		
Project Design refinement of the		
offshore cable corridor and will		
continue to liaise with and consult		
the MCA, Trinity House, PLA and		
HHA to ensure the impact is		
minimised and ALARP. Based on		
suitable mitigation being agreed,		
the cumulative impact is assessed		
as being Tolerable for the		
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considered necessary of the impact given the sensitivity of the area including routeing measures, large traffic volumes, port			
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area including routeing measures, large traffic volumes, port			
large traffic volumes, port			
approaches and limited under keel			
clearance for deep-draughted	clearance for deep-draughted		
vessels at present. Based on			

suitable mitigation	on being agreed,		
the cumulative in	npact is assessed		
as being Tolerab	ole for the		
purposes of PEI	R, noting that		
further assessm will be needed to	ent at ES stage		
extent of mitigati			
ensure the impa	ct is ALARP. Not		
in agreement wit	th the impact being		
assessed as tole	erable. It is not		
currently tolerab	le or tolerable with		
mitigation propos	sed		

Appendix 15.1 Navigational Risk O04447078-02 Appendix 15.1-1 Navigational Risk O04447078-02 Appendix 15.1-1 Navigational Risk Appendix 15.1 Navigational Risk Assessment Baseline pdf	Appendix 15.1 Navigational Risk 004447078-02_Appendix-15.1 Navigational Risk 004447078-02_Appendix-15.1 Navigational Risk 004447078-02_Appendix-15.1 Navigational-Risk-Assessment-Baseline.pdf
6.1.3.1 Vessel Length Figure 6.16	mainly at the entrances/exits of the precautionary areas (as seen in Figure 4.2). VTS with HHA SHA is operated 24 hours a day by HHA. 70. It is also noted that there are sand waves in the study area which influence navigation in the area. These form in several locations within the area and reach their maximum amplitude after periods of calm, settled weather, resulting in least depths over them at Neap tides. Frequent and rapid changes of depths can occur in the main ship channels. Please note that if there is a significant change in the channel depth / location, shipping channels may be moved to take advantage of the deepest available depth of water. 6.1.3.1 Vessel Length Figure 6.16
6.1.3.1 Vessel Length Figure 6.16	6.1.3.1 Vessel Length Figure 6.16 illustrates the distribution of vessel

lengths record	ded during each		
survey period	. This table does not		
	number of Ultra		
	ner Vessels using the		
area. There is			
	tween a 200m vessel		
	ressel. Please can		
	extended to show/		
	other sizes of ships		
	t the bottom end of		
	ase break down the		
50m box. For	example, there is a		
significant diff	ference between a 50		
offshore vess	el and 10-meter		
vacht.			
7			
Section Topic	Comment		
	g the proportion of		
	hich a length was not		
	average length of		
	the study area		
	nter and summer		
	s was 165m and		
	tively. The difference		
in average ve	ssel length between		
the two surve	y periods may be		
attributed to the	he greater presence		
	ational vessels in the		
	od This number has		
no relevance			
	e in any way for the		
vessels using			
	.17 presents a plot of		
	cks recorded during		
	survey periods,		
	by vessel length. As		
	eed breaking down.		
	essel Draught		
	Vinter and Summer		
2022) 154. Fi	gure 6.19 presents a		
	ssel tracks recorded		
· · · · · · · · · · · · · · · · · · ·	rvey periods, colour-		
	sel draught. Again,		
	aking down. HHA		
	eive vessels up to		
	this is a stark		
	m a 9m draught		
vessel. As su	ch the image and text		
are not repres			
155. Similar to	o the vessel length		

distribution, the largest vessels by		
draught were typically commercial		
vessels associated with the TSS		
routes and the smaller vessels		
were typically wind farm or		
recreational vessels seen in the		
vicinity of the array areas and		
Greater Gabbard and Galloper.		
Pilot vessels to the west of the		
study area were also among the		
vessels with smallest draught. It is		
worth noting that pilot vessel are		
attending vessels of all draughts,		
and so their own draught is not		
relevant.		
Section Topic Comment		
B.3.3 Vessel Length 197. The		
vessel traffic recorded during the		
12-month period within the study		
area is shown in Figure B.7,		
colour-coded by vessel length As		
above, this need breaking down.		
199. The average vessel length		
recorded during the 12-month		
period was 144m. The largest		
vessels recorded measured 400m,		
which were container ships. This		
number has no relevance as it is		
not representative in any way for		
the vessels using the area.		
Annex C Risk Control Log Impact		
2: Vessel displacement There is		
currently not enough project detail		
for the cable route to assess this.		
Additionally, control measures		
have not be discussed. As such		
Risk cannot be stated as tolerable.		
Impact 3: Increased vessel to		
vessel collision risk (third party to		
third party) There is currently not		
enough project detail for the cable		
route to assess this. Additionally,		
control measures have not be		
discussed. As such Risk cannot be		
stated as tolerable.		
Impact 4: Increased vessel to		
vessel collision risk (third party to		
project vessel) There is currently		
not enough project detail for the		

cable route to assess this.			
Additionally, control measures			
have not be discussed. As su			
Risk cannot be stated as toler			
Think duffliot be stated do tolor	3510.		
Section Tonic Comment			
Section Topic Comment			
Impact 6: Impact on vessels			
transiting to/from local ports in			
area, including use of approach	h		
channels, port operations and			
pilotage There is currently not			
enough project detail for the o			
route to assess this. Additiona			
control measures have not be			
discussed. As such Risk cann	ot be		
stated as tolerable.			
Operational Phase Impact 2:			
Vessel displacement There is			
currently not enough project of	etail		
for the cable route to assess t	nis.		
Additionally, control measures			
have not be discussed. As su			
Risk cannot be stated as toler			
Impact 3: Increased vessel to	3510.		
vessel collision risk (third part	, to		
	7 10		
third party)			
There is currently not enoug			
project detail for the cable rou			
assess this. Additionally, cont			
measures have not be discus			
As such Risk cannot be stated	as		
tolerable.			
Impact 4: Increased vessel to			
vessel collision risk (third part	/ to		
project vessel) There is current			
not enough project detail for the			
cable route to assess this.			
Additionally, control measures			
have not be discussed. As su			
Risk cannot be stated as toler	able.		
Section Topic Comment			
Impact 6: Impact on vessels			
transiting to/from local ports in			
area, including use of approach			
channels, port operations and			
pilotage There is currently not			
enough project detail for the o			
route to assess this. Additiona			
control measures have not be			
Control measures have not be			

discussed. As such Risk cannot be stated as tolerable. Impact 7: Interaction with subsea cables including cable protection There is currently not enough project detail for the cable route to assess this. Additionally, control measures have not be discussed. As such Risk cannot be stated as tolerable. Yours faithfully William Barker Marine Director (Harbour Master)				
Impact 7: Interaction with subsea cables including cable protection There is currently not enough project detail for the cable route to assess this. Additionally, control measures have not be discussed. As such Risk cannot be stated as tolerable. Yours faithfully William Barker		discussed. As such Risk cannot be		
cables including cable protection There is currently not enough project detail for the cable route to assess this. Additionally, control measures have not be discussed. As such Risk cannot be stated as tolerable. Yours faithfully William Barker				
There is currently not enough project detail for the cable route to assess this. Additionally, control measures have not be discussed. As such Risk cannot be stated as tolerable. Yours faithfully William Barker		cables including cable protection		
project detail for the cable route to assess this. Additionally, control measures have not be discussed. As such Risk cannot be stated as tolerable. Yours faithfully William Barker		There is currently not enough		
measures have not be discussed. As such Risk cannot be stated as tolerable. Yours faithfully William Barker		project detail for the cable route to		
As such Risk cannot be stated as tolerable. Yours faithfully William Barker		measures have not be discussed.		
Yours faithfully William Barker		As such Risk cannot be stated as		
William Barker		tolerable.		
William Barker		Yours faithfully		
William Barker Marine Director (Harbour Master)		Tours faithfully		
William Barker Marine Director (Harbour Master)				
William Barker Marine Director (Harbour Master)				
William Barker Marine Director (Harbour Master)				
Warine Director (Harbour Master)		William Barker		
		Marine Director (Harbour Master)		

NFOWFS3_032_001_140 723	Please find attached the UK Health Security Agency's response to the above consultation. Kind regards Ms Carol Richards NSIP Admin Team Environmental Hazards and Emergencies Department Radiation, Chemical and Environmental Hazards UK Health Security Agency Carol.richards@ukhsa.gov.uk www.gov.uk/ukhsa Follow us on Twitter @UKHSA Environmental Hazards and Emergencies Department Seaton House, City Link London Road Nottingham, NG2 4LA nsipconsultations@ukhsa.gov.uk www gov uk/ukhsa Your Ref: 004788663-01 Our Ref: 63518CIRIS FREEPOST NORTH FALLS	Human Health	Noted. All four themes (access,; traffic and trasnport; socioeconomi; land use) have been addressed in Chapter 28 (Human Health) and the following chapters of the ES as relevant: Chapter 22 Land Use and Agriculture (Volume I) (document reference 3.1.24), Chapter 27 Traffic and Transport (Volume I) (document reference 3.1.29) and Chapter 31 Socio-economics (Volume I) (document reference 3.1.33).	N
	NSIP Admin Team			
	Emergencies Department			
	Environmental Hazards			
	www gov uk/ukhsa			
	Your Ref: 004788663-01			
	14th July 2023 Dear Sirs			
	Nationally Significant Infrastructure			
	Project			
	Public Consultation Section 42			
	Stage			
	Thank you for your consultation regarding the above development.			
	The UK Health Security Agency			
	(UKHSA) welcomes the			
	opportunity to comment on your			
	proposals and Preliminary			
	Environmental Information Report			
	(PEIR) at this stage of the			
	Nationally Significant Infrastructure Project (NSIP). Please note that			
	we request views from the Office			
	for Health Improvement and			
	Disparities (OHID) and the			

response provided is se	ent on		
behalf of both UKHSA a	and OHID.		
Please note that we have	ve replied		
to earlier consultations	as listed		
below and this response	e should be		
read in conjunction with	that earlier		
correspondence:			
Request for Scoping O	oinion		
13/08/2021			
The health of an individ			
population is the result			
complex interaction of a			
range of different determ			
health, from an individu			
make-up to lifestyles ar			
behaviours, and the cor			
local economy, built an			
environments to global			
trends. All development			
some effect on the dete			
health, which in turn wil the health and wellbein			
general population, vulr			
groups and individual p			
Although assessing imp			
health beyond direct eff			
for example emissions			
road traffic incidents is			
there is a need to ensur			
proportionate assessme			
on an application's sign			
effects.			

723	We have assessed the submitted documentation and wish to make	Onshore Air	The monitoring data carried out by Tendring	N
	the following comments: 2 Environmental Public Health We have considered the submitted documentation and can confirm that we are satisfied with the overall approach taken in preparing the Environmental Impact Assessment (EIA) and the conclusions drawn. We wish to make the following comments: We would note that although it does not affect the results of the assessment, the developer has stated that the annual mean NO2 Objective of 40µg.m-3 has been not exceeded at any diffusion tube location across the five-year period, whereas the data presented indicate that the annual monitored concentrations at three of the diffusion tube monitoring locations from 2017 exceed the annual mean NO2 objective; in our view this statement should be corrected both within the Air Quality chapter and throughout the submission. Reducing public exposures to non- threshold pollutants (such as particulate matter and nitrogen dioxide) below air quality standards has potential public health benefits. We support approaches which minimise or mitigate public exposure to non- threshold air pollutants, address inequalities (in exposure), and maximise co-benefits (such as physical exercise) and encourage their consideration during development design, environmental and health impact assessment, and development consent.	Quality	District Council has been updated since the PEIR, including description of the monitoring results including in Section 20.5.	
	In relation to EMF potential human health impact, please specify in			

	section 28.5.9 that the magnetic field range quoted is based on typical levels calculated at 1 metre above ground level for buried 400 kV cables.			
NFOWFS3_032_003_140 723	Human Health and Wellbeing This section of OHIDs response, identifies the wider determinants of health and wellbeing we expect the Environmental Statement (ES) to address, to demonstrate whether they are likely to give rise to significant effects. OHID has focused its approach on scoping determinants of health and wellbeing under four themes, which have been derived from an analysis of the wider determinants of health mentioned in the National Policy Statements. The four themes are: • Access • Traffic and Transport • Socioeconomic • Land Use	Introduction	Noted. All four themes have been addressed in Chapter 28 (Human Health) and the following chapters of the ES as relevant: Chapter 22 Land Use and Agriculture (Volume I) (document reference 3.1.24), Chapter 27 Traffic and Transport (Volume I) (document reference 3.1.29) and Chapter 31 Socio-economics (Volume I) (document reference 3.1.33).	N

NFOWFS3_032_004_140 723	Having considered the submitted consultation documents OHID wish to make the following specific comments and recommendations: 3 Chapter 27 Traffic and Transport Link screening We note the use of the Guidelines for the Environmental Assessment of Road Traffic (GEART) and welcome the ongoing discussions within the traffic and transport Expert Topic Group (ETG) meetings. The assessment uses GEART to screen and allocate sensitivity for the 42 separate highway sections known as links. This is reported within Table 27.17 Link screening. Link ID 5 reports a concentration of sensitive receptors along the link including residential properties, a public house and a shop. The link is also crossed by PRoW and has limited separation from traffic which is provided with a narrow footway only along some of the link. Route ID 5 is therefore assessed as having high sensitivity and reports a 12% increase in all vehicles' peak movements. GEART requires sensitive links that are showing greater than 10%	Traffic and transport	Table 27-16 of Chapter 27 Traffic and Transport (Volume I) (document reference 3.1.29) of the ES identifies that Link 5 would experience a change in traffic flows below EATM screening thresholds. In accordance with EATM the link is therefore screened out of the assessment.	Y
	assessed as having high sensitivity and reports a 12% increase in all vehicles' peak movements.			
	that are showing greater than 10% increase in total traffic flows (or HGV component) should be screened in, yet Table 27.17 does			
	not include this link for further assessment. Recommendation The screening for Link 5 should be reviewed and further assessment completed in accordance with GEART			

NFOWFS3_032_005_140 723	Accident clusters	Traffic and	Noted.	N
123	Table 27.23 identifies an existing pattern of collisions at the	transport		
	A133/B1027 St John's			
	Roundabout (cluster site 1)			
	involving collisions between			
	pedestrians/cycles and vehicles. It			
	is assessed that the change in			
	HGV traffic associated with the			
	construction of North Falls could			
	result in a potentially significant			
	highway safety effect at this			
	roundabout. It is therefore			
	proposed that a series of			
	additional mitigation measures will			
	be outlined within a future OCTMP (as part of the DCO application)			
	and secured by a DCO			
	Requirement. The measures are			
	outlined in Table 27.25.			
	The potential mitigation measures			
	do not appear to consider HGV			
	design in relation to cyclist and			
	pedestrian visibility. Transport for			
	London have successfully			
	improved road safety involving HGVs and cyclists / pedestrians			
	and are currently consulting on			
	further improvements to vehicle			
	design. HGVs over 12 tonnes will			
	be required to have a minimum			
	three-star DVS rating or fit a			
	system of updated safety features			
	- the Progressive Safe System			
	(PSS).			
	4 Recommendation			
	This potential additional mitigation			
	of a DVS rating or PSS should be			
	considered and discussed with the			
	traffic and transport Expert Topic			
	Group (ETG). This potential			
	mitigation should be reported			
	within the ES with suitable			
	justification for any decisions to			
	include or exclude from mitigation			
	measures.			

NFOWFS3_032_006_140 723		N/A	Noted.	N
	If you require any clarification on the above points or wish to discuss any particular issues, please do not hesitate to contact us. Yours faithfully On behalf of UK Health Security Agency nsipconsultations@ukhsa.gov.uk Please mark any correspondence for the attention of National Infrastructure Planning Administr			
NFOWFS3_033_001	North Falls FREEPOST 14th July 2023 Dear Project Team, Reference: North Falls Statutory Consultation Thank you for consulting the Woodland Trust on the second stage of consultation for the proposed scheme. We remain concerned regarding potential detrimental impact to Simon's Wood LoWS (grid reference: TM1601624022) and Holland Mill Wood WT site (grid reference: TM200195) due to their proximity to the scheme boundary. Further information is outlined below.	Onshore Ecology	Noted.	N

NEOWEDS SOS SOS	A control (NA) control	O a la con Faul de	Notes	N.I.
NFOWFS3_033_002	Ancient Woodland	Onshore Ecology	Noted.	N
	Natural England and the Forestry			
	Commission, the Government's			
	respective bodies for the natural			
	environment and protecting,			
	expanding and promoting the			
	sustainable management of			
	woodlands, define ancient			
	woodland as follows within their			
	standing advice1:			
	"Ancient woodland takes hundreds			
	of years to establish and is defined			
	as an irreplaceable habitat. It is a			
	valuable natural asset important			
	for: wildlife (which include rare and			
	threatened species); soils; carbon			
	capture and storage; contributing			
	to the seed bank and genetic			
	diversity; recreation, health and			
	wellbeing; cultural, historical and			
	landscape value. It has been			
	wooded continuously since at least			
	1600AD. It includes:			
	Ancient semi-natural woodland			
	[ASNW] mainly made up of trees			
	and shrubs native to the site,			
	usually arising from natural			
	regeneration.			
	Plantations on ancient woodland			
	sites – [PAWS] replanted with			
	conifer or broadleaved trees that			
	retain ancient woodland features,			
	such as undisturbed soil, ground			
	flora and fungi"			
	Both ASNW and PAWS woodland			
	are given equal protection in			
	government's National Planning			
	Policy Framework (NPPF)			
	regardless of the woodland's			
	perceived condition, its size, or			
	features it contains.			

NFOWFS3_033_003	Veteran Trees Natural England's standing advice on veteran trees states that they "can be individual trees or groups of trees within wood pastures, historic parkland, hedgerows, orchards, parks or other areas. They are often found outside ancient woodlands. They are also irreplaceable habitats. A veteran tree may not be very old, but it has significant decay features, such as branch death and hollowing. These features contribute to its exceptional biodiversity, cultural and heritage value." 1 hiips://www.gov.uk/guidance/ancie nt-woodland-ancient-trees-and- veteran-trees-advice-for-making- planning-decisions	Onshore Ecology	Noted.	N
NFOWFS3_033_004	Planning Policy Paragraph 5.3.14 of the Overarching National Policy Statement for Energy (EN-1) states: "Ancient woodland is a valuable biodiversity resource both for its diversity of species and for its longevity as woodland. Once lost it cannot be recreated. The IPC should not grant development consent for any development that would result in its loss or deterioration unless the benefits (including need) of the development, in that location outweigh the loss of the woodland habitat. Aged or 'veteran' trees found outside ancient woodland are also particularly valuable for biodiversity and their loss should be avoided. Where such trees would be affected by development proposals the applicant should set out proposals for their conservation or, where their loss is unavoidable, the reasons why." The National Planning Policy	Policy and Legislative Context	Noted.	N

	Framework, paragraph 180, states: "When determining planning applications, local planning authorities should apply the following principles: c) development resulting in the loss or deterioration of irreplaceable habitats (such as ancient woodland and ancient or veteran trees) should be refused, unless there are wholly exceptional reasons63 and a suitable compensation strategy exists;"				
NFOWFS3_033_005	Impacts to Ancient Woodland/Woodland Trust Sites The proposed corridor boundary is sited adjacent to our Holland Mill Wood site, plus an area of ancient woodland known as Simon's Wood LoWS. As previously outlined, we are specifically concerned about the following impacts to the ancient woodland/Woodland Trust Site: • Permanent fragmentation due to the removal of adjacent semi- natural habitats, such as small wooded areas, hedgerows, individual trees and wetland habitats if continued access to the cable once constructed is required.	Onshore Ecology		The outlined impacts are addressed in Sections 23.6.1.2 and 23.6.1.5 of Chapter 23 (Onshore Ecology). Related mitigation is outlined in the OLEMS (document reference 7.14). The impact of construction traffic movements on other ecological receptors within 200m of construction traffic routes is considered in Section 20.6.1.3.2 of Chapter 20 (Onshore Air Quality). Where the in-combination values are above 1% of the Critical Load or Level, an ecologist determined whether any significant effects may be experienced at the affected habitats. The determination of the significance of effects associated with nutrient nitrogen/acid deposition and airborne NOx concentrations is detailed in Chapter 23 Onshore Ecology (Volume I) (document reference 3.1.25) and Chapter 24 Onshore Ornithology (Volume I)	N
NFOWFS3_033_006	Noise and dust pollution impact to woodlands within close proximity of the cable installation area.	Noise and Vibration	Onshore Ecology	(document reference 3.1.26).	
NFOWFS3_033_007	Root damage to woodland boundary trees during installation of the cable. • The potential for trampling of sensitive ancient woodland flora and soils if access is required within any ancient woodland. Natural England and Forestry Commission have identified	Onshore Ecology		Noted. Impacts relating to ancient woodland are addressed in Sections 23.6.1.2 and 23.6.1.5 of Chapter 23 (Onshore Ecology) No significant effects are predicted to occur on ancient woodlands.	N

	impacts of development on ancient woodland within their standing advice (please see the annex at the foot of this document for the full range of impacts outlined). This guidance should be considered Government's position with regards to development impacting ancient woodland, although Natural England and Forestry Commission should still be consulted for specific comment on this proposal.			
NFOWFS3_033_008	Furthermore, we hold concerns with regards to potential nitrogen deposition to several ancient woodlands within the surrounding area. The Trust is of the opinion that all developments should ensure that the process contribution of ammonia/nitrogen does not exceed 1% of the critical level and load. We would therefore recommend that the cable's location should be designed using detailed ammonia modelling to achieve insignificant process contributions on the surrounding ancient woodlands.	Onshore Ecology	The onshore cable route has been designed incorporating environmental considerations including sites designated for nature conservation. Air quality impacts upon ancient woodlands assessed in Section 23.6. With regards to the comment below, Holland Hall Wood is located over 200 m from the onshore cable route and roads used by project traffic and therefore has been scoped out of the assessment. Simon's Wood has been included in Sections 23.6.1.2 and 23.6.1.5. No significant effects are predicted to occur on ancient woodlands. Chapter 20 Onshore Air Quality (Volume I) (document reference 3.1.22) provides further detail.	Y
NFOWFS3_033_009	Mitigation for ancient woodland Buffering ancient woodland can be an ideal mitigation measure as buffer zones can be used to establish distance between the development and habitat, which helps to alleviate harmful impacts, while also creating new areas of habitat around the woodland. This development should allow for a buffer zone of at least 30 metres to prevent adverse impacts such as pollution and disturbance and ensure avoidance of root damage. Although not ancient, we would also request that a 30-metre buffer is afforded to Holland Mill Wood to ensure detrimental impacts to our site are avoided.	Onshore Ecology	It is not possible for the Project to cross Little Clacton Road without being within 30m of Holland Mill Wood (part of the Great Holland Pits site). The boundary is approximately 10m from the Holland Mill Wood at its closest point. This was raised in the October 2023 ETG, where EWT confirmed they are satisfied with the proposals. No significant effects are predicted to occur on ancient woodlands. This is addressed in Sections 23.6.1.2 and 23.6.1.5 of Chapter 23 (Onshore Ecology).	N

	Additional mitigation approaches are also outlined in our Planners' Manual2; these measures would help ensure that the development meets policy requirement and guidance and include: - Retaining and enhancing natural habitats around ancient woodland to improve connectivity with the surrounding landscape.				
NFOWFS3_033_010	Measures to control noise, dust and other forms of water and airborne pollution. - Implementation of an appropriate monitoring plan to ensure that proposed measures are effective over the long term and accompanied by contingencies should any conservation objectives not be met.	Noise and Vibration	Onshore Air Quality		
NFOWFS3_033_011	Veteran trees Paragraph 265 (23.6.1.5) of the Preliminary Environmental Information Report (PEIR) outlines that 11 veteran trees are located within the project boundary. It is essential that no veteran trees are lost as part of the proposals. The loss of any such trees can have a significant impact on local wildlife, particularly those which depend on the habitat provided by veteran trees.	Onshore Ecology		No veteran trees are to be lost as part of the Project's development. This is addressed in Section 23.6.1.5 of Chapter 23 (Onshore Ecology). No significant effects are predicted to occur on veteran trees.	Y
NFOWFS3_033_012	Trees are susceptible to change caused by construction/development activity. As outlined in 'BS5837:2012 - Trees in relation to design, demolition and construction' (the British Standard for ensuring development works in harmony with trees), construction work often exerts pressures on existing trees, as do changes in their immediate	Onshore Ecology		Noted. This is addressed in Section 23.6.1.5 of Chapter 23 (Onshore Ecology)and in the OLEMS (document reference 7.14).	N

	environment following construction of any new infrastructure. Root systems, stems and canopies, all need allowance for future movement and growth, and should be taken into account in all proposed works on the scheme through the incorporation of the measures outlined in the British Standard.			
NFOWFS3_033_013	While BS5837 guidelines state that trees should have a root protection area (RPA) of 12 times the stem diameter (capped at 15m), this guidance does recognise that veteran trees need particular care to ensure adequate space is allowed for their long-term retention. It is imperative that Natural England and Forestry Commission's standing advice on root protection areas for veteran trees is taken into account as the proposals progress. This advice states: "For ancient or veteran trees (including those on the woodland boundary), the buffer zone should be at least 15 times larger than the diameter of the tree. The buffer zone should be 5 metres from the edge of the tree's canopy if that area is larger than 15 times the tree's diameter. This will create a minimum root protection area. Where assessment shows other impacts are likely to extend beyond this distance, the proposal is likely to need a larger buffer zone."	Onshore Ecology	All veteran trees are more than 15m from the onshore project area. Impacts relating to woodlands and veteran trees are addressed in Section 23.6.1.5 of Chapter 23 (Onshore Ecology). No significant effects are predicted to occur on woodland habitats.	Y

NFOWFS3_033_014	Conclusion Ancient woodland is an irreplaceable habitat, once lost it is gone forever. Any development resulting in loss or deterioration of ancient woods and trees must consider all possible measures to ensure avoidance of adverse impact. We hope our comments are of use to you. Should you wish to discuss our response further, please do not hesitate to contact us. 2 Yours faithfully, Nicole Moses Campaigner – Woods Under Threat Woods Under Threat team	Onshore Ecology	Noted.	N
NFOWFS3_034_001_140 723	Thank you for consulting the PLA on the proposed North Falls Offshore Wind Farm and the Preliminary Environmental Information report (PEIR) which has been produced. The PLA is the statutory harbour authority for the tidal River Thames between Teddington and the outer Thames Estuary. Governed by the Port of London Act 1968 its statutory functions include responsibility for conservancy, hydrographic surveying, dredging, managing the public navigation and controlling vessel movements. The proposed wind farm lies outside the PLA's statutory limits under the 1968 Act. However, the PLA's functions include the promotion of the use of the River for freight and passengers as an important and sustainable transport corridor. The Port of	Introduction	Noted.	N

			•		
	London is the country's biggest port – 55m tonnes of goods were handled in the Port in 2022 - and its contribution to international trade is critical. Over 48,000 jobs depend on the Port, which generates more than £4.5 billion in economic value added annually, and there is significant ongoing investment taking place within the Port. It is therefore imperative that the existing and future capacity and operation of the Port of London are not compromised during construction and operation of the wind farm.				
NFOWFS3_034_002_140 723	The PEIR is written on the basis that subsequent assessment in the Environmental Statement will achieve a tolerable outcome and relies on being able to agree mitigation with the MCA. This seems premature - how can the risk be determined before the assessment is carried out?	EIA Methodology		Mitigation for Shipping and Navigation has been developed in consultation with the MCA and other stakeholders (discussed in ES Chapter 15 Shipping and Navigation (Document Reference: 3.1.17)), and was informed by feedback on the PEIR.	N
NFOWFS3_034_003_140 723	The NRA manages to gloss over the idea that the Port of London could be affected by the proposed development by avoiding mention of the port. It notes there are three deep water routes leading from the Sunk Pilot station (4.2 Routeing Measures) but there is no comment on the importance of Black Deep and King's Channel as being the deep water access routes for the port. It seems that as the port is outside of either the 10nm or 2nm assessment areas its significance has not been considered. In 4.9 Port, Harbour and Related Facilities, the port is not mentioned and in the assessment of Main Commercial Routes (7.2) the assessment	Shipping and Navigation		These DW routes are outside of the study area, however detailed draught analysis of associated vessels has been undertaken in Appendix 15.1 Navigational Risk Assessment (Volume III) (document reference 3.3.16).	N

	relates to those within the 10nm of the array areas, so despite the data captured on the chart showing the 90th percentile traffic approaching Black Deep, it is not listed as a main commercial route.			
NFOWFS3_034_004_140 723	In responding to the MGN 654 checklist, under 'Assessment of the cumulative and individual effects' point vi. asks 'Whether the nearby area contains prescribed routeing schemes or precautionary areas' – only IMO routeing schemes have then been considered in proximity to the array and local traffic routes to the Port of London or Harwich have not been considered. In Table A.2, the Annex 1 checklist specifically mentions 'Analysis of the marine traffic, including base case and future traffic densities and types' but the response only considers current traffic and make no mention of assessing future traffic concerns.	Shipping and Navigation	Future case vessel traffic is assessed in Appendix 15.1 Navigational Risk Assessment (Volume III) (document reference 3.3.16) Detailed analysis of the Sunk and Trinity DW is also provided in this appendix.	N
NFOWFS3_034_005_140 723	In the section on vessel draughts (6.1.3.2) it is noted that the maximum draught vessel recorded during the survey was 20.7m but this was using the North Hinder TSS and as Figure 6.19 sets the upper limit of analysis as a category of vessels with a draught over 9m, those using the Port of London's deep water routes which are over 9m but less than 20.7m are not captured and do not highlight current maximum draughts of vessels in the area in order for the report to consider how these draughts may increase over time.	Shipping and Navigation	Vessel draught analysis is included within the Appendix 15.1 Navigational Risk Assessment (Volume III) (document reference 3.3.16) including a focus on greater vessel draughts within the offshore cable corridor and DW routes. This includes consideration of the potential for increasing draughts.	N

NFOWFS3_034_006_140 723	In response to Harwich's concerns, the cable route has been moved south and now in direct conflict with the Sunk Deep Water Route (DWR). Dredged Areas had automatically been discounted from the selection process, but "dredged area" appears to have been defined by the cartographic depiction on a navigation chart rather than review of the legal powers parties may already hold for dredging. The London Gateway HEO (which is not referenced), has powers for dredging to 16.5m + 1m tolerance along the Sunk DWR. It would appear the cable corridor crosses the Sunk DWR in approx. 18m of water. If the cable were laid with a 5% reduction in water depth as a result of cable lay there would be 17.1m of water which is in the zone for which London Gateway already have powers to dredge. There is also no consideration of future deepening of the channel and the disbenefits that the presence of a cable crossing would bring.	Offshore Archaeology and Cultural Heritage	This has been considered and assessed in Section 15.6 of Chapter 15 Shipping and Navigation. The Project is committing to not reducing depths over the Sunk or Trinity DW routes.	Y
NFOWFS3_034_007_140 723	Where cable interaction is considered with vessels in the Shipping and Navigation chapter, paragraph 177 misses the point entirely and talks about an 'increase in underkeel interaction'. The dredge requirements have not been considered and the focus is instead on the keel of the vessel getting too close to the cable itself. Whilst underkeel clearance is important, the cable cannot limit the future of the UK's largest port by being laid at a depth that is insufficient to allow a dredge to occur at a later date. Paragraph 180 considers the risk in not laying the cable at depth but again this only refers to interaction with	Offshore Archaeology and Cultural Heritage	Impacts on port access, including in terms of future case trends has been assessed in ES Chapter 15 Shipping and Navigation (Document Reference: 3.1.17). Cable crossings and the associated cable protection are also considered in the assessment. MGN 654 requires that any reduction in water depth of greater than 5% must be discussed with the MCA to agree appropriate mitigation.	N

	vessels and not the risk to the				
	Port. There is also no consideration of interaction with other cables or consideration of contingencies for areas where cable cannot be buried due to surface nature. Neuconnect is mentioned in table 15.11 on cumulative effects, but there is no consideration of crossing points and effect on burial depths.				
NFOWFS3_034_008_140 723	The PLA, in line with other projects in the Estuary and as set out during the consultation process, highlighted the importance of future proofing and emphasised the PLA's requirement of a safeguarding of 20m of water plus any burial depth required for cable protection.	Offshore Archaeology and Cultural Heritage		Impacts on port access including in terms of future case trends are assessed in Section 15.6 of Chapter 15 Shipping and Navigation. Equivalent assessment on a cumulative basis is provided in Section 15.7 of Chapter 15.	N
NFOWFS3_034_009_140 723	Opportunities to have a combined cable corridor with Five Estuaries have not been considered and in combination effects with Five Estuaries with regard to current and future port access need to be assessed in the ES. It is also noted that the scheme has a lifespan of approx. 30 years and upon decommissioning, cables would be abandoned and any scour protection (with its resultant impact on water depths) is likely to be left in situ.	Offshore Archaeology and Cultural Heritage	Site Selection and Assessment of Alternatives	See Chapter 4 Site Selection and Assessment of Alternatives (Volume I) (document reference 3.1.6) of the ES. Cumulative impacts are assessed in 15.7. Further, the Outline NIP (document reference 7.24) provides commitments around concurrent activities between North Falls and Five Estuaries. The Applicant will comply with its decommissioning obligations under Chapter 3 (Decommissioning of Offshore Installations) of the Energy Act 2004 which require the Applicant to prepare a decommissioning programme following notice from the Secretary of State.	Y
NFOWFS3_034_010_140 723	The Shipping and Navigation Chapter of the PEIR makes no reference in the "reduced port access" worst case scenarios to burial depths not being achieved during construction or to the potential for reduced port access due to the burial depths that are proposed.	Shipping and Navigation		Impact on vessels transiting to/from local ports in the area, including use of approach channels, port operations and pilotage is assessed in Section 15.6.2.6 of Chapter 15 Shipping and Navigation.	N

NFOWFS3_034_011_140 723	Notably under the impact 'interaction with subsea cables' there is reference to an offshore export cable target burial depth of only 0.5m and a minimum of 0m. Rock berm protection has an indicative height of 1.4m. The PEIR appears to rely on the cable burial risk assessment to determine depths for the cable, but this hasn't been completed yet and there is lots of resultant uncertainty for the PLA as to what is proposed and where. Discussion of risks relating to anchor strike of the cable are dismissive. The scale of navigation chart used in the figures for the Navigation and Shipping chapter is worse than that used in commercial fisheries chapter, the latter actually showing the location of the charted deep water routes referenced in the assessment text.	Offshore Archaeology and Cultural Heritage	Charted DW routes have been assessed in detail within Appendix 15.1 Navigational Risk Assessment (Volume III) (document reference 3.3.16).	N
NFOWFS3_034_012_140 723	With regard to construction further consideration needs to be given to the disruption to services around the Sunk Pilot station – the PLA previously raised that any construction and eventually maintenance needs to be done in close cooperation with the PLA and Harwich in order to minimise the disruption over a 3 year period.	Shipping and Navigation	Collision risk and disruption from project vessels during construction is considered in Sections 15.6.1.4 and 15.6.1.6 and in sections 15.6.2.4 and 15.6.2.6 of Chapter 15 Shipping and Navigation. This includes consideration of the Outline NIP (document reference 7.24) which North Falls have developed in liaison with local ports including PLA to manage impacts on pilotage. Embedded mitigation measures detailed in Section 15.3.4 of Chapter 15 including the marine coordination of Project vessels.	N
NFOWFS3_034_013_140 723	It is also suggested that communication and consultation needs to occur with London Gateway and other terminal operators using the deep water routes so that scheduling can be carefully managed throughout this time. Given the seriousness of the issues raised in this response the PLA would welcome the opportunity of a meeting to go	Technical Consultation	Noted.	N

	through the points in detail.			
	Regards			
	Lucy			
NFOWFS3_035_001	Dear Sir or Madam,	N/A	Noted.	N
	The Netherlands acknowledges the receipt of the Espoo notification and information regarding the proposed North Falls Offshore Wind Farm (reference: 004788663-01). The Netherlands does not have objections concerning the developments. However, we wish to point out that a number of crucial aspects deserve more attention. We would ask to inform us on if/ how our concerns, and the identified omissions in the assessment will be addressed and if deemed necessary, what			
	additional mitigating measures will be proposed.			
NFOWFS3_035_002	The Netherlands would like to stress the importance of including: 1) up-to-date information of policy and spatial plans of other North Sea countries. The current report does not consider the Natura2000 area "Bruine Bank" in the Dutch EEZ (which lies near the North Sea Falls area) nor the more recent windfarm plans (Dutch offshore wind farm developments until 2030). Therefore the current assessment of the environmental effects is deemed insufficient. Information on Dutch offshore wind development can be found here (the information will be further updated during this summer):	Infrastructure and Other Users	Bruine Bank Special Protection Area and other transboundary Natura 2000 sites are considered in Appendix 1.1 to the Report to Inform Appropriate Assessment (Appendix 1.1 Habitats Regulations Assessment Screening (Document Reference 7.1.1.1)).	N

NFOWFS3_035_003	2) an assessment of cumulative effects as part of the Environmental Impact Assessment. We refer here to cumulative impacts on several of the considered species of the windfarms from different North Sea countries. These should be considered to get a comprehensive picture of the transboundary effects in cumulation on: - (migratory) birds, especially considering effects on the Natura2000 areas relevant for migratory species	Offshore Ornithology	Noted.	N
NFOWFS3_035_004	mobile species such as the harbour porpoise (regarding underwater noise) It is unclear how cumulative effects are assessed. The assessment indicates that habitat loss and collisions are included in the assessment, but also due to not all Dutch Offshore Wind Developments (planned windfarms) being included, the cumulative assessment is in our view insufficient. There is no cumulating of effects on an international level for birds, and certainly for Common guillemot and Northern garnets this would be of utmost importance.	Marine Mammals	ES Appendix 12.6 Marine Mammal Cumulative Effect Assessment Screening (Document Reference: 3.3.11) considers relevant international developments, including Dutch offshore wind farms.	N
NFOWFS3_035_005	3) mitigation measures: including considering options on limiting underwater noise for marine mammals. The Netherlands (and Germany and Belgium) include this kind of information in EIAs including establishing a standard for underwater noise (impacts).	Marine Mammals	All potential mitigation measures are being considered such as noise reduction measures, and timing of piling, see Section 12.78 of Chapter 12 Marine Mammals (Volume I) (document reference 3.1.14) and the Outline MMMP (document reference 7.7).	Y

NFOWFS3_035_006	4) (broader) ecosystem effects (e.g. stratification) in the assessment (those are missing now). In the current report it is not clear on the basis of which information the conclusion was drawn that there are no transboundary ecosystem effects to be expected.	Onshore Ecology	Given that the likely impacts of the Project will be localised and small scale, and the prevailing physical processes are in a northeast to southwest direction, the zone of influence (shown in Figure 10.2, document reference 3.2.6) has no pathway for transboundary impacts on benthic and intertidal ecology. Transboundary effects have therefore been scoped out of further assessment in accordance with the Scoping Opinion (Planning Inspectorate, 2021). The fish and shellfish impact assessment takes account of the distribution of fish stocks and populations irrespective of national jurisdictions. Therefore, the Applicant considers that a specific assessment of transboundary effects in relation to fish and shellfish ecology is unnecessary. The suitability of this approach has been confirmed by the MMO and PINS in their Scoping Opinion. Further information and clarification for the conclusions reached for transboundary effects have been added, see Section 12.10 Chapter 12, Marine Mammals.	N
NFOWFS3_035_007	5) effects on marine mammals, for instance related to underwater noise. More information over which species were included and on which information is available for (a part of) the species.	Marine Mammals	Text has been reviewed, further information for the inclusion of marine mammal species in assessments have been detailed in Appendix 12.2 Marine Mammal Baseline Information (document reference 3.3.7).	N
NFOWFS3_035_008	6) effects on bats. Bats are only mentioned in relation to effects on ecology on land (linked to the planned infrastructure on land). The effects of offshore wind farms on migrating bats are not included in the assessment.	Onshore Ecology	Migratory bats are considered in Chapter 23 of the ES (Onshore Ecology), as described in Section 23.5.4.2.3.	N

NFOWFS3_035_009	a. The Northern fulmar and the Sandwich tern are not considered concerning habitat loss, please do consider these as they are sensitive species. b. The Razorbill and the Sandwich tern are included, but they need some extra attention concerning cumulative impacts and the effects of international offshore windfarm developments. With the reasoning applied it is concluded that the ecological effects are lower. However we do not agree with the reasoning. The effects should be assessed in a quantitative manner. c. For the Razorbill (Alca torda) birds there are quite high mortality rates. This is problematic. The same applies to the Northern gannet. How will this be taken into consideration in the developments? Will specific measures be taken or will the plans be altered in any way? Will this be assessed further?	Offshore Ornithology	Northern fulmar and Sandwich tern were considered in relation to habitat loss resulting from displacement from North Falls but neither species was scoped in for assessment. Fulmar is considered to have low susceptibility to disturbance, although it may show some avoidance of OWFs. However, the species ranges over extensive areas (during the breeding season a mean maximum foraging range plus one standard deviation of 1,200.2 km; Woodward et al. 2019) and it is not considered that displacement from OWFs would materially affect the foraging area available to the species or its ability to meet energy from foraging requirements throughout the year. Sandwich terns were recorded in very low numbers in the baseline surveys for North Falls. The array area for North falls is not considered of any importance to this species, and therefore there would be no effect in relation to habitat loss. As stated, information on the reference populations of seabirds at the spatial scale that would be required for a quantitative transboundary assessment s is not currently available, and therefore it is possible only to undertake a qualitative assessment. As stated in the North Falls PEIR, based on expert judgement, because of the increased reference populations that would result from the expansion of the area of search, it is anticipated that the inclusion of non-UK OWFs is highly likely to reduce the cumulative effect assessed for each species (as presented in Section 13.7.3 of Chapter 13, Offshore Ornithology, PEIR). After the publication of the PEIR, the boundary of the North Falls array has been revised so that it now covers a smaller area, which will reduce the predicted effects of collision and displacement on all species scoped in for assessment. The Habitats Regulation Assessment for the revised boundary, which will be produced to accompany the DCO application for consent, will include population models for razorbill, gannet and other species screened in, as a context for assessing the predicted impacts of North Falls alon	N

NFOWFS3_035_010	8) effects on commercial fisheries. There is an impact on the Dutch commercial fisheries as chapter 14 of the offshore PEIR describes. The area consists of important fishing grounds for various demersal and pelagic fisheries that use beam trawls and seine netting (demersal) and midwater otter trawls (pelagic). Chapter 14 already analyses the expected short- and long-term impact for different fisheries on the access to the fishing grounds.	Commercial Fisheries	The economic effects resulting from disruption to fishing have been assessed in Chapter 31 Socioeconomics (Volume I) (document reference 3.1.33) of the ES. Consideration has been given to the Dutch fishing fleet for construction (Section 14.6.1.1.3 of Chapter 14 Commerical Fisheries) and operation (Section 14.6.2.1.3 of Chapter 14).	N
NFOWFS3_035_011	The Netherlands would like to request that the analysis also looks at the economic value of the fisheries and accounts for possible economic losses that may occur due to lack of or lesser access to important fishing grounds.	Commercial Fisheries	The economic effects resulting from disruption to fishing have been assessed in Chapter 31 Socioeconomics (Volume I) (document reference 3.1.33) of the ES. Consideration has been given to the Dutch fishing fleet for construction (Section 14.6.1.1.3 of ES Chapter 14 Commercial Fisheries), and operation (Section 14.6.2.1.3 of Chapter 14).	N
NFOWFS3_035_012	It is important to note that whilst the Dutch do not have historic rights in the given area, the Netherlands does have a share in the quota in these waters, for instance mackerel (MAC/2A34) and horse mackerel (JAX/4BC7D and JAX/2A-14). The construction of North Falls poses the risk that fisheries may fail to take advantage of fishing their share of quota due to the construction in these specific areas. Therefore the Netherlands would like to know what the government or wind farm operators can do to further mitigate potential losses and facilitate commercial fisheries in the area.	Commercial Fisheries	Consideration has been given to the Dutch fishing fleet for construction (Section 14.6.1.1.3 of ES Chapter 14 Commercial Fisheries), and operation (Section 14.6.2.1.3 of Chapter 14). The cumulative effects on commercial fishing arising from the Project in conjunction with other projects in the area are assessed in Section 14.7.3 of Chapter 14.	N

NFOWFS3_035_013	9) aspects concerning safety of navigation: Transboundary effects on shipping are not expected. However, multiple conflicts with local ships' routeing measures require attention. International coordination is recommended and the Netherlands likes to be involved. The following conflicts are identified: a. The distances between the traffic separation schemes and the planned wind farms may not comply with paragraph 3.14 of the general provisions on ship routeing. To ensure safe distances, it is recommended to adopt the NCSR 7-INF.15 report from the World Association for Waterborne Transport Infrastructure (PIANC). b. The impact of the irregular shapes on ships' situational awareness. c. The overlap between the southern wind farm and the precautionary area. d. The positioning of the western border of the northern wind farm that is located within the boundaries of the adjacent traffic separation scheme. e. The galloper recommended route (ferries) located within the southern wind farm area. We would appreciate if you could inform us to which degree the aspects we mention above concerning gaps in the assessment can still be filled. With kinds regards, Mareike Erfeling	Shipping and Navigation	The array area has been refined in response to the PEIR feedback. The northern array has been removed and the southern array area reduced in size. Further details on the consultation with shipping stakeholders and responses to stakeholder comments are provided in Chapter 15 Shipping and Navigation (Volume I) (document reference 3.1.17) of the ES.	Y
	Maroino Erioling			

NFOWFS3_036_001_140 723 To whom it may concern, This letter is in response to the consultation on the North Falls Preliminary Environmental Information Report (PEIR). The National Federation of Fishermen's Organisation (NFFO) represents the interests of over 500 commercial fishing businesses in England and Wales. We are responding to this consultation as we feel that there are potential impacts to the commercial fisheries and the species that they rely upon. Commercial fisheries as a result of displacement from fish grounds has been considered for construction (Section 14.6.1.2), operation (Section 14.6.2.) decommissioning (Section 14.6.3) and cumul effects (Section 14.7.3). The likely significant effects on commercial fisheries as a result of displacement from fish grounds has been considered for construction (Section 14.6.1.2), operation (Section 14.6.3.) and cumul effects (Section 14.7.3). The likely significant effects on commercial fisheries as a result of displacement from fish grounds has been considered for construction (Section 14.6.1.2), operation (Section 14.6.3.) and cumul effects (Section 14.7.3). The likely significant effects on commercial fisheries as a result of displacement from fish grounds has been considered for construction (Section 14.6.2.) decommissioning (Section 14.6.3.) and cumul effects (Section 14.7.3). The likely significant effects on commercial fisheries as a result of displacement from fish grounds has been considered for construction (Section 14.6.2.) decommissioning (Section 14.6.2.) and cumul effects on commercial fisheries as a result of displacement from fish grounds has been considered for construction (Section 14.6.2.) and cumul effects on commercial fisheries as a result of displacement from fish grounds has been considered for construction (Section 14.6.2.) and cumul effects of the Project on and shellfish receptors is addressed in Chapt Fish and Shelfish receptors is addressed in Chapt Fish and Shelfish receptors is addressed in Chapt Fish and Shelfish receptors i	n 2), lative fish ter 11
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generations, both UK and EU	
fleets, and are already faced with	
extensive spatial restrictions such	
as existing offshore wind	
developments, aggregate	
extraction areas and dredge spoil	
grounds, Marine Protected Areas,	
and legislative restrictions in the	
region. Further displacement of	
commercial fishing in the region	
will result in economic harm,	
through loss of earnings from the	
ground and additional operating	
costs due to increased steaming	
times during construction and	
operation of the project, this is	
compounded by the cumulative scale of spatial restrictions in the	
Inner and Outer Thames region.	
The response below has been	
separated to specific concerns we	
have with regards to the Fish and	
Shellfish Ecology chapter and the	
Commercial fisheries chapter.	

NEOWEON CON 110	Fish and OhallGab Factor	Fish and Object	A description of the leaves of the leaves	NI NI
NFOWFS3_036_002_140	Fish and Shellfish Ecology	Fish and Shellfish	A description of the key sources of data and	N
723	The following comments are in	Ecology	information used, including their limitations, are	
	reference to the Fish and Shellfish		provided in Appendix 11.1 Fish and Shellfish	
	Ecology chapter of the PEIR,		Ecology Technical Report (Volume III) (document	
	Chapter 11, Volume I and the Fish		reference 3.3.5).	
	and Shellfish Ecology Technical			
	Report, Appendix 11.1, Volume III.		The Applicant notes, that whilst Coull et al. (1998)	
	We are concerned with many of		and Ellis et al. (2012) are dated, both are	
	the data sources used to		conservative in nature as they identify wide	
	characterise the baseline		spawning /nursery areas as well as overall	
	environment within this chapter.		spawning seasons and are currently accepted as	
	The PEIR uses data from studies		the main references to provide an indication of	
	that are temporally and spatially		spawning/nursery area potential for fish around the	
	limited, mostly to areas that are		UK.	
	beyond the boundaries of the			
	The National Federation of			
	Fishermen's Organisations Ltd 30			
	Monkgate, York YO31 7PF			
	Tel: 01904 635430 Email:			
	nffo@nffo.org.uk Web:			
	www.nffo.org.uk			
	development area and makes			
	assessments of impacts from such			
	data. This methodology only			
	provides a 'temporal snapshot' of			
	data specific to the studies cited			
	and their spatial limits – a			
	fundamental flaw in impact			
	assessments.			
	The reliance of offshore wind			
	impact assessments on Coull et			
	al., (1998) and Ellis et al., (2012)			
	has been called into question in			
	nearly all our responses to			
	offshore developments. These			
	data are over a decade old but			
	seem to be used as a 'gold			
	standard' to assess impacts on			
	spawning and nursery grounds.			
	We would expect to see a more			
	precautionary use of these data			
	within the assessments based on			
	their well described limitations.			
	There is minimal site-specific and			
	contemporary data used that can			
	support the assessments made			
	within this chapter and little			
	precautions given to the impacts			
	assessed and conclusions drawn,			

not demonstrating a robust and		
sufficient approach. For example,		
Chapter 14 documented that		
shellfish species such as whelk,		
crab and lobster are important		
commercial fisheries species in the		
region. Minimal data has been		
presented in the PEIR with regards		
to potential impacts to these		
specific receptors, but any		
proposed impacts have been		
assessed as negligible in all cases		
with no mitigation needed (this is		
prevalent for all receptors		
assessed). A paucity of data and		
evidence should be treated with		
caution when assessing impacts to		
the described receptors.		
Data was analysed from		
monitoring projects of other OWF		
developments, however the		
methodology used for these		
monitoring projects (e.g. beam		
trawl) is not the correct		
methodology for sampling		
receptors that the data have been		
used to assess (e.g. shellfish and		
pelagic fish). This incorrect use of		
data, from inappropriate		
methodologies, should be		
accounted for when assessing		
impacts to receptors.		
Acknowledging the limitations of		
the data but subsequently ignoring		
them and treating that data as		
concrete evidence, with no		
caveats, misinforms the		
assessment of the impacts and		
calls into question their validity.		
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We acknowledge the difficulties		
with the lack of site-specific,		
contemporary data, but we would		
expect to see some element of		
precaution taken when assessing		
production taken when according		

im ec by	mpacts to fish and shellfish ecology, specifically when advised by inappropriate methodologies.		

NFOWFS3_036_004_14 723	We feel that the assumption with regards to displacement effects being equal to exclusion effects is inappropriate. Justification for this was given due to the challenging nature of assessing displacement without a framework to do so. This is not acceptable as displacement is one of the major impacts felt by the fishing industry when spatial restrictions are put in place. Displacement effects include but are not limited to: fishing The National Federation of Fishermen's Organisations Ltd 30 Monkgate, York YO31 7PF Tel: 01904 635430 Email: effort squeeze and increased chance of gear conflict, increasing economic loss and safety risks — these impacts through displacement are not the same as through exclusion, displacement specific effects need assessing correctly. These issues are compounded when considering the EU fleets operating in the region that have been demonstrated to have extensive overlap with the development and a high intensity of effort. The impacts on other fisheries, predominantly the UK whelk fleet through displacement of the EU fleet, is likely to significant.	Commercial Fisheries	It is the Applicant's position that the level of displacement would be a function of the extent of temporary loss or restricted access to fishing grounds. Consideration has been given to the effects of displacement in Table 14.3 of Chapter 14 (Commerical Fisheries). The assessment of the likely significance of the effects of the Project on relevant commercial fisheries receptors caused by each identified impact is given in Section 14.6 of Chapter 14.The Project has proposed a wide range of embedded mitigation measures which will reduceminimise impacts on commercial fishing and have been accounted for when identifying effect significance. These are listed in Section 14.3.3 of ES Chapter 14 and in the Outline FLCP (2023).	N
NFOWFS3_036_005_14 723	Extrapolation from non-site- specific examples should be done with caution when demonstrating potential co-existence. Examples of other offshore wind developments where fishing activity has taken place post construction does not justify the assumption that fishing activity can continue in the North Falls site during the operational phase. Environmental factors, array and	Commercial Fisheries	Examples of both mobile and static fishing methods occurring within various project sites has been included in Section 14.6.2.2 of Chapter 14 Commerical Fisheries. The other projects cited in the aforementioned Section have similar dimensions to North Falls with regard to turbine spacing (North Falls – minimum 820m between turbines, Westermost rough – minimum 800m between turbines, Walney extension – minimum 737m between turbines, Beatrice – 1170m between turbines).	N

any receptors beyond a minor impact, resulting in no mitigation or monitoring proposed whether at the site level or cumulative scale. The Inner and Outer Thames Region has undergone, and continues to face, extensive spatial restrictions and there are specific concerns that the region has reached an over-saturated state, and this is having an ever-increasing effect on the regional and wider fishing industry. Further consideration of this needs to be undertaken within the cumulative assessments. For example, scoping out the cumulative snagging hazards through exposed cabling is inappropriate when it is well documented that buried cables can become exposed. This is especially worrying when the minimum target depth of 0.6 m. This, combined with a highly diverse fishing fleet, has the potential to become a safety risk and should be scoped into the assessment. We welcome the commitment The National Federation of Fishermen's Organisations Ltd 130 Monkgate, York YO31 7PF Tel: 01904 835430 Emait. Info@nfo.org.uk Web:	2

	to cable monitoring and reburial, however it is unclear what the mechanisms for this or the protocols for dissemination of snagging hazards when identified will be.			
NFOWFS3_036_007_140 723	The commercial fisheries in the region will be expected to see a vastly changing landscape through the lifespan of the North Falls project. The spatial squeeze on fisheries due to offshore developments in the region is already extensive and the likelihood of further restrictions with regards to the potential ban on all mobile gear within MCZs. There are also factors associated with the renegotiation of the Trade and Cooperation Agreement that will affect opportunities in the region. Whilst these elements are acknowledged in the PEIR as possible factors, they are not accounted for in the assessments.	Commercial Fisheries	The cumulative likely significant effects on commercial fishing arising from the Project in conjunction with other projects in the area are assessed in Section 14.7.3 of Chapter 14 (Commerical Fisheries) based on the information available.	N

	T			
NFOWFS3_036_008_723	attempts to characterise a commercial fisheries baseline by analysing many different data sources to describe and analyse the commercial fisheries impact, including stakeholder expertise. The limitations of the data are well understood and described. However, the assumptions made, and subsequent impacts assessed from these data, do not seem to be influenced by their pedigree or confidence levels used, leading to not a single impact identified. We find this difficult to agree with when considering the proposal is a national energy infrastructure that will directly interact with the current users of the region.	Commercial Fisheries	The data utilised were agreed and accepted by the industry during the scoping phase. The justification for the significance assigned to the impacts on commercial fishing are presented in Section 14.6 of Chpater 14 (Commerical Fisheries). The Project has proposed a wide range of embedded mitigation measures which will reduceminimise impacts on commercial fishing and have been accounted for when identifying impact significance. These are listed in Section 14.3.3 of Chpater 14 and in the Outline FLCP (2023).	N
NFOWFS3_036_009_723		Commercial Fisheries	The data utilised were agreed and accepted by the industry during the scoping phase. The justification for the significance assigned to the impacts on commercial fishing are presented in Section 14.6 of Chapter 14 (Commercial Fisheries).	N

	Mike Roach Deputy Chief Executive Officer National Federation of Fishermen's Organisations			
NFOWFS3_037_001_140 723	Dear Sir/Madam The UK Chamber of Shipping Response to North Falls Offshore Wind Farm Preliminary Environmental Information Report Consultation Introduction The UK Chamber of Shipping (hereafter "the Chamber") welcomes the opportunity to comment on the Preliminary Environmental Information Report (PEIR) consultation for the proposed North Falls Offshore Wind Farm development. The Chamber is the primary trade association for the UK shipping industry and its voice. The Chamber represents more than 200 members, operating in excess of 900 vessels equalling 18 million GT in capacity, trading around the UK and globally. Chamber members operate across the full breadth of the industry, including: containers, dry bulk and tanker trades; passenger transport, comprised of international and domestic cruise & ferry operators, including lifeline services; offshore supply and construction engaged	Introduction	Noted.	N

ir	n oil & gas and renewables;		
to	towage and specialist operations;		
	along with professional service		
	providers supporting the shipping		
	ndustry.		
	The Chamber is a firm advocate		
	for the UK's targets to decarbonise		
	the country and reach net zero by		
	2050, a target the Chamber		
	supports the UK Government in		
	oushing the global shipping		
	ndustry to also adopt. Offshore		
	renewables will become a		
	significant source of green energy		
	and the Chamber supports the		
	Government's targets for offshore		
	wind, whilst championing the vital		
r	role the ports and shipping		
	ndustries play in enabling those		
	targets to be achieved. The		
	shipping industry and supporting		
	ports are essential to facilitate the		
	oroliferation of offshore		
re	renewables throughout the		
li li	ifespan of developments during		
C	construction, operation &		
n	maintenance, and		
d	decommissioning.		
l li	n order to achieve the		
	Government's targets the planning		
	and consultation system must		
	support both the UK's offshore		
	renewable goals and the shipping		
ir	ndustry to ensure that navigational		
	safety is not compromised nor		
	economic contribution from the		
	shipping industry jeopardised. This		
	s a clear policy of the National		
	Policy Statement for Renewable		
	Energy EN-3 and it is apparent		
	from the shipping and navigation		
	related chapters of PEIR as		
	presented, that the project would		
	ntroduce unacceptable		
	mpediment to navigational safety		
	upon a high density complex sea		
	area.		
a	aica.		
	20m 020 7417 2942		
C	com 020 7417 2843		

NFOWFS3_037_002_140 723	Consultation Process The Chamber and some other stakeholders have been informed that as yet unknown changes to the Project Design Envelope (PDE) including Red Line Boundary (RLB) will be made post PEIR. These are necessary and welcome; however it is highly frustrating and should be criticised that the developers have proceeded to progress to PEIR consultation showing a PDE and RLB for the array areas which are out of date and incorrect. Through this course of action, the developers are diminishing one of vital public and formal consultation periods. This reduces the feedback submitted by stakeholders who are aware of the incoming changes and for those who are unaware, their valuable time is being wasted by commenting upon an outdated PDE.	Technical Consultation	Noted.	Z
NFOWFS3_037_003_140 723	Red Line Boundary Changes The Chamber has very strong concerns for the proposed encroachment into IMO Traffic Separation Scheme areas and firmly supports the comments raised by the MCA and Trinity House in their meeting with the developer on 9 June 2022.	Site Selection and Assessment of Alternatives	The array area has been refined in response to the PEIR feedback. The northern array has been removed and the southern array area reduced in size. Further details on the consultation with shipping stakeholders and responses to stakeholder comments are provided in ES Chapter 15 Shipping and Navigation (Volume I) (document reference 3.1.17) of the ES.	Y

NFOWFS3_037_004_140 723	The southwest section of the north array area is unacceptable from a navigation standpoint and need removal because of the impact on northbound vessels exiting the Sunk TSS North traffic lane. The overlap of the south array area with the Sunk Precautionary Area is unacceptable for navigational safety. The south array area abuts directly to the Sunk TSS South which is unacceptable for navigational safety and a greater buffer will be	Site Selection and Assessment of Alternatives	The PDE has been refined using input from consultation including the array area to ensure it is safe from a shipping and navigation perspective including removal of the norther array and reduction of the southern array as detailed in Section 15.3.2. Distances from the structures to the local routeing measures is assessed and considered in Section 15.6.	Y
NFOWFS3_037_005_140 723	required. Transboundary Impacts The proposed south array would block and prevent usage of an international recommended route for ferries between UK and Ostend, Belgium. Whilst the Chamber acknowledges that the route is not in regular current use, some adverse weather routeing, it also is aware that the port of Ostend is looking to establish a green corridor between it and the UK, which may well see the regular reopening of the route. Furthermore, given the recommended status of the route, it would require agreement, at least in principle, with relevant operators, ports and IMO members, in particular the Belgian maritime administration, to remove the ferry route from the routeing measure. The Chamber does not find any meaningful analysis of this route nor consultation with Belgian administration in the PEIR documentation which is again a concern that need addressing post PEIR.	Shipping and Navigation	Assessment of the Galloper recommended ferry route is included within Appendix 15.1 Navigational Risk Assessment (Volume III) (document reference 3.3.16) including adverse weather routeing and the establishment of a green corridor.	N

NFOWFS3_037_006_140 723	Designated Entry Exit Points for Project Vessels The Chamber recommends examination of set entry/exit points into the array areas for project vessels in particular for those entering from the Sunk TSS area as an additional risk mitigation and means to reduce collision risk between project vessels and third party. Whilst all vessels should be abiding by Collision Regulations, such an additional mitigation would provide assistance to commercial shipping in recognising where project vessels may be entering the TSS.	Shipping and Navigation	Embedded mitigation measures detailed in Section 15.3.3 of ES Chapter 15 (Shipping and Navigation), which include entry/exit points for project vessels.	Y
NFOWFS3_037_007_140 723	Cable Corridor The Chamber has along with other stakeholders has safety concerns with the cable route corridor in particular for Under Keel Clearance and cable burial depth. Over the last 20 years, vessel draught has increased considerably and further if more limited increases are expected. As such, the Chamber would not recommend permitting a development which has the potential to restrict future access to the UK's largest and most important container and goods ports.	Offshore Archaeology and Cultural Heritage	An assessment of underkeel clearance has been provided in Section 15.6.2.7 of Chapter 15 (Shipping and Navigation). There will be a cable burial risk assessment process as per Section 15.3.4 of Chapter 15.	N

NFOWFS3_037_008_140 723	In this instance, where the developer has chosen a cable route which crosses IMO traffic routeing measures and designated deep water routes specifically designed for deep draught vessels with restricted manoeuvrability there must be very careful consideration to cable burial depth so as not to impinge on navigational safety, restrict future access to ports and hamper the UK's economic prosperity. The Chamber has strong concern and objection where a target burial depth of 0-1m is stated in Chapter 15 page 21 as this would provide no opportunity for dredging necessary to maintain the future accessibility of key ports. To note, the Chamber has raised these same concerns with Five Estuaries. The Chamber recommends that fuller analysis of vessels with large draught be undertaken. Figures in the NRA which include an upper category of 9m+ draught omits necessary granularity when it comes to UKC with and cable allision risk with deeper draught vessels, especially when a vessel with draught in excess of 20m was recorded in the study area.	Offshore Archaeology and Cultural Heritage	The Applicant will be fully compliant with MGN 654 as per Section 15.3.4 of Chapter 15 (Shipping and Navigation) including the provisions on underkeel clearance. Consultation has been undertaken with HHA, PLA, and London Gateway including via the Sunk User Group in relation to the offshore cable corridor including in relation to underkeel clearance. An assessment of underkeel clearance has been provided in Section 15.6.2.7 of Chapter 15 and the impact on vessels transiting to/from local ports in the area, including use of approach channels, port operations and pilotage is assessed in Section 15.6.2.6 of Chapter 15.	N
NFOWFS3_037_009_140 723	The Chamber therefore suggests that analysis be carried out with additional categorisation for aid granularity, and proposes 9-12m, 12-15m, 15-18m and 18m+ categories.	Offshore Archaeology and Cultural Heritage	Detailed vessel draught analysis is included within Appendix 15.1 Navigational Risk Assessment (Volume III) (document reference 3.3.16), including a focus on greater vessel draughts within the offshore cable corridor and DW routes.	N
NFOWFS3_037_010_140 723	The Chamber acknowledges that the cable burial risk assessment will be examined in detail at the ES stage and welcomes that closer examination. The Chamber wishes this to include careful consideration of interaction with other cables in the area in	Offshore Archaeology and Cultural Heritage	Cumulative assessment is included in Section 15.7 of ES Chapter 15 (Shipping and Navigation) which includes cable developments.	N

	particular Five Estuaries, NeuConnect, and Sea Link, and how cumulatively these may significantly reduce the ability for vessels to undertake emergency anchoring. Limiting the options for the prudent mariner between a drifting allision with a turbine, collision with another vessel or anchor drag with a cable, presents a cumulative increase in navigational risk with significant consequences.			
NFOWFS3_037_011_140 723	Hazard Log The Chamber has not reviewed the Hazard Log in detail given the recognised changes that are to happen to the Red Line Boundaries post PEIR.	N/A	Noted.	N
NFOWFS3_037_012_140 723	Future Traffic Case The Chamber could not locate figures for intended future case Commercial Vessel Activity within Chapter 15, but knows increases of 10% and 20% are typically used. The Chamber also recommends an additional scenario of 30% increase in overall vessel numbers is modelled. It is recognised that London Gateway is only 50% constructed and that there is also further expansion to Felixstowe in terms of port development. Whilst no project vessel trips are included in PEIR documentation, for a comparable wind farm Five Estuaries, it is stated there will be in the region of 1,800 annual round trips due to its presence during the O&M phase. It is reasonable to estimate a similar number for North Falls and East Anglia Two. Accordingly, an additional 3,600 annual round trips of vessels in the wider area singularly due to OWFs is a significant increase. Furthermore, looking at global figures for the size of the	Shipping and Navigation	Consultation with Chamber of Shipping has provided input into future case scenarios for assessment in traffic volumes and scenarios have been detailed within Appendix 15.1 Navigational Risk Assessment (Volume III) (document reference 3.3.16). This includes a 30% traffic growth scenario.	N

	commercial shipping fleet. The world fleet above 100gt has increased from 68,000 vessels in 2005 and 105,500 vessels in 2023, a 55% increase in 18 years. Whilst these are global figures and not specific to the UK EEZ they nevertheless indicate the expansion of the shipping fleet. Hence the expansion of major ports within the area, in combination with the proximity of several other new wind farm projects in the area, for example Five Estuaries and East Anglia Two, leads the Chamber to suggest that 20% may be too low a figure.			
NFOWFS3_037_013_1 723	Decommissioning The Chamber objects to the preferred decommissioning assumption of leaving cabling and other infrastructure in situ as stated in Chapter 15 page 22. Where the OWF is to be fully decommissioned, the Chamber strongly advocates for the full removal of all infrastructure above and below the seabed, acknowledging BATNEEC when it comes to turbine foundations which penetrate deep into the seabed.	Offshore Archaeology and Cultural Heritage	The Applicant will comply with its decommissioning obligations under Chapter 3 (Decommissioning of Offshore Installations) of the Energy Act 2004 which require the Applicant to prepare a decommissioning programme following notice from the Secretary of State.	N
NFOWFS3_037_014_1 723		Offshore Archaeology and Cultural Heritage	Noted.	N

	changed and cables become			
	exposed; therefore particular			
	caution should be taken when			
	operating vessels in areas where			
	submarine cables exist especially			
	where the depth of water means			
	that there is a limited under-keel			
	clearance"			
	Such risk is minimised during the			
	economic life of the wind farm, as			
	navigational traffic through the			
	development will be reduced and it			
	is expected that regular monitoring			
	of the cabling and its protection will			
	be carried out with any necessary			
	remedial works. However once			
	decommissioned, the site will be			
	open to a greater extent to surface			
	navigation and other activity. The			
	Chamber is not aware of			
	commitments by developers post			
	commissioning to regularly monitor			
	and rebury or remove cabling			
	which has become exposed.			
NEOWES3 037 015 140		Offshoro	Noted	N
NFOWFS3_037_015_140	Secondly, it is widely recognised	Offshore	Noted.	N
NFOWFS3_037_015_140 723	Secondly, it is widely recognised that ships' anchors pose a	Archaeology and	Noted.	N
	Secondly, it is widely recognised that ships' anchors pose a significant hazard to submarine		Noted.	N
	Secondly, it is widely recognised that ships' anchors pose a significant hazard to submarine cables as they are designed to	Archaeology and	Noted.	N
	Secondly, it is widely recognised that ships' anchors pose a significant hazard to submarine cables as they are designed to penetrate the seabed. The depth	Archaeology and	Noted.	N
	Secondly, it is widely recognised that ships' anchors pose a significant hazard to submarine cables as they are designed to penetrate the seabed. The depth of penetration will depend on the	Archaeology and	Noted.	N
	Secondly, it is widely recognised that ships' anchors pose a significant hazard to submarine cables as they are designed to penetrate the seabed. The depth of penetration will depend on the size and type of anchor and the	Archaeology and	Noted.	N
	Secondly, it is widely recognised that ships' anchors pose a significant hazard to submarine cables as they are designed to penetrate the seabed. The depth of penetration will depend on the size and type of anchor and the nature of the seabed. Hence, the	Archaeology and	Noted.	N
	Secondly, it is widely recognised that ships' anchors pose a significant hazard to submarine cables as they are designed to penetrate the seabed. The depth of penetration will depend on the size and type of anchor and the nature of the seabed. Hence, the Chamber is concerned that cable	Archaeology and	Noted.	N
	Secondly, it is widely recognised that ships' anchors pose a significant hazard to submarine cables as they are designed to penetrate the seabed. The depth of penetration will depend on the size and type of anchor and the nature of the seabed. Hence, the Chamber is concerned that cable burial at typical depths does not	Archaeology and	Noted.	N
	Secondly, it is widely recognised that ships' anchors pose a significant hazard to submarine cables as they are designed to penetrate the seabed. The depth of penetration will depend on the size and type of anchor and the nature of the seabed. Hence, the Chamber is concerned that cable burial at typical depths does not fully safeguard against anchor	Archaeology and	Noted.	N
	Secondly, it is widely recognised that ships' anchors pose a significant hazard to submarine cables as they are designed to penetrate the seabed. The depth of penetration will depend on the size and type of anchor and the nature of the seabed. Hence, the Chamber is concerned that cable burial at typical depths does not fully safeguard against anchor fouling and entanglement. This	Archaeology and	Noted.	N
	Secondly, it is widely recognised that ships' anchors pose a significant hazard to submarine cables as they are designed to penetrate the seabed. The depth of penetration will depend on the size and type of anchor and the nature of the seabed. Hence, the Chamber is concerned that cable burial at typical depths does not fully safeguard against anchor fouling and entanglement. This was exemplified through the	Archaeology and	Noted.	N
	Secondly, it is widely recognised that ships' anchors pose a significant hazard to submarine cables as they are designed to penetrate the seabed. The depth of penetration will depend on the size and type of anchor and the nature of the seabed. Hence, the Chamber is concerned that cable burial at typical depths does not fully safeguard against anchor fouling and entanglement. This was exemplified through the incident of the Stema Barge II	Archaeology and	Noted.	N
	Secondly, it is widely recognised that ships' anchors pose a significant hazard to submarine cables as they are designed to penetrate the seabed. The depth of penetration will depend on the size and type of anchor and the nature of the seabed. Hence, the Chamber is concerned that cable burial at typical depths does not fully safeguard against anchor fouling and entanglement. This was exemplified through the incident of the Stema Barge II incident in the English Channel	Archaeology and	Noted.	N
	Secondly, it is widely recognised that ships' anchors pose a significant hazard to submarine cables as they are designed to penetrate the seabed. The depth of penetration will depend on the size and type of anchor and the nature of the seabed. Hence, the Chamber is concerned that cable burial at typical depths does not fully safeguard against anchor fouling and entanglement. This was exemplified through the incident of the Stema Barge II incident in the English Channel when emergency anchoring led to	Archaeology and	Noted.	N
	Secondly, it is widely recognised that ships' anchors pose a significant hazard to submarine cables as they are designed to penetrate the seabed. The depth of penetration will depend on the size and type of anchor and the nature of the seabed. Hence, the Chamber is concerned that cable burial at typical depths does not fully safeguard against anchor fouling and entanglement. This was exemplified through the incident of the Stema Barge II incident in the English Channel when emergency anchoring led to the IFA interconnector being	Archaeology and	Noted.	N
	Secondly, it is widely recognised that ships' anchors pose a significant hazard to submarine cables as they are designed to penetrate the seabed. The depth of penetration will depend on the size and type of anchor and the nature of the seabed. Hence, the Chamber is concerned that cable burial at typical depths does not fully safeguard against anchor fouling and entanglement. This was exemplified through the incident of the Stema Barge II incident in the English Channel when emergency anchoring led to the IFA interconnector being fouled and cut though. Passing the	Archaeology and	Noted.	N
	Secondly, it is widely recognised that ships' anchors pose a significant hazard to submarine cables as they are designed to penetrate the seabed. The depth of penetration will depend on the size and type of anchor and the nature of the seabed. Hence, the Chamber is concerned that cable burial at typical depths does not fully safeguard against anchor fouling and entanglement. This was exemplified through the incident of the Stema Barge II incident in the English Channel when emergency anchoring led to the IFA interconnector being fouled and cut though. Passing the cost of potential fouling and	Archaeology and	Noted.	N
	Secondly, it is widely recognised that ships' anchors pose a significant hazard to submarine cables as they are designed to penetrate the seabed. The depth of penetration will depend on the size and type of anchor and the nature of the seabed. Hence, the Chamber is concerned that cable burial at typical depths does not fully safeguard against anchor fouling and entanglement. This was exemplified through the incident of the Stema Barge II incident in the English Channel when emergency anchoring led to the IFA interconnector being fouled and cut though. Passing the cost of potential fouling and disentanglement to the shipping	Archaeology and	Noted.	N
	Secondly, it is widely recognised that ships' anchors pose a significant hazard to submarine cables as they are designed to penetrate the seabed. The depth of penetration will depend on the size and type of anchor and the nature of the seabed. Hence, the Chamber is concerned that cable burial at typical depths does not fully safeguard against anchor fouling and entanglement. This was exemplified through the incident of the Stema Barge II incident in the English Channel when emergency anchoring led to the IFA interconnector being fouled and cut though. Passing the cost of potential fouling and disentanglement to the shipping company, authorities, insurers and	Archaeology and	Noted.	N
	Secondly, it is widely recognised that ships' anchors pose a significant hazard to submarine cables as they are designed to penetrate the seabed. The depth of penetration will depend on the size and type of anchor and the nature of the seabed. Hence, the Chamber is concerned that cable burial at typical depths does not fully safeguard against anchor fouling and entanglement. This was exemplified through the incident of the Stema Barge II incident in the English Channel when emergency anchoring led to the IFA interconnector being fouled and cut though. Passing the cost of potential fouling and disentanglement to the shipping	Archaeology and	Noted.	N

NFOWFS3_037_016_140 723		Offshore Archaeology and Cultural Heritage	Noted.	N
	Thirdly, through the leaving of cabling in situ, future seabed activity in the area is significantly constrained, either rendered unfeasible, or costly for the next seabed user to remove or work around such cabling. Yours faithfully, Robert Merrylees Policy Manager (Safety & Nautical) & Analyst			

NFOWFS3_038_001_140 723	North Falls Offshore Wind Farm Limited Windmill Hill Business Park Whitehill Way Swindon Wiltshire SN5 6BP By email only 14 July 2023 Dear Sir/Madam North Falls Offshore Wind Farm, Preliminary Environmental Information Report (PEIR), Stage 2 consultation Thank you for the opportunity for the RSPB to respond to the North Falls Stage 2 consultation. We provide our comments below, referring principally to Offshore Ornithology (PEIR, Chapter 13) and its appendices, unless stated otherwise. Due to staff constraints the RSPB has not fully reviewed the full PEIR documentation, but we present our high-level comments below. However, we	Offshore Ornithology	RSPB concerns are noted.	N
	the RSPB has not fully reviewed the full PEIR documentation, but we present our high-level			
	backed gull, guillemot and razorbill.			

NFOWFS3_038_002_140 723	1. Offshore ornithology Site Characterisation The RSPB welcome the Digital Aerial Survey work carried out by HiDef on behalf on the Applicant, and the details provided in the Offshore Ornithology Technical Report, Appendix 13.2. For the presentation of this information for the full assessment, we would recommend that the Applicant considers the recent NatureScot report on Digital Aerial Surveys, an output of work from its' Scientific Advisory Board, which includes recommendations on how best to present such work and necessary statistical consideration.	Offshore Ornithology		The report from NatureScot was published in January 2023 and includes 17 recommendations regarding Digital Aerial Survey. The NatureScot report postdates the North Falls surveys by some years. The majority of the NatureScot recommendations are included in the standard HiDef approach to survey and reporting.	N
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NFOWFS3_038_00 723	• We welcome the presentation of the survey timings and note that very few surveys ended later than 1400, and so a full account should be given of any potential biases in the results that may arise from this.	Offshore Ornithology	Practical limitations mean that surveys are usually conducted during the 'middle' period of the day, especially; nocturnal flying, available daylight hours for working times and minimising glare. Surveys are designed to characterise the seabird use of an area of sea and variation in that use is explicitly acknowledged but the typical densities of birds at sea are expected to be sampled appropriately by this procedure.	N

NFOWFS3_038_004_140 723	There is evidence that the neap/spring tidal cycle can influence that at sea distribution of birds. As such, the RSPB would welcome consideration of this in the presentation of the survey timings and a discussion of how this may affect the resultant site characterisation	Offshore Ornithology	Tidal data have been extracted via the UK Tide Gauge Network (2024) for the closest site to the OWF area (Harwich) for the relevant dates. Data for tide heights are provided at fifteen-minute intervals and were joined to the observations databased on the median time of each survey, rounded to the closest fifteen-minute interval. Tide height is plotted against apportioned density estimates (without availability bias corrections) in Appendix 13.2, Figure 13.2.5 (document reference 3.3.13). Spearman's rank correlation coefficient and associated p value are provided for each species, limiting the data to species present in more than five surveys and with more than ten observations across all surveys. Two species (common tern and guillemot) show significant (P<0.05) positive correlation between tide height and density, with lesser black-backed gull and razorbill showing weaker non-significant positive correlation. There are likely to be multiple correlated seasonal effects here that make it difficult to unpick the effects of tidal height from, e.g., meteorological effects and this would require substantial investigation across multiple study areas to draw any firm conclusions regarding these relationships.	N
NFOWFS3_038_005_140 723	Collision Risk • The RSPB welcome the use of the Stochastic Collision Risk Model (CRM) to predict the mortalities that may arise from collision of birds with rotating turbine blades. We also welcome that the modelling will be carried out with avoidance rates given in the UK SNCBs (SNCB, 2014) advice notei	Offshore Ornithology	The SNCB 2014 advice on avoidance rates was used for PEIR, however for the ES and HRA CRM has been carried out using updated avoidance rates as advised by Natural England.	N
NFOWFS3_038_006_140 723	As the Applicant points out, there is more up to date advice on the parameterisation of the CRM due to be published by the SNCBs, and the RSPB will provide commentary on this once we have had an opportunity to review it. A key focus of this is likely to be how the available evidence used in the	Offshore Ornithology	RSPB's position is noted. As above, for the ES and HRA to accompany the DCO submission, CRM parameters and methodology have been updated to reflect the latest advice from Natural England. For gannet, reduction in density to reflect evidence relating macro-avoidance of OWF turbine arrays has been applied in all seasons, based on advice from Natural England.	N

	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1			
	advice relates to seasonality in gannet behaviour			
NFOWFS3_038_007_140 723	Distributional change • The RSPB notes that the Applicant is using the matrix approach to the assessment of mortality implications of distributional change arising through displacement and barrier effects. We would welcome discussion as to why the SeaBORD approach has not been used, an approach which is more biologically meaningful as it accounts not only for adult mortality but impacts on productivity and chick survival arising from that distributional change.	Offshore Ornithology	The SeaBORD modelling approach to displacement is not recommended for use by Natural England. For more information, See Appendix 13.1 of the ES (3.3.12).	N
NFOWFS3_038_008_140 723	The RSPB also point out that if the matrix approach is used, that because it does not account for changes in productivity and chick survival, that an appropriate level of precaution is used in determining the displacement and mortality rates, as explicitly recommended in the SNCB guidance	Offshore Ornithology	The issue of potential effects of displacement on productivity and chick survival is referred to in the ES and RIAA, although it is not possible to make quantitative predictions for any potential changes in productivity and chick survival in relation to displacement. Thus, the displacement assessments focus on potential effects on the mortality of adult and subadult birds.	N
NFOWFS3_038_009_140 723	Compensation Measures The RSPB welcomes consideration of compensation measures but has not had an opportunity to fully review these (including Draft In Principle Compensation Options Review). However, currently we do not consider there has been full consideration of the mitigation hierarchy nor that there is sufficient evidence for the effectiveness of any of the proposed measures. We will	Offshore Ornithology	RSPB's position is noted. For the DCO submission, refinements have been made to the project design envelope in accordance with the mitigation hierarchy. This is discussed further in the HRA Derogation Case. Compensation measures have been further developed in consultation with the ETG, with evidence presented for success.	N

	provide more detailed comments when the final proposals are submitted.			
NFOWFS3_038_010_140 723	2. Onshore ornithology We have also considered Onshore Ornithology (PEIR, Chapter 24). We note the aspiration to deliver a minimum of 10% biodiversity net gain (BNG) for the onshore elements of the project (Table 24.5). The RSPB would welcome without prejudice discussions as an ecological stakeholder as to potential habitat and species projects for this, in advance of the submission of the project's Environmental Statement.	Onshore Ornithology	Noted. The Project would be keen to discuss with RSPB the options for BNG post-consent once detailed design has taken place and clearer understanding of the potential BNG achievable has been determined.	N
NFOWFS3_038_011_140 723	We welcome the headline commitment to avoid direct impacts on Holland Haven SSSI (and buffer zone) by selecting a landfall outside the protected site and by using HDD techniques. The RSPB reserves the right to amend our position on any of these or other matters when the full Application is submitted, and we have had adequate time to review. Yours faithfully, Renny Henderson Casework Officer i UK SNCBs (2014) Joint response from the Statutory Nature Conservation Bodies to the Marine Scotland Science Avoidance Rate Review	Onshore Ornithology	Noted.	N

NFOWFS3_039_001_040 723	Dear Sir/Madam, I have read the plans and documents you sent BUUK recently in regard to North Falls Offshore Wind Farm. Processing your plans and details I have deduced that the onshore scoping boundary includes a lot of GTC assets within it.	Infrastructure and Other Users	The Project does include onshore landfall, export cable installation and construction of an onshore substation within the onshore project area. The offer of additional asset plans is welcomed. We have undertaken a utilities search for the onshore project area and sought to avoid utilities assets where practicable. Where we do interact with these, the effects are assessed in Chapter 22 Land Use and Agriculture (Volume I) (document reference 3.1.24) of the ES.	N
NFOWFS3_039_002_040 723	Is this area going to be developed or is just the off shore red line site boundary where construction will occur? Please see the attached the images showing all of the GTC networks within the scoping boundary area.	Site Selection and Assessment of Alternatives		
NFOWFS3_039_003_040 723	Please note there are no GTC assets in the offshore red line boundary. If you would require the onshore asset plans please let us know and we can forward them to you. If you require any other information or assistance, please do not hesitate to contact us further. Yours faithfully, William Price Project Officer	N/A		

NFOWFS3_040_001_17 0523	It appears that the turbine envelope (in terms of area covered and turbine sizes) is unchanged from that which we looked at in late 2021. Our position therefore remains as stated then (email attached). Please keep us informed as the development design matures and when you are ready we are happy to discuss what this radar impact means and what can potentially be done about it.	Project Description	Noted. Further consultation has been undertaken to confirm that WTGs in the array area would have no impact on Cromer or Debden PSRs.	N
	Hi Tom Please see below assessment: The worst case scenario turbine dimensions of 229m to hub and 397m to tip have been used. Southern Turbines - no impact expected Northern Turbines Cromer - The turbines are expected to be visible Debden - The turbines are expected to be visible approx 5% of the time			

NFOWFS3_041_001_14	To whom it may concern:	Introduction	Noted.	N
0723	Thank you for identifying NHS			
	Suffolk and North East Essex			
	Integrated Care Board (SNEE ICB)			
	as a prescribed consultee under			
	section 42 of the Planning Act			
	2008 and/or Regulation 11 of the			
	2017 Infrastructure Planning			
	(Environmental Impact			
	Assessment) Regulations.			
	SNEE ICB has reviewed the			
	documentation provided for this			
	consultation, along with the			
	responses it previously submitted			
	in one-one consultations carried			
	out in March 2023, the Non-			
	Statutory Public Consultation			
	(December 2022) and Scoping			
	Report (August 2021). It has also			
	liaised with NHS partners in the			
	local area and the following			
	comments are a combined			
	response on behalf of SNEE ICB			
	and the following organisations:			
	· East Suffolk & North East Essex			
	Foundation Trust (ESNEFT)			
	· East of England Ambulance			
	Service NHS Trust (EEAST)			
	· North East Essex Health and			
	Wellbeing Alliance			
	· Essex Partnership University			
	Trust (EPUT)			
	System partners are generally			
	supportive of this proposal and can			
	see the overall benefits of the			
	scheme, as it is instrumental in			
	introducing and harnessing			
	renewable and affordable energy.			
	The comments below, which we			
	hope are helpful and supportive,			
	build on the previous responses			
	provided by SNEE ICB and its			
	system partners to the earlier			
	scoping exercise and consultations			
	that have taken place and the			
	subsequent review of the			
	Preliminary Environmental Impact			
	Report (PEIR).			
	A) Demand on healthcare services			

NFOWFS3_041_002_14	1. The ICB identified a need to	Human Health	Section 31.6 of Chapter 31 (Socio-Economics)	N
0723	ensure that the Environmental		provides an assessment of the pressure on local	
	Statement (ES) provides details on how the potential increase in		onshore infrastructure services. The assessment was further explained and justified in the ETG	
	demand on all healthcare services		meeting held in May 2024. NHS Suffolk and North-	
	in the areas surrounding the proposed development, as a result		East Essex ICB provided no further evidence to suggest the significance of effect should be	
	of an influx of additional temporary workers, will be mitigated against.		increased.	
			Traffic and transport effects of the Project	
			(including driver delay to all vehicle users (including emergency services)) have been	
			considered in Chapter 27 Traffic and Transport	
			(Volume I) (document reference 3.1.29) of the ES and in Section 28.6.1.5 of Chapter 28 (Human	
			Health).	
			Effects on local onshore infrastructure and services	
			(housing and health) are considered in Chapter 31 Socio-economics (Volume I) (document reference	
			3.1.33) of the ES and Chapter 27 Traffic and	
			Transport (Volume I). Effects on health services are presented in Section 28.6.1.5 of Chapter 28	
			(Human Health).	
			Cumulative effects with other projects are	
			presented in Section 28.8.3 of Chapter 28 (Human Health).	
			A consultation meeting was held in September	
			2023 with the NHS Suffolk and North East Essex ICB jointly with the Five Estuaries Offshore Wind	
			Farm.	
			Meetings have been held with EEAST (26 March	
			2024 and 28 May 2024) and NHS Suffolk and North East Essex Integrated Care Board (ICB) (23	
			May 2024). Discussions are ongoing with the	
			intention of reaching a jointly agreed Statement of	
			Common Ground. These meetings are addressed in Section 3 of the Consultation Report (document	
			reference 4.1).	

NFOWFS3_041_003_14 0723	2. The ICB and its partners are pleased to see that a specific chapter (chapter 28) of the PEIR has been devoted to assessing the impact of the development on human health and in particular that a Health Impact Assessment (HIA) has been undertaken, which has looked at the health impact of various factors on the local population. 3. In addition the ICB and its partners acknowledge that chapter 31 of the PEIR assess the demand on local healthcare services caused by an influx of temporary workers required for the duration of the project. It is pleasing to see that the PEIR recognises the current significant capacity constraints within primary care services in the geographical area surrounding the project, the higher than average waits for ambulance services and for Accident and Emergency (A&E) services at the local acute hospitals. All of this contributes to the assessment that the sensitivity of the health care receptor as being high.	Human Health	The data being referred to is set out within Section 31.5.4 of Chapter 31 (Socio-Economics). As part of the ETG held with NHS Suffolk and North- East Essex ICB in May 2024, The Applicant provided an opportunity for NHS Suffolk and North- East Essex ICB to highlight any additional data for consideration in the ES. Traffic and transport effects of the Project (including driver delay to all vehicle users (including emergency services)) have been considered in Chapter 27 Traffic and Transport (Volume I) (document reference 3.1.29) of the ES and in Section 28.6.1.5 of Chapter 28 (Human Health). Effects on local onshore infrastructure and services (housing and health) are considered in Chapter 31 Socio-economics (Volume I) (document reference 3.1.33) of the ES and Chapter 27 Traffic and Transport (Volume I). Effects on health services are presented in Section 28.6.1.5 of Chapter 28 (Human Health). Cumulative effects with other projects are presented in Section 28.8.3 of Chapter 28 (Human Health). A consultation meeting was held in September 2023 with the NHS Suffolk and North East Essex ICB jointly with the Five Estuaries Offshore Wind Farm. Meetings have been held with EEAST (26 March 2024 and 28 May 2024) and NHS Suffolk and North East Essex Integrated Care Board (ICB) (23 May 2024). Discussions are ongoing with the intention of reaching a jointly agreed Statement of Common Ground.	Z

NFOWFS3_041_004_14 0723	The PEIR also identifies that the pressure on local healthcare	Human Health	Section 31.6 of Chapter 31 (Socio-Economics) provides an assessment of the pressure on local	N
	infrastructure, caused by the influx of construction workers, as minor		onshore infrastructure services. The assessment was further explained and justified in the ETG	
	adverse and not significant in		meeting held in May 2024. NHS Suffolk and North-	
	terms of the Environmental Impact Assessment (EIA).		East Essex ICB provided no further evidence to suggest the significance of effect should be	
	5. This is something that the ICB and its partners would challenge,		increased.	
	as this assessment appears to		Traffic and transport effects of the Project	
	have been made purely on the impact to primary care services		(including driver delay to all vehicle users (including emergency services)) have been	
	and in particular the impact on the availability of the number of GPs		considered in Chapter 27 Traffic and Transport (Volume I) (document reference 3.1.29) of the ES	
	per patient registrations.		and in Section 28.6.1.5 of Chapter 28 (Human Health).	
			Effects on local onshore infrastructure and services (housing and health) are considered in Chapter 31	
			Socio-economics (Volume I) (document reference 3.1.33) of the ES and Chapter 27 Traffic and	
			Transport (Volume I). Effects on health services	
			are presented in Section 28.6.1.5 of Chapter 28 (Human Health).	
			Cumulative effects with other projects are presented in Section 28.8.3 of Chapter 28 (Human	
			Health).	
			A consultation meeting was held in September	
			2023 with the NHS Suffolk and North East Essex ICB jointly with the Five Estuaries Offshore Wind	
			Farm.	
			Meetings have been held with EEAST (26 March 2024 and 28 May 2024) and NHS Suffolk and	
			North East Essex Integrated Care Board (ICB) (23	
			May 2024). Discussions are ongoing with the intention of reaching a jointly agreed Statement of	
			Common Ground. These meetings are addressed in Section 3 of the Consultation Report (document	
			reference 4.1).	

NFOWFS3_041_005_14 0723	6. The assessment in chapter 31 doesn't appear, at this stage, to have considered the impact on wider healthcare services outside of a GP service, for instance the availability of alternative non-GP services in a primary care setting, the impact on ambulance waiting times and A&E attendance for emergency and non-emergency situations. 7. This later point is especially relevant if the non-local temporary workforce are not expected to register with a local GP, as highlighted in chapter 31 of the PEIR. Instead they are more likely to attend one the local A&E or Urgent Treatment Centres (UTC) if they require access to local healthcare services.	Human Health	Section 31.6 of Chapter 31 (Socio-Economics) provides an assessment of the pressure on local onshore infrastructure services. The assessment was further explained and justified in the ETG meeting held in May 2024. NHS Suffolk and North-East Essex ICB provided no further evidence to suggest the significance of effect should be increased. Traffic and transport effects of the Project (including driver delay to all vehicle users (including emergency services)) have been considered in Chapter 27 Traffic and Transport (Volume I) (document reference 3.1.29) of the ES and in Section 28.6.1.5 of Chapter 28 (Human Health). Effects on local onshore infrastructure and services (housing and health) are considered in Chapter 31 Socio-economics (Volume I) (document reference 3.1.33) of the ES and Chapter 27 Traffic and Transport (Volume I). Effects on health services are presented in Section 28.6.1.5 of Chapter 28 (Human Health). Cumulative effects with other projects are presented in Section 28.8.3 of Chapter 28 (Human Health). A consultation meeting was held in September 2023 with the NHS Suffolk and North East Essex	N
			Meetings have been held with EEAST (26 March 2024 and 28 May 2024) and NHS Suffolk and North East Essex Integrated Care Board (ICB) (23 May 2024). Discussions are ongoing with the intention of reaching a jointly agreed Statement of Common Ground. These meetings are addressed in Section 3 of the Consultation Report (document reference 4.1).	

NFOWFS3_041_006_14 0723	8. In addition this is increasingly relevant due to the cumulative effect of other NSIPs currently being planned for the locality, including but not limited to Sizewell C, widening of the A12 and the North Falls wind farm.	Human Health	The cumulative effects assessment is presented in Section 31.8 of Chapter 31 (Socio-Economics). This includes consideration of cumulative impacts on infrastructure and services (housing and health). Traffic and transport effects of the Project (including driver delay to all vehicle users (including emergency services)) have been considered in Chapter 27 Traffic and Transport (Volume I) (document reference 3.1.29) of the ES and in Section 28.6.1.5 of this Chapter 28 (Human Health). Effects on local onshore infrastructure and services (housing and health) are considered in Chapter 31 Socio-economics (Volume I) (document reference 3.1.33) of the ES and Chapter 27 Traffic and Transport (Volume I). Effects on health services are presented in Section 28.6.1.5 of Chapter 28 (Human Health).	N
			Cumulative effects with other projects are presented in Section 28.8.3 of Chapter 28 (Human Health).	
			A consultation meeting was held in September 2023 with the NHS Suffolk and North East Essex ICB jointly with the Five Estuaries Offshore Wind Farm.	
			Meetings have been held with EEAST (26 March 2024 and 28 May 2024) and NHS Suffolk and North East Essex Integrated Care Board (ICB) (23 May 2024). Discussions are ongoing with the intention of reaching a jointly agreed Statement of Common Ground. These meetings are addressed in Section 3 of the Consultation Report (document reference 4.1).	

NFOWFS3_041_008_14 0723	10. In order to facilitate this the ICB and its partners are willing and available to undertake further engagements with the developer to fully assess the current capacity position in the overall local healthcare system, the impact of the influx of temporary workers on	Human Health	Please see response immediately above. Traffic and transport effects of the Project (including driver delay to all vehicle users (including emergency services)) have been considered in Chapter 27 Traffic and Transport (Volume I) and in Section 28.6.1.5.	N
	the system and the development of appropriate mitigating actions to address any acknowledged impacts.		Effects on local onshore infrastructure and services (housing and health) are considered in Chapter 31 Socio-economics (Volume I) and Chapter 28 Traffic and Transport (Volume I). Effects on health services are presented in Section 28.6.1.5. Cumulative effects with other projects are presented in Section 28.8.3.	
			A consultation meeting was held in September 2023 with the NHS Suffolk and North East Essex ICB jointly with the Five Estuaries Offshore Wind Farm.	
			Meetings have been held with EEAST (26 March 2024 and 28 May 2024) and NHS Suffolk and North East Essex Integrated Care Board (ICB) (23 May 2024). Discussions are ongoing with the intention of reaching a jointly agreed Statement of Common Ground. These meetings are addressed in Section 3 of the Consultation Report (document reference 4.1).	

NFOWFS3_041_009_14 0723	11. Such an assessment will ensure that the likely demand on local healthcare services is fully understood and appropriate plans are agreed and put in place to address any identified shortfalls ahead of the DCO submission. These measures would also need to be captured as either requirements within the DCO approval process and/or via Section 106 planning obligations linked to attaining planning consent for the project.	Human Health	Please see response immediately above. Traffic and transport effects of the Project (including driver delay to all vehicle users (including emergency services)) have been considered in Chapter 27 Traffic and Transport (Volume I) and in Section 28.6.1.5. Effects on local onshore infrastructure and services (housing and health) are considered in Chapter 31 Socio-economics (Volume I) and Chapter 28 Traffic and Transport (Volume I). Effects on health services are presented in Section 28.6.1.5. Cumulative effects with other projects are presented in Section 28.8.3. A consultation meeting was held in September 2023 with the NHS Suffolk and North East Essex ICB jointly with the Five Estuaries Offshore Wind Farm. Meetings have been held with EEAST (26 March 2024 and 28 May 2024) and NHS Suffolk and North East Essex Integrated Care Board (ICB) (23 May 2024). Discussions are ongoing with the intention of reaching a jointly agreed Statement of Common Ground These meetings are addressed.	N
			Common Ground. These meetings are addressed in Section 3 of the Consultation Report (document reference 4.1).	
NFOWFS3_041_010_14 0723	B) Major accidents or disasters 1. It is noted that in Chapter 5 of the PEIR there is reference to the potential impact on various aspects as a result of a major accident or disaster, in particular once the development has been completed. 2. However the information in this chapter does not make reference to the potential impact on healthcare services from a major accident or disaster occurring during the various phases of construction, both offshore and onshore.	Human Health	Likely significant effects upon local healthcare services are assessed in Chapter 28 Human Health (Volume I), with details regarding the impacts upon people suffering health inequalities are detailed in Chapter 30 Socio-economics (Volume I). Chapter 34 (Major Accidents and Disasters) provides further detail regarding the effects upon the Project of major accidents and disasters.	N

NFOWFS3_041_011_14 0723	3. Whilst the PEIR recognises the availability of local A&E and bluelight services it hasn't assessed the impact on these services from such an event occurring during both construction phases, something that is statistically more likely to occur during construction than once the project has been finished and the wind farm is operating. For greater detail on some of the impacts a major accident or disaster could have please review the specific section in the response provided by EEAST (appendix 2). 4. In addition the PEIR hasn't suggested any healthcare specific mitigating actions that could be put in place. 5. Hence the ICB and its partners request that this specific aspect is fully assessed and mitigations developed in collaboration with relevant local healthcare organisations, with consideration being given to securing the mitigating actions via a Section 106 planning obligation, ahead of the ES being produced.	Human Health	Note that as discussed in Section 34.5.2.7 of ES Chapter 34 (Major Accidents and Disasters) offshore wind has a good (and improving) health and safety record. Given the number of workers involved in construction (a peak of 471 (see Chapter 31 Socio-Economics, Volume I)) and safety record there is minimal risk of workplace accidents and reliance on local services (see also Table 28-5 in Chapter 28 Human Health, Volume I)	N
NFOWFS3_041_012_14 0723	C) Traffic issues and emergency services response times including cumulative effects 1. It is clear from the PEIR that both the offshore and onshore construction works will result in road closures, diversions and substantial HGV traffic, all of which could severely impact on the ability of EEAST, and other blue-light services, to respond to emergency or category 1 calls	Traffic and transport	Noted. Please also note that effects upon human health are considered within Chapter 28 Human Health (Volume I).	N
NFOWFS3_041_013_14 0723	. Such situations could have a detrimental effect on patient health. 2. A full assessment, including mitigation measures, of the potential impact to EEAST is	Human Health		

	absent from the PEIR. Hence the ICB and EEAST are requesting that this be undertaken and included, in collaboration with appropriate representatives, as part of the ES and/or it forms a distinct part of the assessment on healthcare services referred to elsewhere in this response.			
NFOWFS3_041_014_14 0723	D) Socio-economics – education and training 1. The ICB notes the developer's proposal to prepare and implement an Outline Skills and Employment Plan as part of the DCO application, which will be secured through a DCO requirement. It requests that the ICB is involved in the development of this plan and there is the opportunity to assess the final plan prior to the submission of the DCO application. In support of SNEE ICB's response I also attach, as appendices, formal responses from East Suffolk & North Essex NHS Foundation Trust (appendix 1) and East of England Ambulance Service for your consideration (appendix 2). We hope you find our collective feedback helpful and constructive and we look forward to continuing to work collaboratively with North Falls Offshore Wind Farm Ltd as the scheme progresses. The main contact at SNEE ICB for doing this is Jon Haworth (planning.apps@snee.nhs.uk).	Socio-economics	Noted.	N

NFOWFS3_042_001_230 523	Dear Thomas, Thanks for sight of this email and for the opportunity to respond to the Statutory consultation. I have now had an opportunity to look at the shipping and navigation chapters of the PEIR and the PEIR addresses those point the RYA sets out in it position on offshore wind energy. The two main issues for the Rya are operational safety zones and depth over chart datum as the cable come ashore.	Shipping and Navigation	Noted.	N
NFOWFS3_042_002_230 523	In this context. The RYA is content to note that there are no plans to apply for operational safety zones other than those for construction, major maintenance and decommissioning and that at this stage the Applicant will also be MGN 654 compliant including in terms of underkeel clearance provisions i.e., depth will not be reduced by more than 5% unless otherwise agreed with the MCA. Consultation has been undertaken (and is ongoing) with HHA and PLA including via the Sunk User Group in relation to the offshore cable corridor including in relation to underkeel clearance. Please use me as the RYA point of contact for this project. Regards Stuart	Shipping and Navigation	Noted.	N

NFOWFS3_043_001_120	Dear Sir/Madam,	Introduction	Noted.	N
923	Re: North Falls Offshore Wind			
	Farm – Section 42 of the Planning			
	Act 2008 - Statutory Consultation			
	on Preliminary Environmental			
	Information Report (PEIR)			
	Thank you for consulting the			
	Ministry of Defence (MOD) in			
	advance of an application for the			
	construction and operation of the			
	North Falls Offshore wind farm.			
	Consultation correspondence was			
	received by this office on 16th May			
	2023.			
	The Defence Infrastructure			
	Organisation (DIO) Safeguarding			
	Team represents the Ministry of			
	Defence (MOD) as a consultee in			
	UK planning and energy			
	consenting systems to ensure that			
	development does not			
	compromise or degrade the			
	operation of defence sites such as			
	aerodromes, explosives storage			
	sites, air weapon ranges, and			
	technical sites or training			
	resources such as the Military Low			
	Flying System.			
	The MOD previously responded to			
	a consultation on a Scoping			
	Opinion for the North Falls			
	Offshore Wind Farm through a			
	letter dated 16th August 2021.			
	I write to provide the MOD			
	safeguarding position on			
	information provided in the			
	Preliminary Environmental			
	Information Report (PEIR)			
	Statement.			
	It is acknowledged that the final			
	design of this project has not yet			
	been determined and that an			
	indicative design envelope has			
	been provided. Chapter 5 of the			
	PEIR provides a description of the			
	project, stating that the project			
	could be made of up to 72			
	turbines, 379m to tip height. The			
	development is split into two array			

	areas: the southern and northern			
	array boundaries.			
NFOWFS3_043_002_120	Air Traffic Control	Aviation and	The northern array area has been removed from	Υ
923	Section 17.5.3 of Chapter 17	Radar	the Project, therefore WTGs would no longer be	
323	Aviation and Radar covers Military		detectable by Honington PSR.	
	Aviation. Paragraphs 60 – 62			
	references the MOD's Air Traffic		Modelling in Appendix 17.1 (Volume III) confirms	
	Control (ATC) Radars.		that WTGs within the remining array area would be	
	These paragraphs identify the		in RLoS and detected by Wattisham radar.	
	closest military aerodromes and		,	
	identifies that the turbines will be		The MoD operational assessment showing no	
	detectable to the Primary		impact on operations at Wattisham Station is	
	Surveillance Radar (PSR) at		acknowledged and noted in Section 17.6.2.1.2.	
	Wattisham Station. Paragraph 62			
	also identifies that the turbines will			
	not be detectable to the PSR at			
	RAF Honington.			
	The MOD has undertaken an			
	assessment based on 72 wind			
	turbines at 397m to tip height			
	using the Rochdale Envelope			
	boundary co-ordinates. This			
	assessment identified that part of			
	the northern array area will be			
	detectable to the PSR at RAF			
	Honington and turbines within both			
	the northern and southern array			
	areas will be detectable to the			
	areas will be detectable to the			
	Wattisham Station PSR. An			

	has also been carried out by the MOD which has confirmed that turbines within both the northern and southern array areas will not affect either RAF Honigton's or Wattisham Stations operations. The development will therefore have no impact on Air Traffic Control radars deployed at these military aerodromes. This is based on the information available at this stage. Any variations to the number or height of the turbines proposed may change this position.			
NFOWFS3_043_003_120 923	Air Defence Radar Section 17.5.3 of Chapter 17 Aviation and Radar covers Military Aviation. Paragraphs 63 – 67 references the MOD's Air Defence (AD) Radars. Wind turbines have been shown to have detrimental effects on the operation of AD radar. These include the desensitisation of the radar in the vicinity of wind turbines, and the creation of "false" aircraft returns. The probability of the radar detecting aircraft flying over or in the locality of the turbines would be reduced, hence turbine proliferation within a specific locality can result in unacceptable degradation of the radar's operational integrity. This would reduce the RAF's ability to detect and manage aircraft in United Kingdom sovereign airspace, thereby preventing it from effectively performing its primary function of Air Defence of the United Kingdom. Within paragraphs 63 - 67 of section 17.5.3, it is claimed that only turbines within the northern	Aviation and Radar	The northern array area has been removed from the Project. The relocation of the AD radar from Trimingham to Neatishead is acknowledged and noted in Section 17.5.3.	Y

	array area would be visible and detected by the AD radars at RRH Trimingham and RRH Neatishead. Due to the relocation of the AD radar based at RRH Trimingham to RRH Neatishead, there is no requirement for the RRH Trimingham AD radar to be taken into account or mitigation provided.			
NFOWFS3_043_004_120 923	The MOD has undertaken an assessment based on 72 wind turbines at 397m to tip height using the Rochdale Envelope boundary co-ordinates. Turbines within both the southern and northern array areas will be detectable to the AD Radar at RRH Neatishead. The impact of the turbines on the AD radar at RRH Neatishead will therefore need to be addressed through a suitable technical mitigation solution. It is the applicant's responsibility to provide a suitable technical mitigation solution to the MOD. Mitigation to address the impact of the development on the two AD Radars is considered at 17.6.2.1.5. It is stated that engagement with the MOD will continue throughout the application process, this is welcomed.	Aviation and Radar	Modelling in Appendix 17.1 (Volume III) shows that WTGs within the array area would not be in RLoS of Neatishead. MoD modelling was based on WTGs with a higher tip height, therefore the reduction in WTG size may alter their conclusion. Consultation with MoD is ongoing to confirm radar detection. The impact of WTGs on radars is discussed in Section 17.6.2.1 together with possible mitigations.	Y
NFOWFS3_043_005_120 923	Danger Areas Sections 68 – 71 of 17.5.3 of Chapter 17 Aviation and Radar identifies nearby danger areas and airspace, and states that the North Falls Wind Farm is well away from	Aviation and Radar	Noted.	N

	these, the MOD agrees with this conclusion.				
NFOWFS3_043_006_120 923	Military Low Flying The potential for the development to create physical obstructions to military low flying activities is acknowledged within Section 17.6.2.2 of Chapter 17 Aviation and Radar and the requirement for military aviation charts to be updated is recognised at paragraph 22 of Section 17.3.3.1. The MOD will request that a Requirement is added to any Development Consent Order that might be issued requiring the submission of information such as commencement dates, maximum turbine heights and the longitude and latitude of each wind turbine. This information is required to allow accurate charting of the development.	Aviation and Radar		Noted.	N
NFOWFS3_043_007_120 923	Paragraph 28 of Section 17.3.3.2 includes the MOD's lighting requirements for the development. It is welcomed that the turbines will be fitted with infra-red lighting in combination with the ANO's lighting requirement. The MOD will request that the aviation warning lighting requirements is added as a Requirement to any Development Consent Order that might be issued.	Aviation and Radar		Noted.	N
NFOWFS3_043_008_120 923	Practice and Exercise Areas (PEXA) Practice and Exercise Areas also known as PEXA, are designated areas of the sea where military exercises can be undertaken. Section 18.5.6 of Chapter 18 Infrastructure and Other Activities,	Site selection	Infrastructure and other users	Noted.	N

			•		
	lists the relevant PEXA which either overlap with the development area or are nearby. It is stated within Section 18.6.1.5 that the development will have no impact on MOD activities. The MOD agrees with this statement in relation to PEXA.				
NFOWFS3_043_009_120 923	Unexploded Ordnance (UXO) The potential for unexploded ordnance (UXO) to be present within the development area and the necessity for clearance is acknowledged within Chapter 5 Project Description at Section 5.6.4.1.2. The potential presence of UXO and disposal sites should be a consideration during the installation and decommissioning of turbines, cables, and any other infrastructure, or where other intrusive works are necessary. In addition to UXO, the presence of a designated explosives dumping ground within the eastern part of the Gunfleet PEXA (X5118), should also be taken account of.	Site selection	Infrastructure and other users	The disused UXO dumping ground in the eastern part of Gunfleet PEXA X5118 has been avoided through the route selection of the offshore cable corridor.	Y
NFOWFS3_043_010_120 923	Highly Surveyed Routes The MOD has highly surveyed routes within the locality of the development area which maybe relevant to the installation of wind turbines, export cables & associated infrastructure. These routes are retained by the MOD to support national defence requirements and are not defined in the public domain. Highly surveyed routes must not be obstructed or impeded by offshore developments such as wind turbines. At this time, we are unable to advise if the development will impede any highly surveyed routes in the area. An assessment to determine any impact has been requested and we will share the results with you	Infrastructure and other users		Noted.	N

	as soon as we are able to. I trust this is clear however should you have any questions please do not hesitate to contact me.			
NFOWFS3_044_001_030 723 NFOWFS3_044_002_030 723	North Falls Offshore Windfarm: Stage 2 Consultation – Representations on behalf of East Suffolk and North Essex NHS Foundation Trust (ESNEFT) 1. On behalf of our client, East Suffolk and North Essex NHS Foundation Trust (ESNEFT), we write to provide our response to the North Falls Offshore Windfarm Project's Stage 2 Consultation. This letter comprises a review of, and comments on, the Preliminary Environmental Impact Report (May 2023) in respect of potential impacts arising from the proposed development on ESNEFT'S acute healthcare facilities and services. 2. Please note that the representations contained in this letter form part of an overall response from the Suffolk and North East Essex Integrated Care Board (ICB), which draws together comments from other healthcare providers on the likely impacts on their respective facilities and services arising from the proposed windfarm development.	Introduction	Traffic and transport effects of the Project (including driver delay to all vehicle users (including emergency services)) have been considered in Chapter 27 Traffic and Transport (Volume I) and in Section 28.6.1.5. Effects on local onshore infrastructure and services (housing and health) are considered in Chapter 31 Socio-economics (Volume I) and Chapter 28 Traffic and Transport (Volume I). Effects on health services are presented in Section 28.6.1.5. A consultation meeting was held in September 2023 with the NHS Suffolk and North East Essex ICB jointly with the Five Estuaries Offshore Wind Farm. Meetings have been held with EEAST (26 March 2024 and 28 May 2024) and NHS Suffolk and North East Essex Integrated Care Board (ICB) (23 May 2024). Discussions are ongoing with the intention of reaching a jointly agreed Statement of Common Ground. These meetings are addressed in Section3 of the Consultation Report (document reference 4.1)	N
NFOWFS3_044_003_030 723	Background 3. ESNEFT was formed on 1st July 2018 and is the largest NHS Trust in the Region. It provides acute and community healthcare services for Colchester, Ipswich and wider rural local areas. Services are provided from Colchester and Ipswich General Hospitals, Aldeburgh, Clacton, Halstead, Harwich and Felixstowe	Introduction	Noted.	Z

	Community Hospitals and Bluebird			
	Lodge near Ipswich. Colchester and Ipswich Hospitals both have their own dedicated major accident and emergency (A&E) departments.			
NFOWFS3_044_004_030 723	4. Colchester Hospital occupies an area of approximately 19.3 hectares (47 acres) and is located to the west of Turner Road, east of the A134 Northern Approach Road, and north of Colchester town centre. The site provides acute, in and outpatient, and other healthcare facilities for Colchester and North Essex, including Colchester City and Tendring District, covering a catchment population of approximately 350,000 people. There are approximately 4,500 staff based at the Hospital, which operates on a 24 hours a day/ 7 days a week basis.	Introduction	Noted.	N
NFOWFS3_044_005_030 723	5. Ipswich Hospital occupies an area of approximately 19 hectares (47 acres) and is located to the west of Heath Road, east of Lattice Avenue, within east Ipswich. There are in excess of 3,000 staff employed at the hospital, which also operates on a 24 hours a day/ 7 days a week basis, providing a range of in and outpatient facilities to the East Suffolk area.	Introduction	Noted.	N
NFOWFS3_044_006_030 723	6. ESNEFT works with other health and community care partnership organisations and is part of the Integrated Care System (ICB), which is committed to working together to integrate care and deliver better outcomes for patients.	Introduction	Noted.	N

NFOWFS3_044_007_030 723	Model of Care 7. Health and care services and the way they are organised, both from a commissioner and provider perspective are in the process of change. The way they are organised is also changing, with a view to improving the health and wellbeing of the population and reduce health inequalities. Hospital services are to be reconfigured and transformed with new models of care, meaning more care will be provided as close to people's homes as possible.	Human Health		Noted.	N
NFOWFS3_044_008_030 723	This focus on bringing care provision into the community may see the creation of healthcare 'hubs' / networks and greater integration of services and shared assets. In addition, there may be a need to increase estate or investment in buildings and infrastructure to make them fit for purpose.	Human Health		Noted.	N
NFOWFS3_044_009_030 723	8. As an NHS Trust, ESNEFT has no routing eligibility to capital allocations from either the Department of Health and Social Care (DHSC) or local commissioners to provide new capital capacity to meet additional healthcare demands. This is particularly relevant when considering the impacts of new significant development, such as the proposed windfarm scheme, coming forward outside of ONS population projections and planned growth included within Local Plans for the area.	Socio-economics		Noted.	N
NFOWFS3_044_010_030 723	Therefore, S106 and Community Infrastructure Levy (CIL) contributions are needed to mitigate additional impacts of development on acute services provision, which will be an important component of ESNEFT's	Socio-economics	Introduction	Noted.	N

	overall funding and delivery capabilities.				
NFOWFS3_044_011_030 723	9. ESNEFT has prepared masterplans for the Colchester and Ipswich Hospital sites, informed by its 2022 updated healthcare investment programme. These masterplans are updated (as necessary) to reflect the Trust's evolving healthcare requirements, having regard to forecasted increased activity rates at the hospitals resulting from planned growth within the catchment area.	Socio-economics		Noted.	N
NFOWFS3_044_012_030 723	However, as mentioned above, 'windfall' development projects such as the North Falls Offshore Windfarm are not included in these forecasts and, therefore, mitigation of the impacts on healthcare services and facilities arising from these development would need to be secured as part of the associated consenting process.	Socio-economics	Project Description	Noted.	N
NFOWFS3_044_013_030 723	Representations 10. In response to the Stage 1 consultation, we note that Public Health England (PHE) identified a need to ensure that the Environmental Statement provides further detail to the acknowledgement of the potential demand on healthcare services including Primary and Secondary Care (including mental health).	Project Description		Noted. Traffic and transport effects of the Project (including driver delay to all vehicle users (including emergency services)) have been considered in Chapter 27 Traffic and Transport (Volume I) and in Section 28.6.1.5. Effects on local onshore infrastructure and services (housing and health) are considered in Chapter 31 Socio-economics (Volume I) and Chapter 28 Traffic	N
NFOWFS3_044_014_030 723	In addition, we note that the North East Essex Clinical Commissioning Group (CCG) requested that a review of ambulance emergency and non-emergency patient transport services is undertaken, with particular regard to the influx of additional temporary residents.	Project Description		and Transport (Volume I). Effects on health services are presented in Section 28.6.1.5. A consultation meeting was held in September 2023 with the NHS Suffolk and North East Essex ICB jointly with the Five Estuaries Offshore Wind Farm. Meetings have been held with EEAST (26 March	

				2004 and 20 May 2004) and NHO Coffelly and
NFOWFS3_044_015_030 723	11. ESNEFT has reviewed the Preliminary Environmental Impact Report (PEIR) published as part of the Stage 2 Consultation on the North Falls Offshore Windfarm Project and wishes to build on the previous consultation process and make the following comments.	Project Description		2024 and 28 May 2024) and NHS Suffolk and North East Essex Integrated Care Board (ICB) (23 May 2024). Discussions are ongoing with the intention of reaching a jointly agreed Statement of Common Ground. These meetings are addressed in Section3 of the Consultation Report (document refernece 4.1)
NFOWFS3_044_016_030 723	12. Chapter 28 of the PEIR (Human Health) acknowledges the impact of the proposed windfarm on the health of the existing population in relation to noise, amenity, air quality and contamination.	Project Description		
NFOWFS3_044_017_030 723	The applicant's intention is to undertake further consultation with stakeholders to prevent or minimise the health impacts on local communities, which is welcomed. ESNEFT, together with other members of the ICB, would be pleased to liaise further with the applicant on these matters.	Project Description		
NFOWFS3_044_018_030 723	13. Chapter 31 of the PEIR (Socio-Economics) refers to an increased demand for healthcare services that may arise as a result of workers involved in the project occupying temporary accommodation within the wider study area for a period of time during the construction and decommissioning phases. It is stated that there would be a requirement for up to 480 non-local workers during the construction of the development that could also potentially see additional family members relocate temporarily.	Socio-economics		
NFOWFS3_044_019_030 723	14. Therefore, a large number of construction workers and additional family members may require basic health services or public ambulance and hospital services at some point whilst being	Human Health	Project Description	

	temporarily relocated. It is noted		
	that a review of health provision has been undertaken in relation to the Suffolk and North East Essex ICB area.		
NFOWFS3_044_020_030 723	This identifies that there are significant capacity constraint issues in North East Essex and Suffolk and on that basis, the sensitivity of the health care receptor is assessed as high. This recognition is welcomed, but we consider that it would be useful to specify whether this relates to acute and secondary healthcare facilities as well as primary care services.	Socio-economics	Human Health
NFOWFS3_044_021_030 723	15. It is acknowledged that the applicant's assessment of healthcare impacts arising from the proposals is the subject of ongoing work and will be fully addressed in the forthcoming Environmental Statement that will accompany the Development Consent Order application.	Project Description	
NFOWFS3_044_022_030 723	16. The Trust welcomes this recognition that its services and facilities are likely to be affected by the project proposals and concurs that further work is required to ascertain the scope and scale of demand and the mitigation required to address the impacts.	Project Description	
NFOWFS3_044_023_030 723	Accordingly, it is requested that a Healthcare Impact Assessment (HIA) should be prepared by the applicant, in liaison with ESNEFT and the ICB. The HIA should be prepared in accordance with the advice and best practice published by Public Health England, the Essex Planning Officer's Association HIA Guidance Note, and the Suffolk County Council	Project Description	Socio-economics

	Guide to Infrastructure				
	Contributions to establish the current capacity position of ESNEFT's facilities and services, the likely level of demand for those services and facilities arising from the development project, and the means by which that demand				
	could be addressed.				
NFOWFS3_044_024_030 723	It is considered that the following information would be required to prepare the HIA: v The number of workers from outside the wider study area to be temporarily housed within ESNEFT's catchment area (temporary population); v The location of accommodation for the temporary population; v The ESNEFT healthcare facilities and services likely to be accessed by the temporary population and their current capacity position; and v The number of A&E attendances likely to arise over the construction and decommissioning phases.	Project Description	Socio-economics		
NFOWFS3_044_025_030 723	18. Alternatively, ESNEFT and the other ICB members would look to commission their own HIA of the proposed project and would submit this for review as part of the consultation process.	Project Description			
NFOWFS3_044_026_030 723	19. With regard to impacts from major accidents and disasters, it is noted that there are no specific references to major accidents or disasters in relation to their likely impact on healthcare and services, in particular within Chapter 31 (Socio-Economics) of the PEIR.	Human Health		Note that as discussed in Section 34.5.2.7 of ES Chpater 34 (Major Accidents and Disasters) offshore wind has a good (and improving) health and safety record. Given the number of workers involved in construction (a peak of 471 (see Chapter 31 Socio-Economics, Volume I)) and safety record there is minimal risk of workplace accidents and reliance on local services (see also Table 28-5 in Chapter 28 Human Health, Volume I)	N
NFOWFS3_044_027_030 723	Given that people affected by a major accident or disaster associated with the project are likely to be transferred to either Colchester or Ipswich Hospital, the impacts of such an event(s) on	Human Health	Project Description		

	these facilities should be fully addressed. Therefore, it is requested that the PEIR is updated accordingly, and that major accidents and disasters are included in the HIA.				
NFOWFS3_044_028_030 723	20. Any mitigation measures identified by the HIA as necessary to address the impacts arising from the proposed development would also need to be discussed and agreed with ESNEFT, and secured as planning obligations linked to the grant of any consent for the project.	Human Health	Project Description	Noted.	N
NFOWFS3_044_029_030 723	Summary 21. In summary, ESNEFT welcomes the applicant's recognition that the North Falls Offshore Windfarm project is likely to affect healthcare facilities and services during the construction and decommissioning phases.	Project Description		Noted.	N
NFOWFS3_044_030_030 723	22. In addition, the Trust supports the applicant's intention to engage with relevant stakeholders as part of the assessment work to be undertaken to establish the existing capacity position, the scope, scale and nature of the healthcare impacts arising, and the level of mitigation required to address the identified impacts, which would need to be secured via a planning obligation agreement linked to any consent prior to development commencing.	Project Description		Noted.	N
NFOWFS3_044_031_030 723	23. In order to assist with a timely and resource-efficient planning process, it is suggested that the extent of the healthcare impacts and related mitigation measures are fully assessed and agreed with the ICB prior to the DCO application submission.	Project Description	Human Health	Noted.	N

NFOWFS3_044_032_030 723	24. We trust the above representations will be taken into account as the project progresses into the DCO application process, and we would be grateful if you could acknowledge receipt of this submission.	Project Description	Noted.	N
NFOWFS3_044_033_030 723	25. On behalf of ESNEFT, we look forward to liaising with you on this project and would be pleased to address any comments or queries you may have.	N/A	Noted.	N
NFOWFS3_045_001_070 723	NORTH FALLS OFFSHORE WINDFARM PROJECT STATUTORY CONSULTATION - REF EN010119 The Planning Act 2008 & The Infrastructure Planning (Environmental Impact Assessment) Regulations 2017: Proposed Extension to the Greater Gabbard Offshore Windfarm - Interested Party Response by the East of England Ambulance Service NHS Trust We write in response to the SSE Renewables and RWE Renewables (SSERWE) consultation on proposals to extend the existing Greater Gabbard 504 MW Offshore Windfarm located in the Southern North Sea.	Introduction	Noted.	N
NFOWFS3_045_002_070 723	The North Falls Offshore Windfarm Project (NFOWP) is a Nationally Significant Infrastructure Project (NSIP) and SSERWE intend to apply to the Secretary of State for Business, Energy and Industrial Strategy for a Development Consent Order (DCO) under Section 37 of the Planning Act 2008, to authorise its construction. NFOWP is currently at the Stage 2 (Statutory) consultation stage closing on 14th July 2023, and as an INTERESTED PARTY The East of England Ambulance	Introduction	Noted.	N

	Service NHS Trust (EEAST) welcome the opportunity to engage with SSERWE in this process. EEAST's response forms an 'appendix' to the overarching submission made by the NHS Suffolk & North East Essex Integrated Care Board (ICB), with whom it operates in close association with.			
NFOWFS3_045_003_070 723	This letter and Annexes provide the necessary 'project context' to assist the review of EEAST's specific concerns, and should be read in conjunction with correspondence from its health and blue light partner organisations - incorporating Essex CC, Integrated Care Boards, Essex Police and Essex Fire & Rescue Service. EEAST previously responded to the NFOWP (Non-Statutory) Stage 1 consultation on 9th December 2022 as part of the ICB response, and is pleased to update its position following review of the Preliminary Environmental Information Report (PEIR).	Project Description	Noted.	N
NFOWFS3_045_004_070 723	NFOWP would be located within two array areas to the west of the Galloper and Greater Gabbard Offshore Windfarms, approximately 22km off the East Anglian Coastline, occupying a seabed area of 150km2. Offshore and onshore cables would export power generated via off/on shore substations to the National Grid.	Project Description	Noted.	N
NFOWFS3_045_005_070 723	EEAST has reviewed the documentation on the NFOWP consultation portal and consider that the Project is likely to have a significant impact on its operations, service capacity and resources (i.e. staff, vehicle fleet and estate assets) requiring	Project Description	Noted.	N

	appropriate mitigation and management measures to be identified at an early stage, and secured and implemented either as DCO Requirements and/ or via a Planning Obligation or Deed of Covenant.			
NFOWFS3_045_006_070 723	EEAST and its health and blue light partners therefore look forward to working with SSERWE, in order to; • Determine the baseline service capacity position(s) • Scope the likely type & extent of scheme impacts (effects) • Identify an appropriate type(s) level & duration of mitigation & management measures, including communication & liaison procedures. This is necessary to ensure that EEAST can continue to meet its targets and deliver on its priorities as a key healthcare and emergency services provider. The relevant considerations from EEAST's perspective are summarised below.	Human Health	Noted.	N
NFOWFS3_045_007_070 723	East of England Ambulance Service NHS Trust EEAST is commissioned by Suffolk and North East Essex ICS on behalf of all ICSs to provide emergency and urgent care services throughout Bedfordshire, Cambridgeshire, Essex, Hertfordshire, Norfolk and Suffolk. EEAST transports patients to 17 acute hospitals amongst other healthcare settings, including within Tendring DC, the local authority area affected by NFOWP's likely 'onshore' Order Limits. EEAST covers an area of approximately 7,500 sq miles with a resident population of over six million people and employs	Introduction	Noted.	N

	approximately 4,000 staff operating from 130 sites.			
NFOWFS3_045_008_070 723	The 999 service is free for the public to call and is available 24 hours a day, 7 days a week, 365 days a year, to respond to the population with a personalised contact service when patients. • Require rapid transportation with life threatening illness/injury or emergencies - category 1 and 2 • Present with lower acuity urgent and less urgent conditions - category 3 and 4 requiring clinical interventions • Patients may be passed to 999 via other NHS health care systems, including NHS 111 • EEAST receives over 1 million emergency (999) calls per year and 800,000 calls for patients booking non-emergency transport. EEAST also provides urgent and emergency responses to Healthcare Professionals requiring ambulance assistance, and interfacility transfers between hospitals and other healthcare settings, where patients require treatment at alternative sites to their current setting.	Introduction	Noted.	N

NFOWFS3_045_009_070 723	Non-Emergency Patient Transport Services (NEPTS) is a commissioned service providing an essential lifeline for people unable to use public or other transport due to their medical condition. Currently this service is provided by EEAST for the ICB areas within Essex likely to be affected by the NFOWP. These much-needed journeys support patients who are: • Attending hospital outpatient clinics • Being admitted to or discharged from hospital wards • Needing life-saving treatments such as radiotherapy, chemotherapy, renal dialysis or DVT treatment. Details of EEAST's service remit, priorities, staff, vehicle fleet and estate assets, service targets, coworking relationship with other healthcare and blue light partners, along with its operational standards and thresholds, are set out for information at Annex 1 &	Introduction	Noted.	N
NFOWFS3_045_010_070 723	Annex 2. North Falls Proposals – Project Overview Scheme Components Summary It is evident from SSERWE's consultation documents, and specifically, the Preliminary Environmental Information Report (PEIR) Chapter 5: Project Description, that NFOWP is an extension to the Greater Gabbard Offshore Wind Farm in the Outer Thames Estuary (Southern North Sea). At its closest point, the northern array boundary would be located 22.5km off the East Anglian Coastline occupying an area of 20.9km2, and the southern array boundary would be located 37.6km from shore with an area of	Project Description	Noted.	N

	128.6km2, with landfall envisaged on the Essex Coast between Frinton-on-Sea and Clacton. It would generate no less than 504MW of clean, low carbon, renewable electricity, with a design life of approximately 30 years.			
NFOWFS3_045_011_070 723	The design envelope and 'worst case parameters' for the key offshore components considered by the PEIR are summarised below: Offshore • Up to 72 x wind turbines, with each turbine spaced a minimum of 820 m apart (164m rotor diameter) & 1,685m apart (337m rotor diameter) • Maximum rotor diameter of 337m with a maximum blade tip height above mean high water of 397m • Each turbine to sit on top of a foundation comprising either mono-piles, mono-suction buckets, gravity-based systems/ structures or jackets on pin piles/ suction buckets/ gravity ballast legs • Offshore electrical infrastructure consisting of up to 228 km of high voltage array/ interconnector cables to transmit power between the turbines & the 2 x offshore substations, an interconnector between the array sections and export cables bringing the power to shore.	Project Description	Noted.	N

NFOWFS3_045_012_070 723	Onshore • Landfall (where 55 km of offshore export cables come to shore underground) would be on the coast between Clacton-on-Sea and Frinton-on-Sea, with the finalised location yet to be determined • Up to 4 x Transition Joint Bays (1 per export cable) – underground units where the offshore cable is jointed to the onshore cable • Onshore (underground) cables to transmit power to a new 400kV onshore substation (up to 8 ha in area with 15m high GIS building & 18 m high lightning masts) located within Tendring, Essex, followed by further transportation to a National Grid substation & then on to the national grid	Project Description	Noted.	N
NFOWFS3_045_013_070 723	Cable corridor (1.8m deep) to run approximately 22 km inland from Great Holland on a north-west alignment towards Little Bromley via Landermere, Tendring Green & Horsley Cross, crossing the Tendring & Holland Brooks, the A120 Trunk Road, B1035 (Frinton Road) along with other minor routes - cables to be laid in up to 16 x trenches within a working width of 60 – 110m Ancillary activities to facilitate the construction & operational phase of the Project, incorporating land for the construction areas & works, construction plant, machinery & equipment, site offices, welfare, storage, new accesses & access tracks – all project infrastructure to be installed within the Order Limits which would be defined for assessment in the forthcoming Environmental Statement (ES). For the purposes of the assessment, the operational lifetime of the project is assumed	Project Description	Noted.	N

	to be up to 30 years, and a decommissioning plan would be submitted at the appropriate time for approval by the regulatory regime in force at the time.				
NFOWFS3_045_014_070 723	A summary of the 'construction phase' activities is provided below. Construction Phase Summary The PEIR (Chapter 5 – Project Description) envisages up to a 5-year construction phase (including 1 year of pre-construction works), commencing in 2026 with completion in 2031 at which point the wind farm is expected to be operational. The implementation of NFOWP would involve major construction processes, incorporating complex and specialised activities and equipment working at offshore and onshore locations, including under floodlights during the hours of darkness and during periods of low lighting level within a range of weather conditions.	Project Description		Noted.	N
NFOWFS3_045_015_070 723	Offshore Construction Phase Summary Following the site survey stages the 'offshore work' would (in summary) incorporate seabed preparation, dredging, pile driving, pile drilling, rock installation for scour protection, erection of the main turbine, platform and substation structures, cable trenching and laying, cable crossings, materials and bulk	Project Description	Ground Conditions and Contamination	Noted.	N

					,
	flammable liquids handling and transportation on land and sea.				
NFOWFS3_045_016_070 723	A significant level (58,874,625 m3) of sandwave levelling to be undertaken with dredged material disposal to be undertaken at offshore locations. A range of construction vessels would be required, including jack-up barge vessels with excavators for excavations and cable laying, crane, rock bulk, foundation installation, scour, commissioning and accommodation vessels, tugs and feeders. A total of 101 vessels would generate 3,090 'movements' between the port and offshore site locations to implement the offshore construction works, with up to 35 x vessels in operation (and on site) simultaneously during the peak construction period. Helicopter access to the wind turbines (via a heli-hoist platform on top of each nacelle) may be required for construction purposes, and up to 100 'round trips' are envisaged.	Project Description	Ground Conditions and Contamination	Noted.	N
NFOWFS3_045_017_070 723	Onshore Construction Phase Summary At the landfall location (between Clacton-On-Sea and Frinton-on- Sea) a series of construction activities would be required, including (in summary) the installation of cables in beach and inter-tidal locations by non- displacement plough and drilling rigs. The principal activity associated with the onshore work concerns	Project Description		Noted.	N

	the construction of the 24km cable route, which would be 60m in width extending to 122m in width (243m wide where woodland/watercourse/road/utility constraints are present) where trenchless techniques are used, incorporating 10m wide access/ haul roads.				
NFOWFS3_045_018_070 723	The principal activities undertaken within each of the 4 - 5 x cable route sections are summarised below: • Site enabling works including - temporary fencing, upgrading/ installing new access points to the public highway (16 x access points) utility diversions, temporary drainage, vegetation clearance, establishment of up to 7 x site compounds, incorporating offices, welfare facilities, security, wheel wash, lighting & signage • Implementation works including – topsoil removal, haul road installation (22 x public highway/haul road crossings) trenchless duct installation beneath complex obstacles (major roads/railways/rivers), trench excavation/ backfilling, jointing pit installation, cable installation	Project Description		Noted.	Z
NFOWFS3_045_019_070 723	Significant quantities of materials (such as MOT Type 1, ashphalt, stone, concrete, sand & pipework etc) & waste (topsoil, native soil, drill fluid & perforated pipe etc) would arise as set out in table format within the PEIR. In addition, a 400kV onshore substation would be required, located within a zone east of Ardleigh & west of Little Bromley, comprising buildings, plant and equipment.	Project Description	Ground Conditions and Contamination	Noted.	N

NFOWFS3_045_020_070 723	The types of construction plant and equipment envisaged at this stage comprise – vibrating compactors, tarmac rollers, concrete mixers, cable pulling winches, angle grinders, pneumatic breakers, tarmac production plants, dump trucks, tracked excavators & lorries.	Project Description		Noted.	N
NFOWFS3_045_021_070 723	Core working hours for the 'onshore' construction phase would be 07:00 – 19:00 Monday to Saturday, with no activities undertaken where noise is audible beyond the project boundary on Sundays, bank/ public holidays, unless the following circumstances apply: • Where continuous periods of construction are required such as concrete pouring or directional drilling • For the delivery of abnormal loads which may cause congestion on the local road network, where the Highway Authority has been notified 72 hours in advance • Where works are being carried out in the marine environment & may be tidally restricted • As otherwise agreed with the Relevant Authorities.	Project Description		Noted.	N
NFOWFS3_045_022_070 723	As is usually the case for offshore activities (seaward of mean low water) 24 hours/day and 7 days/week working patters are envisaged. 2,030 peak annual UK on/ offshore jobs and 250 peak annual Essex/Suffolk on/offshore jobs are forecasted to arise during the construction phase, with an annual average of 730/ 80 jobs respectively (PEIR Chapter 31: Socio - economics, Table 31.34).	Project Description	Socio-economics	Noted.	N

NFOWFS3_045_023_070 723	Traffic Impacts & Highway Network Delay The PEIR (Chapter 27 Traffic & Transport, Table 27.29) indicates that 8 x highway links are expected to incur highway network (driver) delay as a result of construction phase road closures for up to 6 weeks as follows; • Little Clacton Road –12-minute delay via alternative route • Ardleigh Road – 6-minute delay via alternative route • Swan Road – 5-minute delay via alternative route • Damant's Farm Lane – 3-minute delay via alternative route • Golden Lane – 3-minute delay via alternative route • Spratts Lane – 3-minute delay via alternative route • Spratts Lane – 3-minute delay via alternative route • Barlon Road – 2-minute delay via alternative route • Wolves Hall Lane – 1-minute delay via alternative route.	Project Description	Traffic and Transport	The Applicant have made significant commitments to the use of trenchless technology to ensure that the main roads remain open. Section 27.4.3.2.1 of the ES (Chapter 27 Traffic and Transport (Volume I)) outlines that a total of 21 roads will be crossed by the Projects onshore cables and that of these roads, four minor roads could require a road closure with the remaining roads remaining open. Section 27.6.1.5 of the ES (Chapter 27 Traffic and Transport (Volume I)) identifies that delays from road closures would be no greater than three minutes and this is assessed as negligible. The matter has further been discussed with EEAST at an ETG meeting on the 26 March 2024 and consequently the OCTMP (Application ref: 7.16) also includes a commitment engaging with the emergency services and providing advanced notification of closures and diversion routes.	N
NFOWFS3_045_024_070 723	The methodology adopted by the PEIR indicates that the 'significance effect' of the delay on Little Clacton Road would be 'moderate adverse' with all other delays assessed as 'negligible'. Whilst this approach is designed to convey the severity of impact from an EIA perspective as assessed against the highway/ trip baseline, it would not be applicable to the effect upon EEAST's operations.	Project Description	Traffic and Transport		
NFOWFS3_045_025_070 723	From EEAST's perspective, any form of network delay which leads to a Category 1 (life threatening) call mean arrival time of >7 minutes, could have a significant adverse impact on a patient health event outcome. It would also constitute a failure to achieve mandated National Quality Requirements leading to EEAST being issued with a Contract	Traffic and Transport	Human Health		

NFOWFS3_045_026_070 723	Performance Notice which could ultimately lead to a financial penalty being applied. Any road closure/ delay associated with the Project also increases the probability of any additional unforeseen delay (encountered on the network) triggering a cumulative 7-minute delay overall. Both these EEAST outcomes would be akin to a 'Major Adverse' effect in EIA terms, requiring	Traffic and Transport	Human Health		
NFOWFS3_045_027_070 723	avoidance and/or mitigation, as detailed below. Similarly, the forecasted trip generation for construction phase impacts on the local road network in the vicinity of the NFOWP Project, is considered to be appreciable (and significant) from EEAST's perspective. 17 x links exceed the Guidelines for Environmental Assessment of Traffic (GEART) screening thresholds, with the following increases of particular note identified: • Link 4: Bentley Road from A120 to Little Bromley – 432 (1,457%) increase in HGV's per day • Link 17: Colchester Road south of the A120 – 62 (293%) increase in HGV's per day • Link 35: B1035 north of B1033 to Whitehall Lane – 62 (284%) increase in HGV's per day • Link 37: B1035 north of Whitehall Lane to Swan Road – 62 (284%)	Project Description		The Traffic Management Act 2004 places a Network Management Duty on the highway authority to "manage their road network' in a way that secures 'the expeditious movement of traffic" Section 27.4.3 of the ES (Chapter 27 Traffic and Transport (Volume I)) outlines an agreement with National Highways and Essex County Council in their role as Network Managers to ensure that the arrival and departure profile of North Falls traffic is managed, thereby ensuring the expeditious movement of all traffic (including emergency services). The matter has further been discussed with EEAST at an ETG meeting on the 26 March 2024 and consequently the Outline Code of Construction Practice (Application ref: 7.13) also includes a commitment to establishing a line of communication with EEAST and providing updates and detail on the Project (as required) to allow them to plan and manage their activities.	N
NFOWFS3_045_028_070 723	increase in HGV's per day. Whilst the EIA methodology assigns a 'negligible' (insignificant) effect to Links 4,17,35 and 37, the reduced network capacity (particularly if combined with a Project HGV breakdown or other incident) could contribute to a >7minute Category 1 Call mean	Traffic and Transport	Human Health		

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	arrival time - giving rise to a significant impact on EEAST's operations warranting mitigation.		
NFOWFS3_045_029_070 723	Construction Access & Haul Road Crossings The PEIR indicates that there would be 16 x construction accesses, along with 7 x Temporary Construction Compound locations requiring access to the road network. A banks person may be deployed to direct construction vehicles in and out of construction access points in association with other traffic management measures, as required.	Project Description	
NFOWFS3_045_030_070 723	22 x haul road crossings with entry/ exit points are also identified which would require safety measures to be employed such as: • Additional temporary signage to warn road users of heavy plant crossing the highway • Additional temporary traffic calming measures for highway users at the crossing point • Pedestrian arrangements at the crossing points • Road sweeping operations in the vicinity of the crossing points.	Project Description	
NFOWFS3_045_031_070 723	The 16 x proposed construction access points and 22 x haul road crossings with the associated traffic management measures are likely to lead to highway network delays. EEAST's operational standards & thresholds, which include Contract Performance Notice penalties in association with specified delays, are set out for information in Annex 2.	Traffic and Transport	

NFOWFS3_045_032_070	Artificial Indivisible Loads (AIL)	Traffic and	Section 27.4.3.1 of the ES (Chapter 27 Traffic and	N
723	It is noted that the construction of the onshore substation would	Transport	Transport (Volume I)) includes details of the approach to the consideration of abnormal loads.	
	require transportation of			
	components via Articulated Indivisible Loads (AIL's) which are		The matter has further been discussed with EEAST at an ETG meeting on the 26 March 2024 and	
	likely to lead to highway network		consequently the Outline Code of Construction	
	delays, including the use of police escort facilities as necessary.		Practice (document reference 7.13) also includes a commitment to notifying EEAST of the timing and	
NFOWFS3_045_033_070	The PEIR for the 5 Estuaries	Traffic and	routeing of any abnormal load movements.	
723	Windfarm Project forecasted 2-4	Transport		
	transformers on 20-24 axle frame trailers and 8-12 items of plant			
	(such as shunt reactors) to be delivered by AIL's.			
	Review of the NFOWP Traffic &			
	Transport Chapter and Transport Assessment within the PEIR does			
	not, however, seem to identify AIL			
	movements, and this area therefore ought to be assessed in			
	the forthcoming Environmental			
NFOWFS3_045_034_070	Statement. Major Accidents & Disasters	Human Health	Noted.	N
723	The PEIR (Chapter 5 – Project	Human Healm	Noted.	IN
	Description) incorporates a section dealing with the NFOWP response			
	to potential major accidents and			
	disasters. It states that offshore wind			
	developments have an intrinsically			
	low risk of causing a major accident, and wind turbines,			
	blades, rotors, towers & foundations have an excellent			
	safety record, with a low failure			
	rate, and are positioned offshore away from populated areas and			
	the public.			
	Hazards associated with unexploded ordnance (UXO)			
	would be managed by undertaking a UXO survey prior to			
	construction, to allow any identified			
	UXO to be avoided or cleared using controlled explosion			
	techniques.			

NFOWFS3_045_035_070 723	Buried cables onshore and offshore pose little risk to the public as the system is designed to detect faults and 'trip out' circuits automatically in the event of failure being detected. Whilst the risk of substation fires is historically low, the highest appropriate levels of fire protection and resilience would be specified to minimise fire risk. Lubricants, fuel and cleaning equipment would be stored in suitable facilities designed to meet the relevant regulations and policy guidance. NFOWP would enact minimum health, safety and environmental requirements on all suppliers, contractors and subcontractors, and ensure that all employees undergo necessary health and safety training.	Human Health	Noted.	N
NFOWFS3_045_036_070 723	Reference is also made to this area being covered within the PEIR as follows: • Chapter 15 – Shipping & Navigation which assesses risks to navigational safety as being tolerable & broadly acceptable • Chapter 21 – Water Resources which assesses flood risk impacts as negligible to minor adverse.	Project Description	Noted.	N
NFOWFS3_045_037_070 723	Whilst the above assessment concerning potential major accidents and disasters is noted, EEAST recommends that procedures to effectively manage construction phase accidents and incidents, both onshore and offshore, in liaison with EEAST and its health and blue light partners are implemented, as outlined in further detail in the 'Principal Areas of Concern' section below.	Human Health	Noted.	N

NFOWFS3_045_038_070 723	Human Health The PEIR (Chapter 28 – Human Health) provides a summary of consultation responses received in relation to human health to date, and signposts to specific topic areas within the PEIR which are also relevant to the determinants of human health incorporating the following chapters; • Chapter 9 – Marine Water & Sediment Quality • Chapter 19 – Ground Conditions & Contamination • Chapter 20 – Onshore Air Quality • Chapter 21 – Water Resources & Flood Risk • Chapter 26 – Noise & Vibration • Chapter 27 – Traffic & Transport • Chapter 31 – Socio-economics • Chapter 32 – Tourism & Recreation • Chapter 33 – Climate Change	Project Description	Traffic and transport effects of the Project (including driver delay to all vehicle users (including emergency services)) have been considered in Chapter 27 Traffic and Transport (Volume I) and in Section 28.6.1.5 of Chapter 28 (Human Health). Effects on local onshore infrastructure and services (housing and health) are considered in Chapter 31 Socio-economics (Volume I) and Chapter 28 Human Health (Volume I). Effects on health services are presented in Section 28.6.1.5 of Chapter 28.	N
NFOWFS3_045_039_070 723	Table 28.26 within Chapter 28 summarises the potential likely significant effects on human health, and considers these by phase as follows; • Construction phase - 'minor adverse' in terms of noise, air quality, physical activity & journey times/ reduced access, 'negligible' for ground/ water contamination effects & 'moderate beneficial' for employment	Human Health		
NFOWFS3_045_040_070 723	Operational phase – 'minor adverse' in terms of noise, 'no effect' from Electric & Magnetic Field (EMF) sources, & 'moderate beneficial' for employment & wider societal benefits	Noise and Vibration		
NFOWFS3_045_041_070 723	Decommissioning phase – not yet finalised & expected to be no greater than the construction phase effects	Human Health		

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NFOWFS3_045_042_070 723	No reference is made to EEAST's role as a health & blue light partner, or the baseline position and potential impacts arising on accident and emergency services and nonemergency patient transport services within the Project area.	Human Health		EEAST's role as a health & blue light partner is acknowledged: baseline data on EEAST activity is in Section 28.5.6 of Chapter 28 (Human Health) and the effects of the construction workforce are assessed in Section 28.6.1.5 of Chapter 28. Meetings have been held with EEAST (26 March 2024 and 28 May 2024). Discussions are ongoing with the intention of reaching a jointly agreed Statement of Common Ground.	N
NFOWFS3_045_043_070 723	The PEIR findings have been reviewed, however these documents would not (at this stage) provide for effective mitigation and management measures to address the impacts on EEAST summarised above, and below in the 'Principal Areas of Concern' section.	Human Health		Noted, and this ES chapter has been updated since PEIR to include further detail regarding assessment and mitigation measures identified since PEIR.	Z
NFOWFS3_045_044_070 723	Potential Impacts on EEAST Service Areas & Capacity Project Environmental & Social Effects Review of the NFOWP Preliminary Environmental Information Report and related documentation, indicates that the Project's potential impacts (effects) on EEAST's operational capacity, efficiency and resources (staff, vehicle fleet and estate assets) have not been baselined, sufficiently assessed or mitigated to date.	Socio-economic		EEAST's role as a health & blue light partner is acknowledged: baseline data on EEAST activity is in Section 28.5.6 of Chapter 28 (Human Health) and the effects of the construction workforce are assessed in Section 28.6.1.5 of Chapter 28.	N
NFOWFS3_045_045_070 723	EEAST is therefore keen to work with SSERWE to ensure this omission is addressed by further information being prepared to inform - either a topic in the Environmental Statement or in accompanying technical documentation, to provide the basis for a robust DCO Application for Examination.	Project Description		Meetings have been held with EEAST (26 March 2024 and 28 May 2024). This is discussed further in Section 3 of the Consultation Report (document referece 4.1). Discussions are ongoing with the intention of reaching a jointly agreed Statement of Common Ground.	N

NFOWFS3_045_046_070 723	In particular, EAST wishes to agree and secure suitable mitigation and management measures as part of the DCO Requirements and/ or via a Section 106 planning obligation (or Deed of Obligation) and have this position reflected within documentation to be submitted as part of the forthcoming DCO Application, and thereafter pursuant to a Statement of Common Ground in advance of the Examination.	Project Description	Meetings have been held with EEAST (26 March 2024 and 28 May 2024). This is discussed further in Section 3 of the Consultation Report (document referece 4.1). Discussions are ongoing with the intention of reaching a jointly agreed Statement of Common Ground.	N
NFOWFS3_045_047_070 723	EEAST's principal areas of interest and concern are summarised below. Information for Inclusion Within Scope of the Environmental Statement or Accompanying Documentation & Related Mitigation & Management Measures The principal areas of Project interest and concern which are likely to significantly impact on EEAST's operational capacity, efficiency and resources - requiring necessary and appropriate mitigation and management measures are outlined below, in light of the information and assumptions presented in the PEIR at this Stage 2 Consultation.	Socio-economic	Noted.	N
NFOWFS3_045_048_070 723	Highways, Traffic, Transport & Articulated Indivisible Loads (AIL's) It is evident that a major level of onshore construction works incorporating cable corridors, trenchless crossings, new highway access points, works compounds, heavy construction plant road crossings and haul roads, requiring road closures, route diversions and related traffic management measures - along	Traffic and Transport	Section 27.11 of the ES (Chapter 27 Traffic and Transport (Volume I)) outlines that with the application of mitigation measures (as required) residual traffic and transport impacts upon all road users would not be significant. These mitigation measures are captured within the OCTMP (document reference 7.16) which is secured by DCO Requirement. The Applicant therefore considers that a Section 106 planning obligation or Deed of Obligation is not required.	N

	with significant HGV (and an unspecified number of additional AIL) traffic movements are envisaged.			
NFOWFS3_045_049_070 723	This would take place as part of the extensive 4-5 year construction phase program, required to implement the North Falls Offshore Windfarm Project. Information to determine the effects arising from the construction phase of the Project and likely impact on EEAST's operational capacity, efficiency and resources (including the likely highway disruption and delay) is currently absent from the PEIR documentation and its proposed mitigation and management measures.	Socio-economic		
NFOWFS3_045_050_070 723	This information therefore needs to be presented and assessed, either as part of the Environmental Statement or in accompanying documentation, with any necessary mitigation and management measures secured and implemented through DCO Requirements, and/ or via a Section 106 planning obligation or Deed of Obligation, as part of any Development Consent Order approval.	Project Description		

NFOWFS3_045_051_070 723	Major Accidents & Disasters It is evident that a significant level and duration of construction phase work reliant on the use of sea- based construction vessels, helicopters, heavy lift plant and specialist marine based working platforms/ machinery/ equipment, producing noise, heat, vibration and dust (with work carried out on a 24 hour/ 7 day a week basis during potentially adverse weather conditions) is likely to present construction site hazards and dangers both at sea and on land.	Human Health	Noise and Vibration	For EIA purposes, a disaster is typically defined as a natural hazard (e.g. earthquake) or a manmade/external hazard (e.g. act of terrorism) with the potential to cause an event or situation that meets the definition of a major accident. The site selection process implemented by the Project avoided significant interactions with existing infrastructure through a combination of consultation, desk-based research, and surveys. In addition, the site selection and project design process have ensured that project infrastructure and construction methodologies avoid potential hazards or will be designed around them (for example coastal erosion, surface water flooding etc, see Table 34.3 in ES Chapter 34, Major Accidents and Disasters). In relation to workplace accidents and incidents described, as discussed in Section 34.5.2.7 of ES Chapter 34 Major Accidents and Disasters offshore wind has a good (and improving) health and safety record. Given the number of workers involved in construction (a peak of 471 (see Chapter 31 Socioeconomics, Volume I)) and safety record there is minimal risk of workplace accidents and reliance on local services (see also Table 28-5 in Chapter 28 Human Health, Volume I). As set out in the Outline Project Environmental Management Plan (OPEMP) (document reference 7.6), an offshore Emergency Response Co-Operation Plan (ERCOP) will be developed following discussions with relevant stakeholders. These will include risk assessments and designated evacuation plans for workers in the event of an incident. NFOW will ensure through its procurement process that all contractors will comply with the supplier Code of Conduct that will be put in place, as well	N
NFOWFS3_045_052_070 723	Working on sea platforms, coastal, cliff edge and uneven ground, with moving machinery lifting and transporting materials, and working at depth, including the potential for trench collapse, underlines the risks associated with the construction related activities – requiring both urgent and other medical interventions	Human Health		as them being required to comply with all health and safety legislation. Further details of Contractor requirements are set out in the OPEMP (document reference 7.6) and the Outline Code of Construction Practice (OCoCP) (document reference 7.13). The OCoCP includes a section on Local Community Liaison stating that a Stakeholder Communications Plan will be developed which will	

	and transport conveyance (including specialised airborne tasking/ conveyance) to be appropriately planned for and provided.		set out how effective and open communication with local residents, businesses, the local community and the emergency services that may be affected by the construction works will take place. ES Chapter 24 Traffic and Transport, Volume I	
NFOWFS3_045_053_070 723	Indeed, the Health & Safety Executive (HSE's) construction publications for Great Britain, indicate that work related incidents involving serious injury and fatalities, are statistically significantly higher for the construction industry as compared to the 'all industry' rate.	Human Health	includes consideration of severance, amenity and pedestrians delay impacts, road safety impacts, driver delay (capacity), driver delay (highway constraints), driver delay (road closures) and abnormal loads (special order vehicles), all of which have the potential to impact EEAST operations. Mitigation measures presented within the Outline Construction Traffic Management Plan (OCTMP) are deemed adequate and appropriate to mitigate likely significant effects on EEAST	
NFOWFS3_045_054_070 723	Information to determine the effect of the construction phase and its impact on EEAST's operational capacity, efficiency and resources is currently absent from the PEIR documentation, and its related mitigation and management measures, however. In the event of a construction phase accident, appropriate procedures would need to be put in place for emergency access, onsite triage, medical assessment and patient identification, stabilisation and transfer to an appropriate healthcare setting.	Project Description	operations and is secured via the draft DCO. Provisions set out in the Outline Construction Traffic Management Plan, the Outline Code of Construction Practice and (document reference 7.13) are adequately and appropriately secured via DCO requirement / DML condition and there is no need for a Section 106 planning obligation (or Deed of Obligation).	
NFOWFS3_045_055_070 723	The processes and procedures developed by SSERWE, and any outsourced construction organisations, should refer to legislation and technical guidance which places a duty on SSERWE to have its own response and medical mitigation to take the patient to a place of 'normal access' and handover to EEAST crews. EEAST would expect any trench collapse to fall under the confined space regulations and SSERWE, the construction company and/or contractor(s) should have access to a confined space trained team	Human Health		

	that could extricate a casualty safely.			
NFOWFS3_045_056_070 723	Plans and contingencies for facilitating emergency access, onsite triage, medical assessment, patient identification, stabilisation, clinical information, safe and efficient handover to EEAST responders, whilst sustaining operationally optimal attendance times (noting the likely delay factors above) which in urgent cases may require Helicopter Emergency Medical Services (HEMS) and/or Air-Sea Rescue access, is therefore considered to be necessary.	Human Health		
NFOWFS3_045_057_070 723	The incidence and impact of major accidents (and disasters) on EEAST and its HEMS partner operational capacity, efficiency and resources, including EEAST hazardous area response teams (HART - which may also require co-ordination and joint tasking with the Maritime & Coastguard Agency) needs to be presented and assessed, with any necessary mitigation and management measures secured and implemented through DCO Requirements, and/ or via a Section 106 planning obligation or Deed of Obligation, as part of any Development Consent Order approval.	Human Health	Project Description	

NFOWFS3_045_058_070 723 NFOWFS3_045_059_070 723	Population Increase, Health & Wellbeing It is evident that during the anticipated 4-5 year construction period, a significant number of construction workers are required to implement the onshore and offshore components of the Scheme. Information to determine the nature of the construction workforce, their home origin, health status, clinical dependencies, location of any temporary accommodation, which are factors likely to directly impact on both EEAST and its health partners (ICB) operational capacity, efficiency and resources, including its co-ordinated response with health and blue light partners, is currently insufficiently dealt with in the PEIR documentation. This information therefore needs to be presented and assessed as part of the Environmental Statement or accompanying documentation, with any necessary mitigation and management measures secured	Project Description Project Description	Chapter 31 Socio-economics (Volume I) states that the peak construction demand is for 471 workers, of whom 429 (91%) will be non-resident. Effects on local onshore infrastructure and services (housing and health) are considered in Chapter 31 Socio-economics (Volume I) and Chapter 28 Human Health (Volume I). Effects on health services are presented in Section 28.6.1.5 of Chapter 28. Section 27.11 of the ES (Chapter 27 Traffic and Transport (Volume I)) outlines that with the application of mitigation measures (as required) residual traffic and transport impacts upon all road users would not be significant. These mitigation measures are captured within the OCTMP (document reference 7.16). The Applicant therefore considers that a Section 106 planning obligation or Deed of Obligation is not required.	N
	necessary mitigation and management measures secured and implemented through DCO Requirements, and/ or via a Section 106 planning obligation or Deed of Obligation, as part of any Development Consent Order approval.			
NFOWFS3_045_060_070 723	Joint Working With EEAST, Health & Blue Light Partners Transport, Community Safety, Health & Wellbeing Working Group In the light of the above, EEAST recommend that appropriate Terms of Reference, Membership and a Communications Strategy for a Transport, Community Safety, Health and Wellbeing Working Group is established, as soon as	Project Description	Meetings have been held with EEAST (26 March 2024 and 28 May 2024). This is discussed further in Section 3 of the Consultation Report (document referece 4.1). Discussions are ongoing with the intention of reaching a jointly agreed Statement of Common Ground. Section 27.11 of the ES (Chapter 27 Traffic and Transport (Volume I)) outlines that with the	N

	practicable, and in advance of the Examination.		application of mitigation measures (as required) residual traffic and transport impacts upon all road users would not be significant. These mitigation measures are captured within the OCTMP (document reference 7.16). The Applicant therefore considers that a Section 106 planning obligation or Deed of Obligation is not required.	
NFOWFS3_045_061_070 723	This would help to inform and assist the management of relevant aspects of the Project requiring a coordinated response from 'health and blue light partners', incorporating representatives from EEAST, NHS Suffolk & North East Essex ICB, East Suffolk North Essex Foundation Trust, Essex Partnership University Trust, Essex Police, Essex Fire & Rescue Service, Essex & Herts Air Ambulance and HM Coastguard.	Project Description		
NFOWFS3_045_062_070 723	Concluding Points EEAST is an INTERESTED PARTY in this planning process, operating in close association with the Integrated Care Boards across the East of England, along with blue light partner organisations, such as Essex CC and Essex Police and Essex Fire & Rescue. EEAST welcomes the opportunity to respond to the Stage 2 (statutory) consultation for the North Falls Windfarm Project, and following review of the PEIR documentation raises Points of Concern, due to its omission to address EEAST's principal areas of interest and concern outlined above.	Introduction	Section 27.11 of the ES (Chapter 27 Traffic and Transport (Volume I)) outlines that with the application of mitigation measures (as required) residual traffic and transport impacts upon all road users would not be significant. These mitigation measures are captured within the OCTMP (document reference 7.16). The Applicant therefore considers that a Section 106 planning obligation or Deed of Obligation is not required.	Z

NFOWFS3_045_063_070 723	EEAST considers that the Project is likely to have a significant impact on its operational capacity, efficiency and resources (incorporating its staff, vehicle fleet and estate assets) which have not been baselined or sufficiently assessed in the PEIR and associated documentation to date.	Project Description	Socio-economics	Meetings have been held with EEAST (26 March 2024 and 28 May 2024). This is discussed further in Section 3 of the Consultation Report (document referece 4.1). Discussions are ongoing with the intention of reaching a jointly agreed Statement of Common Ground. Section 27.11 of the ES (Chapter 27 Traffic and Transport (Volume I)) outlines that with the application of mitigation measures (as required) residual traffic and transport impacts upon all road users would not be significant. These mitigation measures are captured within the OCTMP (document reference 7.16). The Applicant therefore considers that a Section 106 planning obligation or Deed of Obligation is not required.	N
NFOWFS3_045_064_070 723	The Project is therefore considered to adversely affect EEAST's ability to meet and deliver its targets and priorities (statutory duties) as a key healthcare and emergency services provider.	Project Description		This has been raised at meetings with EEAST (26 March 2024 and 28 May 2024). Discussions are ongoing with with the intention of reaching a jointly agreed Statement of Common Ground. Section 27.11 of the ES (Chapter 27 Traffic and Transport (Volume I)) outlines that with the application of mitigation measures (as required) residual traffic and transport impacts upon all road users would not be significant. These mitigation measures are captured within the OCTMP (document reference 7.16). The Applicant therefore considers that a Section 106 planning obligation or Deed of Obligation is not required. the intention of reaching a jointly agreed Statement of Common Ground.	N
NFOWFS3_045_065_070 723	Information including identified impacts arising from the development should therefore be presented and assessed, either as part of the Environmental Statement or in accompanying documentation, with necessary mitigation and management measures secured and implemented through DCO	Project Description		Effects on local onshore infrastructure and services (housing and health) are considered in Chapter 31 Socio-economics (Volume I) and Chapter 28 Human Health (Volume I). Effects on health services are presented in Section 28.6.1.5 of Chapter 28. Section 27.11 of the ES (Chapter 27 Traffic and Transport (Volume I)) outlines that with the application of mitigation measures (as required) residual traffic and transport impacts upon all road users would not be significant. These mitigation	N

				measures are captured within the OCTMP	
				(document reference 7.16). The Applicant therefore considers that a Section 106 planning obligation or Deed of Obligation is not required.	
NFOWF 723	S3_045_066_070	Requirements, and/ or via a Section 106 planning obligation or Deed of Obligation, as part of any Development Consent Order approval.	Project Description	NFOW has indicated to EEAST that provisions set out in the Outline Construction Traffic Management Plan, the Outline Code of Construction Practice and [document reference X] are adequately and appropriately secured via DCO requirement / DML condition so there is no need for a Section 106 planning obligation (or Deed of Obligation).	N
NFOWF 723	S3_045_067_070	It is recommended that an agreed approach is then reflected in a future Statement of Common Ground, to clarify the position reached and inform the Examination process.		Meetings have been held with EEAST on 26 March 2024 and 28 May 2024. This is discussed further in Section 3 of the Consultation Report (document referece 4.1). Discussions are ongoing with the intention of reaching a jointly agreed Statement of Common Ground.	N
NFOWF 723	S3_045_068_070	The measures ought to include a process to assist EEAST and its health and blue light partners to plan for and implement co-ordinated responses to construction phase (and any operational and decommissioning phase) Scheme impacts and incidents arising, to optimise patient outcomes.	Project Description	It is agreed with EEAST that NFOW will take steps to minimise the number of incidents generated by the Project through commitments to safe working practices set out with the CoCP. Draft text outlining the measures set out within the Outline CoCP are appropriate for minimising incidents generated by the Project as far as possible.	N

NFOWFS3_045_069_070 723	Early information exchange and liaison is therefore important to ensure an effective scheme design is developed, and robust EIA and related technical assessments are carried out, in order to inform the basis for mitigating and managing the impacts arising on EEAST and its health and blue light partners.	Project Description	Noted.	N
NFOWFS3_045_070_070 723	We trust this is of assistance and look forward to working with SSERWE in order to address the points raised.	Project Description	Thank you for this response.	N
NFOWFS3_045_071_070 723	ANNEX 1 EEAST KEY FACTS & SERVICE INFORMATION This section summarises EEAST's service remit, priorities, staff, vehicle fleet & estate assets, & coworking relationship with other healthcare & blue light partners & service targets Service Remit and Priorities The East of England Ambulance Service NHS Trust provide accident and emergency services and non-emergency patient transport services across the East of England. The Trust Headquarters is in Melbourn, Cambridgeshire and there are Ambulance Operations Centres (AOC) at each of the three locality offices in Bedford, Chelmsford and Norwich who receive over 1 million emergency calls from across the region each year, as well as 800,000+ calls for patients booking non-emergency transport.	Introduction	Noted.	N
NFOWFS3_045_072_070 723	The 999 service is part of the wider NHS system providing integrated patient care. Provision of 999 services is aligned closely with national and regional initiatives driven by: • Sustainability and Transformational Partnerships • Integrated Care System	Introduction	Noted.	N

	Integrated Urgent Care systems, i.e. NHS 111, Clinical Assessment Services, Urgent Treatment Centres, GP Out of Hours Services.			
NFOWFS3_045_073_070 723	Additionally, regional Ambulance Trusts may collaborate closely with other ambulance services, the wider emergency services or wider system providers to deliver appropriate patient care. To support the service transformation agenda, the key requirements are: • To deliver the core response and clinical outcome standards as defined by the Ambulance Response Programme • To fulfil statutory duties relating to emergency preparedness, resilience and response (EPRR) • Optimisation of call handling and appropriate responses through virtual alignment of NHS 111/999 and call/CAD transfer between ambulance services • Increase the percentage of lower acuity calls managed through "hear and treat" and "see and treat" options • Utilise a virtual delivery model to support wider workforce integration for paramedics, call handlers and specialist staff with local urgent care delivery models • Facilitate cross boundary working and the flexible use of ambulance service resources to support the development of regional Sustainability and Transformational Plans and Integrated Care Systems.	Introduction	Noted.	N

NFOWFS3_045_074_070 723	The 999 service is free for the public to call and is available 24 hours a day, 7 days a week, 365 days a year, to respond to the population with a personalised contact service when patients: • Require rapid transportation with life threatening illness/injury or emergencies - category 1 and 2 • Present with lower acuity urgent and less urgent conditions - category 3 and 4 requiring clinical interventions • Patients may be passed to 999 via other NHS health care systems, including NHS 111 • EEAST receives over 1 million emergency (999) calls per year and 800,000 calls for patients booking non-emergency transport.	Introduction	Noted.	N
NFOWFS3_045_075_070 723	EEAST also provides urgent and emergency responses to Healthcare Professionals requiring ambulance assistance, and interfacility transfers between hospitals and other healthcare settings, where patients require treatment at alternative sites to their current setting.	Introduction	Noted.	N
NFOWFS3_045_076_070 723	Non-Emergency Patient Transport Services (NEPTS) provide an essential lifeline for people unable to use public or other transport due to their medical condition. These much-needed journeys support patients who are: • Attending hospital outpatient clinics or other healthcare locations • Being admitted to or discharged from hospital wards • Needing life-saving treatments such as radiotherapy, chemotherapy, renal dialysis or DVT treatment.	Introduction	Noted.	N

NFOWFS3_045_077_070 723	Service Assets EEAST clinicians: • Emergency Care Support Workers • Emergency Medical Technicians • Paramedics • Specialist Paramedics • Critical Care Paramedics. Types and models of response: • Community First Responder (CFR) (volunteers) • Patient Transport Service (PTS) • Clinical See and Treat • Clinical Hear and Treat (telephone triage) • Early Intervention Team (EIT) • Rapid Response Vehicle (RRV) • Double Staff Ambulance (DSA) • Hazardous Area Response Team (HART) • Specialist Operations Response Team (SORT) • Helicopter Emergency Medical Service (HEMS) EEAST utilise 3 x HEMS aircrafts within the region. Ambulance Operations Centre (AOC) staff: • 999 Call Handlers • Emergency Medical Dispatchers • Tactical Operations Staff. EEAST support services staff	Introduction	Noted.	N
	Tactical Operations Staff. EEAST support services staff cover all other corporate and administrative functions across the region.			
NFOWFS3_045_078_070 723	Estates The Trust is rolling out a Hub and Spoke network with up to 18 hubs to provide regional premises for delivery of operational responses to calls, flow of ambulance preparation via the Make Ready function (cleaning and restocking of ambulances) and dispatch of ambulances to local spokes (reporting posts/response posts/standby locations). Support services such as workshop facilities, clinical engineering (medical equipment store and	Introduction	Noted.	N

	workshop), consumable product stores and support office accommodation are also provided from Hubs.			
NFOWFS3_045_079_070 723	Ambulance Station Central Reporting Post - A 24/7 - Permanent reporting base for staff and primary response location for one or more vehicles. Provision of staff facilities. Ambulance Station Response Post - A primary response location, which includes staff facilities but is not a reporting base for staff. Standby Location - Strategic locations where crews are placed to reach patients quickly. Facilities used by staff are provided on an informal basis only by agreement with the relevant landowner.	Introduction	Noted.	N
NFOWFS3_045_080_070 723	Ambulance Stations in Essex are currently located at: Basildon Clacton Harlow South Woodham Ferrers Billericay Colchester Harwich, Dovercourt Southend-On-Sea Braintree Greenstead, Colchester Loughton Stansted Great Notley, Braintree	Introduction	Noted.	N

NFOWFS3_045_081_070 723	Corringham Maldon Thurrock Grays Brentwood Dunmow Ongar Waltham Abbey Burnham on Crouch Epping Rayleigh Weeley Canvey Frinton Saffron Walden Wickford Chelmsford Halstead Shoeburyness Witham	Introduction	Noted.	N
NFOWFS3_045_082_070 723	Vehicle Fleet • 387 front line ambulances • 178 rapid response vehicles • 175 non-emergency ambulances (PTS and HCRTs vehicles) • 46 HART/major incident/resilience vehicles located at 2 x Hazardous Area Response Team (HART) bases with a number of specialist vehicle resources.	Introduction	Noted.	N
NFOWFS3_045_083_070 723	Workforce & Equipment Approximately 4,000 staff and 800+ volunteers across 120 sites. Each resource has equipment specific to the operational function of the vehicle and skill level of the staff.	Introduction	Noted.	N

NFOWFS3_045_084_070 723	Specialisms EEAST works collaboratively across our blue light partners and have joint working groups with Police and Fire Services across the region, working in partnership managing responses to incidents and undertaking joint exercises with our dedicated resources to prepare for specialist rescue, major incidents and mass casualty incidents.	Introduction	Noted.	N
NFOWFS3_045_085_070 723	EEAST is a Category 1 Responder under the Civil Contingencies Act, 2004, playing a key role in developing multi-agency plans against the county and national risk registers. EEAST also works closely with the Military, US Air Force, Royal Protection Service and the Port of Felixstowe Police, Fire and Ambulance services.	Introduction	Noted.	N
NFOWFS3_045_086_070 723	EEAST's Emergency Preparedness Resilience Response (EPRR) team lead on the Joint Emergency Services Interoperability Principles (JESIP) working in close partnership with all blue light agencies, the Coastguard and Local Authorities. Specialist resources work with the Police in counter terrorism and developing response plans in the event of a major incident. EEAST are an integral part of the locality's resilience response sitting on a number of safety advisory groups, east coast flood working groups and hospital emergency planning groups.	Introduction	Noted.	N

NFOWFS3_045_087_070 723	Co-working Relationship with other Blue-Light & Healthcare Partners EEAST is an integral part of the wider healthcare system working closely with the North Essex Integrated Care System (ICS) to deliver emergency and urgent care and are key stakeholders in supporting wider healthcare initiatives. Within Essex, EEAST work with the ICSs in delivering additional care pathways focusing on hospital admission avoidance, this is a partnership with the local acute providers and local authorities. EEAST operate Early Intervention Response vehicles and a Rapid Intervention Vehicle. These resources work collaboratively within the system to offer holistic care to patients whilst reducing pressure on Emergency Departments.	Introduction	Noted.	N
NFOWFS3_045_088_070 723	This is EEAST's response to the requirements of the NHS Long Term Plan, with the clear narrative that in order to bring the NHS into financial balance all NHS providers must find mechanisms to treat patients in the community and out of the most expensive care setting, which are acute hospitals. This not only saves the NHS critical funding, but it also improves patient outcomes.	Introduction	Noted.	Z
NFOWFS3_045_089_070 723	EPRR and Specialist Operations teams routinely train with other blue light agencies in preparedness for major incidents such as terrorist attacks and major incidents with statutory training obligations to respond to local and national incidents. In continuing to respond to the COVID-19 Pandemic, EEAST is working collaboratively with Private Ambulance providers, the Military,	Introduction	Noted.	N

	volunteer Ambulance Services (such as St John Ambulance and British Red Cross) and local Fire and Rescue Services, to increase its capacity and maintain service delivery to meet the additional demand.			
NFOWFS3_045_090_070 723	EEAST Service Targets All NHS organisations are required to report against a set of Core Quality Indicators (CQIs) relevant to their type of organisation. For ambulance trusts, both performance and clinical indicators are set as well as indicators relating to patient safety and experience. NHS organisations are also required to demonstrate their performance against these indicators to both their commissioners and Regulators (NHS England/Improvement).	Introduction	Noted.	N
NFOWFS3_045_091_070 723	It is important to note that EEAST is also measured on how quickly a patient is transported to an appropriate location for definitive care, often in time critical circumstances. Failure to deliver against these indicators will result in a Contract Performance Notice and could result in payment being withheld, as prescribed in NHS Standard Contract 20/21 General Conditions (Full Length) GC9 9.15	Introduction	Noted.	N

NFOWFS3_045_092_070	ANNEX 2	Human Health	Noted.	N
723	EEAST National Quality	riuman ritalli	INUIGU.	IV
720	Requirements 2023-24			
	Ambulance Service Response and			
	Handover Times			
	Ambulance Service Response			
	Times			
	National Quality Requirement			
	Threshold			
	Category 1 (life-threatening) calls			
	– proportion of calls resulting in a			
	response arriving within 15			
	minutes Operating standard that 90th			
	centile is no greater than 15			
	minutes			
	Category 1 (life-threatening) calls			
	- mean time taken for a response			
	to arrive			
	Mean is no greater than 7 minutes			
	Category 2 (emergency) calls –			
	proportion of calls resulting in an			
	appropriate response arriving			
	within 40 minutes Operating standard that 90th			
	centile is no greater than 40			
	minutes			
	Category 2 (emergency) calls –			
	mean time taken for an			
	appropriate response to arrive			
	Mean is no greater than 30			
	minutes			
	Category 3 (urgent) calls –			
	proportion of calls resulting in an			
	appropriate response arriving within 120 minutes			
	Operating standard that 90th			
	centile is no greater than 120			
	minutes			
	Category 4 (less non-urgent			
	"assess, treat, transport" calls only)			
	– proportion of calls resulting in an			
	appropriate response arriving			
	within 180 minutes Operating standard that 90th			
	centile is no greater than 180			
	minutes			

NFOWFS3_045_093_070 723	For All Ambulance Service Response Times Indicators: Method of Measurement: See AQI System Indicator Specification at: https://www.england.nhs.uk/statisti cs/statistical- workareas/ambulance-quality- indicators/ Timing of Application of Consequence Quarterly for all indicators	Introduction	Noted.	N
NFOWFS3_045_094_070 723	Ambulance Service Handover Times National Quality Requirement Threshold Following handover between ambulance and A+E, ambulance crew should be ready to accept new calls within 15 minutes and no longer than 30 minutes >0 Guidance definition: See Contract Technical Guidance Appendix 2 at https://www.england.nhs.uk/nhssta ndard-contract/ Timing of Application of Consequence Ongoing	Introduction	Noted.	N
NFOWFS3_046_001_290 623	Hi Sue I'm at a bit off a loss as i thought we would be engaging through the CFWG?	N/A	Consultation was undertaken with the Harwich Harbour Fishermans Association (HHFA). The HHFA provided an overview of members fishing grounds (see Figure 14.12 HHFA Fishing Grounds	N
NFOWFS3_046_002_290 623	Can you send me the link for Harwich Harbour Fishermens Association to formally object on the proposal asap and well before the indicated timescale. Our main initial concern is failure to engage with the local fishing community on a regular basis and instead of consultation, negotiation, working together RWE decided to threaten some fishers legally, this is outside what we have experienced with other developers within our working areas, NF is sadly the first!	Commercial Fisheries	from Consultation, document reference 3.2.10). Engagement has also been undertaken via the CFWG that has been established by the Project. The consultation undertaken has been summarised in Table 14.2 in Chapter 14 of the ES (Commercial Fisheries).	

NFOWFS3_046_003_290 623	RWE North Fall have a lot to learn from other developers and I suggest they make contact with the fishing community including HHFA asap to try and establish a reasonable and constructive approach to your proposed development.	Commercial Fisheries		
NFOWFS3_046_004_290 623	My dealings with your representatives and FLO has fallen well below an acceptable level and doesn't look good for the future, the expected co existence has failed to date and may indicates it will be RWE approach for the future, not good! I am alway available to discuss the way forward but that will not be through an appointed FLO but directly with RWE representatives as others developers have. I await your response. Regards Thervor	N/A		
NFOWFS3_047_001_020 723	Hi Thanks for response however my comments are still current based on historic conduct of your team up to date. Was it not you that threatened fishers with a legal injunction, which was a first, which caused so much stress when all they wanted to do was go about their legal activities? Hopefully that will change in the future but only time will tell! Regards Trevor Secretary HHFA	Commercial Fisheries		

Shipping and Navigation Thanks for sight of this email and for the opportunity to respond to the Statutory consultation. I have now had an opportunity to look at the shipping and navigation chapters of the PEIR and the PEIR addresses these point the RYA sets out in it position on offshore wind energy. The two main issues for the Rya are operational safety zones and depth over chart daturn as the cable come ashore. In this context. The RYA is content to note that there are no plans to apply for operational safety zones other than those for construction, major maintenance and decommissioning and that at this stage the Applicant will also be MCN 654 compliant including in terms of underkeel clearance provisions i.e., depth will not be reduced by more than 5% unless otherwise agreed with the MCA. Consultation has been undertaken (and is ongoing) with HHA and PLA including via the Sun Kuser Cable corridor including in relation to the offshore cable corridor including in re				
	Thanks for sight of this email and for the opportunity to respond to the Statutory consultation. I have now had an opportunity to look at the shipping and navigation chapters of the PEIR and the PEIR addresses those point the RYA sets out in it position on offshore wind energy. The two main issues for the Rya are operational safety zones and depth over chart datum as the cable come ashore. In this context. The RYA is content to note that there are no plans to apply for operational safety zones other than those for construction, major maintenance and decommissioning and that at this stage the Applicant will also be MGN 654 compliant including in terms of underkeel clearance provisions i.e., depth will not be reduced by more than 5% unless otherwise agreed with the MCA. Consultation has been undertaken (and is ongoing) with HHA and PLA including via the Sunk User Group in relation to the offshore cable corridor including in relation to underkeel clearance. Please use me as the RYA point of contact for this project.		as per Section 15.3.3 of ES Chapter 15 (Shipping and Navigation). This will include the provisions on underkeel clearance i.e., depth will not be reduced by more than 5% unless otherwise agreed with the MCA. An assessment of underkeel clearance has	N

Consultee reference	Summary of comments	Code / theme	Code / theme	Applicant's response	Project change (Y/N)
NFOWFS3_049_001_040723	Dear Tom, Statutory Consultation under Section 42 of the Planning Act 2008 and Regulation 13 of Infrastructure Planning (Environmental Impact Assessment) Regulations 2017. Thank you for your consultation dated 15 May 2023 requesting our advice on the Preliminary Environmental Information Report (PEIR) submitted in support of the North Falls Offshore Wind Farm Project. Natural England are content to provide comments on the PEIR, however this is without prejudice to any comments we may wish to make in light of further submissions or on the presentation of additional information. The following PEIR chapters and other reports have been reviewed: Chapter 1 Introduction Chapter 4 Site Selection and Assessment of Alternatives Chapter 5 Project Description Chapter 6 EIA Methodology Chapter 8 Marine Geology, Oceanography and Physical Processes Chapter 10 Benthic and Intertidal Ecology Chapter 11 Fish and Shellfish Ecology Chapter 12 Marine Mammals Chapter 13 Offshore Ornithology Chapter 23 Onshore Ecology Chapter 24 Onshore Ecology Chapter 29 Seascape, Landscape and Visual Impact Assessment (SLVIA) Chapter 30 Landscape and Visual Impact Assessment (LVIA) Habitats Regulations Assessment Marine Conservation Zone Assessment Section 48 Notice	Introduction		Noted	N
NFOWFS3_049_002_040723	Overview Comments Natural England's Remit Natural England is a non-departmental public body. Our statutory purpose is to ensure that the natural environment is conserved, enhanced, and managed for the benefit of present and future generations, thereby contributing to sustainable development. Natural England's remit extends out to 12nm. Pursuant to an authorisation made on the 9th December 2013 by the JNCC under paragraph 17(c) of Schedule 4 to the NERC Act 2006, Natural England is also authorised to exercise the JNCC's functions as a statutory	Introduction		Noted	N

	consultee in respect of applications for offshore renewable energy installations in offshore waters (12-200nm) adjacent to England.			
NFOWFS3_049_003_040723	Evidence Plan Process (EPP) The development consent process for Nationally Significant Infrastructure Projects (NSIPs) is intended to be a frontloaded process, in which proposals are fully scoped, and refined prior to application submission. We consider the PEIR consultation to be a significant milestone in the NSIP process. At this stage, we would expect to be in a position to agree with the supporting evidence, the methodologies used to assess and determine significance of potential impacts, and to have identified the key issues. Going forwards, this would enable discussion and consideration of those key issues, identification of additional data requirements, and identification and scoping out of potential avoidance/mitigation measures and/or Measures of Equivalent Environmental Benefit (MEEB) during the remainder of the Evidence Plan Process (EPP). Ultimately, we recognise the importance of the pre-application phase of the consenting regime and welcome the opportunity to engage as much as possible at this stage. As such we seek to make this process as effective as possible. Our advice on the North Falls EPP (30 April 2021), was that the EPP can help reduce risk in the application, avoid delays, and reduce effort needed during the highly time-pressured Examination process. We also highlighted recent decisions by PINS and BEIS to extend Examinations and/or the Determination phase due to insufficient issue resolution. Whilst we acknowledge that some survey data are to be presented in the Environmental Statement (ES), we are concerned that there may not be sufficient time for these results to be fully considered and assessed prior to the anticipated application submission. We would, therefore, encourage the Project to use the EPP via post-PEIR ETGs to discuss outstanding issues, additional data requirements, and the assessment of impacts and levels of significance, prior to submission. Natural England considers that a critical next step within the EPP is for a steering group meeting to be convened to discuss, a	Policy and Ledgislative Context	Noted	N N

	subsequent next steps and processes required to resolve outstanding issues in order to successfully enter the application phase We also recommend that a Statement of Common Ground (SoCG) is started by the Project early within the EPP, in order to accurately catalogue all areas of agreement for the project and highlight any areas of disagreement. The ETG meeting minutes and Agreement/Disagreement log have been successfully used by other projects as the foundation for the SoCG.		

NFOWFS3_049_004_040723	Best Practice Advice for Offshore Wind Natural England has produced a series of documents to provide Environmental Assessments: Best Practice Advice for Evidence and Data Standards for offshore wind farm development in English inshore and offshore waters. The advice is provided in a series of documents which range from baseline characterisation surveys and pre-application engagement, through to expectations at application and post-consent monitoring. The project is divided into four phases: Baseline characterisation surveys Pre-application engagement and the evidence plan process Data and evidence expectations at examination Post-consent monitoring and other environmental requirements. The above link also provides access the Nature Conservation Considerations and Environmental Best Practice for Subsea Cables for English Inshore and UK Offshore Waters. This project provides NaturalEngland and JNCCs joint environmental best practice advice for subsea cable projects in English inshore and UK offshore waters. It is the expectation that developers follow our Best Practice through the application and consenting process. As such our advice and recommendations to the PEIR are framed around this advice. If you have any issues using SharePoint Online, please contact the site owners or contact: Natural England has also produced terrestrial guidance 'Developers: get environmental advice on your planning proposals' which is also relevant to the onshore transmission assets for offshore windfarms please follow the links to our standard advice.	Policy and Ledgislative Context	Technical Consultation	Noted	N
NFOWFS3_049_005_040723	Natural England's Structure/Framework for Attributing Risk The comments provided within this letter and its Annexes have been colour coded using the structure/framework as specified in the risk table in Appendix I of this letter. In this letter, the coloured headings are coded based on the highest risk associated with the topic in question. Natural England would like to highlight that at this stage all comments highlighted as yellow, amber, or red need to be addressed, with the potential for these issues to become more significant if not resolved at application	Introduction		Noted	N

	(Appendix 1 provides detailed explanations of the coloured risk ratings).				
NFOWFS3_049_006_040723	Impacts on the Natural Environment – Natural England's Key Concerns Impacts on Outer Thames Estuary SPA Red Throated Diver Natural England's position is that an Adverse Effect on Integrity (AEoI) is arising on the Outer Thames Estuary Special Protection Area (OTE SPA) red throated diver (RTD) due to displacement impacts from existing and consented Offshore Wind Farm (OWF). Any further displacement would, therefore, be considered additional to the in-combination AEoI. The evidence base strongly suggests that the Project alone will exert a displacement effect on RTD in the OTE SPA. We advise that the western boundary of the North Falls southern array would need to be moved at least 10km from the SPA to avoid either a project alone or in-combination AEoI for RTD. We would recommend you review the application and decision documentation for the East Anglia One North and Two OWFs, as the decisions by the Secretary of State (SoS) on these proposals are particularly relevant.	Onshore Ornithology	Site Selection and Assessment of Alternatives	Red throated diver from the Outer Thames Estuary area assessed in the Report to Inform Appropriate Assessment Part 4 Offshore Ornithology (Document Reference: 7.1.4). A without prejudice derogation case is provided for this species (Habitats Regulations Derogation Provision of Evidence (Document Reference: 7.2), including without prejudice compensatory measures which are described in Appendix 3 Red Throated Diver Compensation Document (7.2.3).	Z
NFOWFS3_049_007_040723	Benthic & Intertidal Ecology/Measures of Equivalent Environmental Benefit Natural England advises that every effort should be made to adopt the Mitigation Hierarchy before consideration of Measures of Equivalent Environmental Benefit (MEEB). Currently, we cannot find any justification in the PEIR documentation for the placement of North Falls infrastructure within the south array within the boundary of Kentish Knock East Marine Conservation Zone (MCZ). Consequently, we strongly encourage the Project to avoid the placement of infrastructure in this MCZ. We are also unable to agree with the conclusions of the MCZ Assessment (MCZA) and related documents without the necessary evidence to support the conclusions drawn. We believe that further benthic mitigation measures should be fully explored within the Application. Without the adoption of additional mitigation measures for MCZ impacts, Natural England advises that MEEB are required. Our advice remains unchanged since we provided feedback to the MEEB Expert Topic Group (ETG).	Benthic and Intertidal Ecology	Site Selection and Assessment of Alternatives	The array area has been reduced in size and no longer overlaps the Kentish Knock East MCZ. Therefore, there will be no infrastructure placed on the seabed within the MCZ. This has been discussed with the Seabed ETG and agreed that provided there is no infrastructure in the MCZ, the conservation objectives will not be hindered and MEEB will not require further consideration.	Y

NFOWFS3_049_008_040723	Marine Processes We are concerned that the baseline is currently insufficient to inform the impact assessment. The reliance on old hydrodynamic, wave and sediment transport data from the existing adjacent operational Greater Gabbard and Galloper Offshore Wind Farms (OWFs) to characterise prevailing conditions at North Falls, needs to be further justified in order to demonstrate applicability to North Falls. The physical environment across the North Falls south array, in particular, differs markedly from those across the Greater Gabbard array areas and Galloper north array area. Moreover, Galloper and Greater Gabbard now form part of the baseline for North Falls. Therefore, given the importance of establishing a robust baseline to inform the impact assessment, not only for the project alone, but also in combination, we advise carrying out an additional assessment to verify the suitability of the existing datasets as analogues, and calibrate them, for the prevailing conditions at North Falls.	Marine Geology Oceanography and Physical Processes	Updated baseline information on tidal currents, waves and sediments that are bespoke to the Project is provided in Section 8.5 of Chapter 8 Marine Geology, Oceanography and Physical Processes.	N
NFOWFS3_049_009_040723	Marine Mammals We would like to see further justification and rationale for the worst-case scenario (WCS) for use of Acoustic Deterrent Devices. We also note that the Marine Mammal Mitigation Protocol (MMMP) has not yet been drafted, therefore, we would wish to be consulted on this prior to it being included in the Environmental Statement (ES). In the submitted ES, we also advise that consideration should be given to the total number of days of piling for all offshore wind farm projects, not just the number of days piling for North Falls alone.	Marine Mammals	The ES and HRA has been updated to include the required ADD duration to cover PTS (cumulative) ranges, based on current underwater noise modelling results. Further information on ADD durations is provided within the Outline MMMP (document reference 7.7). Natural England have been consulted on theThe Outline MMMP, which is submitted as part of the DCO Application (document reference 7.7). The in-combination assessment for the Southern North Sea SAC have been updated to take account of the total days of activity with the relevant season, rather than just the days that overlap with North Falls (RIAA Section 6.2.3.4.1, document reference 7.1.1).	N

NFOWFS3_049_010_040723	Fish & Shellfish Ecology We advise that it is important to establish a sound baseline, using the best available evidence for herring and sand eel,	Fish and Shellfish Ecology	Noted.	N
	upon which to base the assessment of impacts. This includes an assessment of impacts on prey availability for red throated diver. Furthermore, it is essential that limitations and uncertainties regarding the datasets used should be clearly laid out. We also concur with Cefas, that a multi-layered mapping approach to sand eel and herring, and a heat map of the International Herring Larvae Surveys would be beneficial in the ES. Natural England's comments on fish and shellfish ecology should be considered alongside those of Cefas, where they are not features of designated sites or a prey species associated with the feature of a designated site.			
NFOWFS3_049_011_040723	Seascape and Landscape Visual Impact Assessment We advise that the North Falls OWF has the potential to cause significant adverse impacts on the special qualities of the Suffolk Coast and Heaths Area of Outstanding Natural Beauty (SCHAONB) and Suffolk Heritage Coast (SHC). We advise that these are significant for the purposes of EIA and, as a result of these significant adverse impacts, further harm may occur to the natural beauty of the SCHAONB and special character of the SHC. We also have outstanding concerns regarding the evidence used to assess (a) potential harm to the SCHAONB and SHC due to the presence of North Falls OWF (particularly the North Array) area, and (b) the worst-case maximum turbine height scenario. Both of which introduce uncertainty to the assessment of impacts to SCHAONB and SHC. We also disagree that the Project will not have significant cumulative impacts on the SCHAONB and SHC. Therefore, to help achieve good design, Natural England advises that to move the design towards a more acceptable project in terms of SLVIA impacts, the Applicant should consider principles to exclude development in the northern array area and commit to using the smaller 310m turbines in the southern array.	Seascape and Landscape Visual Impact Assessment	The array area for the DCO application has taken on board design comments received in response to PEIR, through the removal of the northern array of turbines, the refinement of the former southern array, and the reduction in turbine tip height. A number of turbine options are under consideration, with maximum tip heights between 280.39m and 381.39m above Lowest Astronomical Tide (LAT). Further information on changes in the array area between PEIR and DCO application is provided in Section 29.3.1 and ES Chapter 4 Site Selection and Assessment of Alternatives (Volume I). An assessment of cumulative effects is provided in Section 29.6 and 29.7 of ES Chapter 29 Seascape, Landscape and Visual Impact Assessment	Y

NFOWFS3_049_012_040723	Onshore Ecology We advise that a complete set of ecological surveys should be carried out, according to our standing advice and industry standard guidance. For Hamford Water SPA, we would wish to see 24 months of ornithology data collected for functionally linked land (FLL). Survey results should be provided within the ES. Furthermore, potential impacts identified following the ecological surveys, will need to be fully assessed and suitable mitigation provided, where necessary. We also advise that, depending on the survey results, the requirement to submit a draft protected species licence application may be required. Natural England's Wildlife Licensing team should be consulted on this matter. We also advise that Horizontal Directional Drilling (HDD) exit pits and associated operations should not be located within, or immediately adjacent to, Holland Haven Marshes Site of Special Scientific Interest (SSSI). Survey data should be used to inform the siting of the onshore works compound, minimising environmental damage and disturbance to flora and fauna as much as possible within the SSSI. Appropriate mitigation measures should be identified to avoid/minimise disturbance arising from impacts due to noise, vibration, lighting, hydrological effects, and drill fluid contamination.	Onshore Ecology		Impacts relating to ornithology are set out in Chapter 24 Onshore Ornithology. Potential impacts identified during the ecology surveys as well as additional mitigation are assessed in Section 23.6 of Chapter 23, Onshore Ecology. Further mitigation measures are set out in the OLEMS (document reference 7.14). Embedded mitigation is summarised in Section 23.3.3 of Chapter 23.	Y
NFOWFS3_049_013_040723	Landscape and Visual Impact Assessment (LVIA) We have concluded that, at this stage, the risk of significant adverse impacts occurring within both the Dedham Vale AONB and SCHAONB from the North Falls OWF substation delivered in isolation (of other projects), is low. However, we are conscious that there is the potential for co-location of the North Falls onshore substation with those of Five Estuaries OWF and the National Grid East Anglia Green project. Whilst there is a lack of information at present to enable us to carry out a fully informed assessment of potential cumulative landscape and visual impacts; we advise that as more details become available regarding these other projects, this should be reflected in the impact assessment presented in the ES. Furthermore, as advised above, opportunities should be sought to work collaboratively with these (and any other relevant) plans/projects, to minimise impacts and to futureproof the Application through Examination.	Landscape and Visual Impact Assessment	Site Selection and Assessment of Alternatives	Noted.	N

NFOWFS3_049_014_040723	Approach to EIA Methodology Natural England notes that the approach to the EIA assessment is proposed to align with other OWF Nationally Significant Infrastructure Projects (NSIPs). This matrix approach has been used throughout Environmental Statements (ESs) to date to support the assessment of the magnitude and significance of impacts. Natural England notes numerous instances where significance has been presented as a range (i.e., slight, moderate, or large) and it is nearly always the lower value that has been taken forward. In the absence of evidence to support the use of the lower value in a range, Natural England's view is that the higher value should always be assessed in order to ensure that impacts on features haven't been incorrectly screened out of further assessment. This is in line with the principles of the Rochdale envelope approach.	EIA Methodology		Noted.	N
NFOWFS3_049_015_040723	Cumulative Effects We note that the preliminary Environmental Impact Assessment (EIA) presented in this PEIR is based on Option 1 (onshore grid connection within Tendring Peninsula for the project alone), because this is considered the worst-case scenario (WCS) for construction. The effects of Option 2 (onshore grid connection, sharing an onshore cable route with another project), are considered the same as those assessed for Option 1. Whilst impacts due to Option 3 (offshore connection supplied by a third party), would potentially be reduced as they primarily relate to the offshore arrays. However, currently the information available is insufficient to allow full consideration and assessment of the relative environmental impacts of these grid connection options, or cumulative impacts with other planned projects. Moreover, it is important that the maximum design scenario (MDS) for shared and separate onshore and offshore infrastructure, including cable corridors, arrays, landfall, and substations, are provided and their associated impacts on sensitive receptors and designated sites, assessed.	EIA Methodology	Site Selection and Assessment of Alternatives	Noted.	N

NFOWFS3_049_016_040723	Taking into consideration the outcomes of the Offshore Transmission Network Review (OTNR) Natural England's preference would be for a shared onshore corridor between North Falls and Five Estuaries OWF projects. This would minimise impacts at the landfall and along the onshore cable route and reduce disruption to protected sites and species. The potential for the first project to install the ducts for the second project should be considered within the application and draft Development Consent Order, to minimise impacts and disturbance. We also note within the Dogger Bank South PEIR that there is a proposal for the DBS East and West cables to be bundled together, irrespective of the build out scenario and project developer. This is something we would also anticipate the Application considering as part of embedded project design mitigation options.	Site Selection and Assessment of Alternatives	Onshore Ecology	The grid connection options considered in the ES are outlined below: Option 1: Onshore electrical connection at a national grid connection point within the Tendring peninsula of Essex, with a project alone onshore cable route and onshore substation infrastructure. Option 2: Onshore electrical connection at a national grid connection point within the Tendring peninsula of Essex, sharing an onshore cable route but with separate onshore export cables, one project (either North Falls or Five Estuaries) installing cable ducting for the second project and project alone onshore substation infrastructure. Option 3: Offshore electrical connection, supplied by a third party. Option 2 has been selected for assessment within this chapter (as a worst case scenario). It is worth noting that the location of the onshore cable route for North Falls has been designed in collaboration with Five Estuaries, regardless of whether or not the first project installs the ducts for the second project (as set out in Option 2 above). Realistic worst case scenario parameters (for Option 2) for the construction of the onshore cable route are considered in Table 22.2 of Chapter 22 (Land Use and Agriculture).	N N

			 in Section 22.2.2 of Chanter 22	
			in Section 22.3.3 of Chapter 22.	
			The potential effects of the first project installing the ducts for the second project are considered in Section 22.6 of Chapter 22.	
NFOWFS3_049_017_040723	Natural England note that the area where the North Falls project is proposed is busy and constantly evolving with many new proposals and Applications in development. We therefore advise that the project keeps the list of relevant incombination projects regularly updated as it progresses to the submitted ES stage, and seeks to gain information on upcoming projects from other industries, including the aggregates industry.	Technical Consultation	Noted.	N
	For detailed advice please refer to Annexes 1-8 provided with this letter. If you have any queries relating to the content of this letter, please contact me using the details provided below. Yours sincerely,			

NFOWFS3_049_018_040723	Appendix 1 The following Framework has been used in Natural England's advice to attribute risk to the project:		echnical Consultation		Noted.	N	
	Structure / Framework Risk	•					
	Purple Note for the developer.						
	Red Natural England considers that unless these issues are resolved it will have to advise that (in relation to any one of them, and as appropriate) it is not possible to ascertain beyond reasonable scientific doubt that the project will not affect the integrity of an SAC/SPA/Ramsar and/or significantly hinder the conservation objectives of an MCZ and/or damage or destroy the interest features of a SSSI and/or comply fully with the Environmental impact Assessment requirements. Addressing these concerns may require the following: 1. new baseline or survey data; and/or 2. significant revisions to baseline characterisation and/or impact modelling and/or 3. significant design changes; and/or 4. significant feels that issues given Red status are so complex, or require the provision of so much outstanding information, that they are unlikely to be resolved during the Examination, and respectfully suggests that they be addressed beforehand.						
	Amber Natural England does not agree with the developer's position or approach and consider that this could make a material difference to the outcome of the decision-making process for this project.						
	Vellow Natural England doesn't agree with the developer's position or approach. We would ideally like this to be addressed but are satisfied that for this particular project it is unlikely to make a material difference to our advice or the outcome of the decision-making process. However, we reserve the right to revise our opinion should further evidence be presented. It should be noted by interested parties that just because these issues/comments are not raised as significant concerns in this instance, it should not be understood or inferred that Natural England would be of the same view in other cases or circumstances.						
	Green Natural England is in broad agreement with the developer's approach and has no significant outstanding concerns. As above, we reserve the right to revise our opinion should new evidence be presented.						

NFOWFS3_049_019_040723	Annex 1 Marine Geology, Oceanography and Physical Processes In formulating these comments, the following documents have been considered: • Chapter 1 Introduction • Chapter 2 Need for the Project • Chapter 4 Site Selection and Assessment of Alternatives • Chapter 5 Project Description • Chapter 6 EIA Methodology • Chapter 7 Technical Consultation • Chapter 8 Marine Geology Oceanography and Physical Processes • Chapter 18 Infrastructure and Other Users • Schedule of Mitigation 1. Natural England's Advice and Recommendations A summary of Natural England's advice in relation to Marine Geology, Oceanography and Physical Processes is set out in Table 1. Our key concerns along with recommendations are presented in further detail in Table 2.	Marine Geology Oceanography and Physical Processes	Noted. N	
NFOWFS3_049_020_040723	Table 1 Summary of Key Issues - Marine Geology, Oceanography and Physical Processes Recommendations to Re	Marine Geology Oceanography and Physical Processes	1 - Numerical modelling of waves has now been completed for potential operational impacts due to the presence of the foundation structures. The assessment of tidal currents and suspended sediment concentration (SSC) remain conceptual, supported by an improved baseline presented in Section 8.5. This is because the use of numerical modelling for hydrodynamics and sediment dispersion is disproportionate to the potential effect that would occur. The assessment of impacts to the tidal regime and wave regime are presented in Section 8.6.3.1 and Section 8.6.3.2 of Chapter 8 (Marine Geology, Oceanography and Physical Processes), respectively. 2 - Updated baseline information	

Geology Temporal features, Committed Production, Mark In Manual Committed Committed Production, Mark In Manual Committed Production, Mark In Manual Committed Production, Mark In Manual Committed Production, Committee Pro	FOWFS3_049_021_040723	ablo 2 Matural England	's Key Actrico an	d Recommunications ~ Marine Geology, O	ceanography and Physical Processes.	Marine	sediments that are bespoke to the Project is provided in Section 8.5 of Chapter 8.	Y
Recommendation Reco	1 OVVI 33_049_021_040723	Natural England & Key	Natural Englan					'
Project Description Project Description			NE FEIR	Comment	Recommendation Risk (RAG)			
Processes Project Description Society Processes	12		Usert Owner 4.5	road Descriptor Chapes # FIA Metuul-1 Y	Nacion & Marine Gericos - Oceanocantro and Program			
The propest casign is creatly defined. Natural Engineers Position on Very Case Science of Common Scie	0	Processes			The state of the s		in Table 8.2 of Chapter 8	
Comment Comm			CE -		The Bad Championers Street #50		(Marine Geology, Oceanography	
Name of Common Name			Comme	fowever, tandfat is still to be refried	report the Letung langual genitor			
### The potential sandwave	76	Natural England's Position on World Case Sciencio	5 General Comme	We are coment with the Worst-Case Scenario (WCS) presented for project				
Support No. 1 Table Support No. 1 Table Support No. 1 Table Support Support No. 1 Table Support			g. Taple	design but not the assessment of impacts UKO designance, the any graphed run, and boulder recentance maximum decign scenario (ADS) parameters have not lieted included in the more of resistance WGS.	preparation advised will need to consider UXO dissurance, Left-by grapment in units poulder clearance, inclusing area of respect (sauste and receiving flocalitats for boulders). and any assumptions regarding memoria.		levelling requirements along the export cable and offshore array	
			5.0.4 1 & Table	8 The entire lesign of the orbitorie export cable portrier and a dirray and interpronicipits cables (array areas). This equated to a total send-wave classificial volume of a 59 million of virtual is a significant volume. We evolum as you that the is no coll a registro. VMLS, over that there is populated to the proper areas acress the proport area may be our unitarity to require ampliance belowing to be carried, whom there are delivery belowing to be carried, whom there.	acoustic data and pround confident to assistant me equilippi conjunctions for send-acomo levering it acoust alloo be useful to include Tables 6, 16 in players it Alleme (accordy, Oceanopality) and Phager it Alleme (accordy, Oceanopality) and Phager it Alleme (accord), to provide the amongs of the property of the levering volumes for the efficience opini callin comprous, army share including army inference accord colors, Word Turbura Generator WITE and Offseror Substation		1.5Mm3 and 29Mm3, respectively. These realistic worst case scenarios are described in Table 8.2 of	

NFOWFS3_049_022_040723	Natural England's Key Considerations	NAU	nyal Englan	6's Advice	200		Marine	8 - Updated baseline information	N
	Section 42 Preliminary Environmental Information Report (PEIR)	NE Ref	PEIR Ref	Comment	Recommendation included for all the shove areas i.e., whole project area.	Risk (RAG)	Geology Oceanography and Physical Processes	on metocean (tidal currents, waves) and sediments that are bespoke to the Project is provided in Section 8.5 of	
	Baseline Characterisation - D	locument ()	s) Used Ch	apter 8 Manne Geology, Oceanography and Phy	sical Processes		110003303	Chapter 8 (Marine Geology,	
	Survey Data Acquellion	5	Table 858 8422	The site-specific geophysical surveys and benthe curvey are of sufficient quality and countily for characterising the consing state-of-physical environment. However, shall specific metiscane, lendl, wave, wanter their and current), and sediment transport regime state of their consistence of the service of the state of their countil countil characteristic and their state of their countil countil characteristics and measured and modeled data from the nearby operational Creater Caldonial Offsitors Whost Farm (CGDW) with farm in 2006 and 2011, height while 2006 and 2011, height with properties of the countil countil countil characteristics.	We advise that best practice is for site-specific word, www. bill and sediment transport regime data to be used. If a different approach is set taken, then string justication and indust, evidence will need to support the projected approach;			Oceanography and Physical Processes). Wind data is not required for the EIA and will be collected for the engineering detailed design as	
	Uath Calps	9		Modeled bild current data from GGDW (GDD) and measured that current data for GGDW (GDD) and measured that current data for GGDW (Newment 2045 to March 2045). Have been used to define the field current to the cost three been obtained from the East Angle Costal Group 2010). We note (Gescho S A.G.) The anticipated bill, given the similar water depths (epart from tocal variations custod by effections will the same water depths of the cost to the same water depths of the same water conditions across from the same water condit	We advise validating the GCOW date with measurements of thail behavior at SIX/III Falls to support the assumption that they we representative of the North Palls tidal regime.			required. 9 - Updated baseline information on tidal currents that are bespoke to the Project is provided in Section 8.5.4 of Chapter 8.	

Second Brighted's Astec-	Manual Boggin		National Engand to Key Considerations	Consider
NE PEIR Comment	NE PEIR Rul 10 10 10 10 10 10 10 1	Preliminary III III III III III III III III III I	Rations Engent's Rep Consider was Section 42 Performany Environmental Information Report (PERI) Data Analysis, Modeling and Reporting	Conduction
VF.	NE	N		Prelimonary ental Information CUT)

Section SE Prising Comments Report (PER)	Geology Geology Geology Geology Geology Geology Oceanography and Physical Processes Final Report File Rep	NFOWES3 049 024 040723	Natural England's Key	Notice	ni England	To Advice			Marine	13 - An updated comparison of	of N	
Integrately of the sealed across the North Falls sway and Misterior to Prova across the OCHAN array and Officer's to Prova across the OCHAN array and Officer's to Prova across the OCHAN array and Officer of the North Calls cranty and adopt the interconnectic cubics crantos with in water objects of c. 60m (IAT) Farthermore, the resident across the vest of the North Falls arrays at this, feedures, and in one owner, writing the OCHAN arrays and the north Calls Arrays and the nor	Integraphy of the sealed across he North Falls analys and Nitroris to those across he OCOVER array and Officer's control and yet Very across the vest of the North Falls arrays and start the vest of the North Falls arrays and start the sealed across the All Fallsmanns, the sealed across the All Fallsmanns, the sealed across the All Fallsmanns, and the sealed across the All Registration of the North Falls arrays at Mul. All Registrations and the north Collage All Registrations and the North Earlies was and are All Registrations and the North Earlies was and are All Registrations and the North Earlies and are All Registrations and Registrations and are All Registrations and Regi	NFOWFS3_049_024_040723	Section 42 Pre Iminary Environmental Information	ME Raf	PEIR Rat	Comment Insperson of Impacts, while the Disable Collected and Calabapie Officiary World Fame (OWEs) data relation to the pre-siling parallelisms of the successories, in a consideration of the collected and possible of the pre-siling parallelisms of the successories. In a collected and possible parallelisms of the successories. The collected are operation on the successories of the pre-siling of the pre-s	A more detailed companion of the North Falls army is referenced to ballymetry and easiest cooperative the road GOW.	ak AG)	Oceanography and Physical	GGOW and GWF has now be included in Section 8.4.6 in Chapter 8 (Marine Geology, Oceanography and Physical	S,	
						trase across the GOOW and GOW arrays the but not their collection. The is budget the targoright of the season's cross are form targoright of the season's cross are form given also gotte offsent to those across fine the season's cross across and season's fine offsent to those across fine season's fine the season's cross across and season's fine the season's cross across season's fine the season's cross across season's fine the season's cross across fine the season's cross across the season's cross across across the season's cross across across fine the season's cross across season's cross across across during the season's cross during the season's cross during the season's during the season's during during the season's during dur						

NEOWES3 049 025 040723	Natural England's Key	Nan	oral Englan	o's America		Marine	14 - Undated haseline	Y
NFOWFS3_049_025_040723	Natural England + Key Coynoldersisons Section 42 Preliminary Environmental Information Report (PEIR)	NE Ref	PEIR Ref. Section 6.4 559-int Ad. Figure 6.1 Section 2.4 679-int 4.5	Comment B is 'anticipated that given the similar weller depth apart from focal variation's closued by a comment of the similar closued by the comment of the similar closued by the comment of the comment of the comment However, Figure 8.1 shows that there is house defences in bathymatry and solobed soportionly services the from their and GGOWGTW immigs, which will efficience characterisation of the wave and tole hobitoris within and to the colony of the North falls wrings. The GGOW waver data form the basis for the North falls wrings and the second of the models of the Horn Falls project reporters and understanding of the besides for the print to, and at the time of the project	of the powering current conditions at the North- Talls array areas (deathy at the time that project, it implementary). We advise that it should be demonstrated that the 2004-2005 GGOV wave data are representative of the previating value to 2004-2005 GGOV wave data are representative of the previating value the time the project is implementally. This wave the time the project is implementally from the project in the project in the project that the project is a project that the project is a project that the project is a project that the project the project is the project that the project the project that the project the project t	Marine Geology Oceanography and Physical Processes	provided in Section 8.5.4 of Chapter 8 (Marine Geology, Oceanography and Physical Processes) demonstrating the similarity of the recent data with that modelled at GWF. 15 - Numerical modelling of waves has now been completed for potential operational impacts due to the presence of the foundation structures. This replaces the conceptual assessment completed in the PEIR.	Y
							Updated baseline information on waves that are bespoke to the Project is provided in Section 8.5.5 of Chapter 8. 16 - A larger number of narrower-spaced foundations is considered to have a larger effect on physical processes than a smaller number of wider-spaced foundations. On an individual basis, a larger turbine will have a greater effect on tidal currents and waves than a smaller turbine, but the combined effect with the rest of the arridar ground larger will be less	
							for wider-spaced larger foundations than for narrower-spaced smaller foundations. Hence, the layouts of GGOW and GWF are conservative proxies for North Falls. However, wave modelling has now been undertaken for the North Falls array (document reference 3.3.3). This is based on the refined worst case scenario of up to 57 gravity base system (GBS) wind turbine foundations.	

EOMEON 040 000 040700	Natural Englack's Key	Natu	ral Englised	Pa Advice			Marina	47. The notential impost of	V
OWFS3_049_026_040723	Section 42 Preliminary Environmental Information Report (PEIR)	NE Réf	PEIR Ref	Comment	Recommendation	Risk (RAG)	Marine Geology	17 - The potential impact of offshore elements, including the	Y
	Environmental Impact Assess	ment - Doc	coment Use	DVIE possecie a conservative proxy for the North Falls assessment. Nerveue, we reculd, selected that the supple MOS MYG and COP- active proximation and the North Copies of Copies and the North Copies of Copies and polarization and the North Copies of Copie			Oceanography and Physical Processes	HDD exit point, on coastal processes during both construction and operation have been assessed in Section 8.6.2 and Section 8.6.3 of Chapter 8	
	issentives expacts	17	571. Section	We wildown the project's parametered be avoid deed disturbance on the inherical process by using information Derectional Distractional Derectional Distractional Distractional Distractional Distractional Distractional Distraction and project cable at the artifact of a distraction of a partial project of the distraction of the distraction of the distraction of the distraction on the distraction of conference in the control of control of control on the distraction of conference in the control of control of control on the distraction of conference in the control of control	HDD activities, including access routes from the intericlal until the ever pits. Potential impacts around from HDD activities will also need to be considered and assessed to the ES.			(Marine Geology, Oceanography and Physical Processes). Horizontal Directional Drilling (HDD) will be used as the preferred construction method at the landfall, reducing the potential for disturbance of	
		18	85,32 A 8533	It is taken that the nominer and touriers analy experience a macrobial regime However, the mean according tool langua for the nominers array and acuthers array, and 7.5m and 3-3.5m, respectively. These	We advise this arous his clarified			surface features of the Holland Haven Marshes SSSI.	
								Installation by HDD would require a fenced landfall construction compound. A maximum 150 x 75m temporary landfall construction compound for up to two transition joint bays may be required.	
								An Outline HDD Method and Draft 'Break-out' Contingency Plan is submitted with the DCO application (document reference 7.15).	
								More information on Horizontal Directional Drilling (HDD) is provided in Chapter 5 Project Description.	

NEOWES3 040 027 040722	Natural England's Key	Ref	ary England	d's Advice		Marino	10. The Applicant has	V
NFOWFS3_049_027_040723	National England is Soy Constitutional Society of Periodicary Environmental Information Report (PERI)	Feet Test	8.5.9 8.5.9 8.5.9 8.5.10 8.6.11 Point 1200	Comment Suggest a mesodosi regime (2 4m bda comment suggest a mesodosi regime (2 4m bda comment regiment suggest and the landshill across will be regiment suggest and sugg	The sensitivity and significance of effect should be asserted on the loans that there is a pullway to impact to an identified reciging a. NOU MCC.	Marine Geology Oceanography and Physical Processes	19 - The Applicant has committed to Horizontal Direction Drilling (HDD) at landfall and the onshore drilling location will be set back, approximately 400m from the coast. The depth profile of the HDD below ground would be designed to ensure there would be no impact on the coast. Therefore, there is no potential pathway for impact between any onshore elements and the coast. The potential impact of offshore elements, including the HDD exit point, on coastal processes during both construction and operation have been assessed in Section 8.6.2 and Section 8.6.3 of Chapter 8 (Marine Geology, Oceanography and Physical Processes). 20 - The depth profile of the HDD below the beach would be designed to ensure there would be no exposure of the cable over	Y
							Geology, Oceanography and Physical Processes). 20 - The depth profile of the HDD below the beach would be designed to ensure there would	
							in beach level. 21 - The refined boundary of the array means that it is does not overlap Kentish Knock East Marine Conservation Zone. Hence, the original assessment continues to apply as described in Section 8.6.2.1 of Chapter 8.	

NFOWFS3_049_028_040723	Natural Engand's Klay Constitutions Section 42 Preliminary	NE	PEIR	l's Advice	Recommendation	Rink	Marine	22 - The new boundary of the	Υ
	Section 42 Preliminary Environmental Information Report (PER)	ituf	Ref	KKE MCZ whon should be acknowledged in this impact assessment.	Hardinandame.	IRAGI	Geology Oceanography	array means that it is does not overlap Kentish Knock East	
		12	88222	(Altrough we appreciate that MCE MCZ is almostered and accessed in the Marine Comercial Zone Assessment (MCZA)) if is stated that due to the nature of the	We advise this about the reflectant in the		and Physical Processes	Marine Conservation Zone. Also, the impacts on SSCs do	
			86773	pressure (increase in SSCs due to drill average for excellations if plant his research) there is no participally the effect to any consider receptor so marriage they are not exmediture to	and action and the Postume to SGCs due to the American street and the service of accordingly.			not directly affect the KKE	
				this pressure: Similarly, it is stated that the impacts on SSCe, do not directly affect the atending receipts groups. However, as shalled above, we advise that KKE MCZ bysinion with the south series, and has been				Kentish Knock East MCZ because in terms of its physical	
		D.	8627	signified at a recipior. Therefore, we advise that there is a pullway for record to an identified reseptor. It is stated that explanent suppress our to	in the CS should provide predicted thickness of			processes, this receptor is dominated by processes that are	
			Fumile 126-137	irreparation for foundation installation could form a mound likely to be tens of sentimetres to a few metres high, local to the misease ason. What is the anticipaled residutio muscle.	section of following disposition for the dominant section in the dominant section in his provide maps showing section in the provide maps showing section as section in thickness and			active along the seabed and not	
				Nation 77 With regards to the sectioneral research it is also suggested that "overall changes in elevation of the sectioned are president part of the section of the sectio	footprint for a secrement release point in the north away and the south away (at the overse) with KNC MC2)			affected by suspended sediment in the water column. Hence, the	
				to the absolute depth of water (up to Silim below LAT). However, witer depths in the narm array range from 12.0-59 Am below LAT and in the south array range from 3.3-				original assessment continues to	
	L.			\$5.60 below LAT. Therefore, if a single		_		apply as described in Section 8.6.2.2 of Chapter 8 (Marine	
								Geology, Oceanography and	
								Physical Processes). The effects on flora and fauna associated	
								with the MCZ are assessed in Chapter 10 Benthic and	
								Intertidal Ecology.	
								23 - The precise dimensions of	
								the resulting mound are	
								unknown and will depend on release volumes, location of	
								release points, and how long the release takes place for. It is	
								anticipated that the mound will	
								not exceed a few metres. Maps of predicted thickness and	
								footprints of mounds is	
								disproportionate to the potential effect given that most of the	
								sediment will be redistributed	
								(and the mound will change shape) by physical processes	
								over the short- to medium-term.	
								It is accepted that a mound of	
								several metres in shallow water would be a significant change in	
								the bed elevation. However, the	
								mounds will be mobile and driven by the physical	
								processes, rather than the	
								physical processes being driven by them. This means that over	

				time the sediment comprising the mound will gradually be redistributed by the prevailing waves and tidal currents. This reworking will be more pronounced in shallow water depths where waves will impinge on the bed and reduce the height of the mound more rapidly. Also, shallow water depths are restricted to small areas at the periphery of the array, and so the number of mounds in these depths would be limited.	
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OWFS3 049 029 040723	Natural England's Key	Nat	wal England	d's Advice		Marine	24 - There is no evidence from	
OWFS3_049_029_040723	Natural England s Rey Comide groun Section 42 Preliminary Environmental Information Report (PEIR)	NE Rol	PEIR Ref	Comment sodiment mound a few matters high is theposited on the sealoud in 3.3m water dages in count affect the hydroxynamic and sectionary historyout regimes. It states that over time the sectionary it states that over time the sectionary and southeast by the prevailing waves and folial juvients. Is there may switched from the adjoinent operational OWFs to support this conclusion?	Recommendation Risk (RAG) Provide supporting evidence telerence.	Marine Geology Oceanography and Physical Processes	24 - There is no evidence from the adjacent wind farms, however using expert judgement based on sediment particle size and the prevailing physical conditions, the re-distribution would take place. When an unconsolidated mound is placed on the seabed that has a similar	`
		25	Point. 154 & Table 8.18	We note that no aperior associations have been undertaken to understand the flags time travel for the mounds to large entitle. We understand impacts to KKE MCZ are assessed in the MCZA, however, because it doubt to although on the model of physical environment and physical processes, it is also a marine processes monopror and impacts to it smooth or the mound will be unknowed by foot them are a number of habitasticapooes sensitive to emotive mig. It is stalled that over time the mound will be unknowed by foot currents and the mound world better through ensoon. Can this be quantified verified? Hailands to an comment on WCSS for	Can sile-specific data to variet or eletrinals the timescule for the mound to be winnowed twinded away? Of aire there also atta available for mound readering lime for diff arriang mounds from GSOW and GWF? We advise that monitoring requirements need to be exhituated for diff arrang mounds if these will be present in KKE MCZ. However, places note that we advise that instanticute and seaccidate in places are a variety on WKE MCZ and that instigations maintained would need to be adopted. We advise using project-specific geophysical.		particle size to the surrounding seabed, it will be mobilised by the prevailing physical drivers, and gradually lowered to be in equilibrium with those drivers. For more information, see ES Chapter 8 Marine Geology, Oceanography and Physical	
			10	Awaling (pre-sweeping) may be required along the offshore cable corridor (OCC) prior	survey data to refine down this WCS to make it more resulted. The success and the survey of the survey of designated seathers overlapping or adjacent to the OCC doubt be identified on Figure 8.12.		Processes. 25 - Due to the post-PEIR refinement to the array area, there will be no mounds within the Kentish Knock East MCZ. An assessment of mounds within the remaining array area is provided in Section 8.6.2.4, however it is not possible to quantify erosion of the mounds. It is unlikely that the mounds will fully erode given their composition, but gradual	
							winnowing would take place over time. The mounds are likely to be present on the seabed over the long-term. The winnowing of the mud clasts will be almost imperceptible as a process, with individual mud particles stripped off the clasts by tidal currents. There would be no increase in SSCs and no smothering of habitats because the winnowing process is on a	
							particle-by-particle basis. 26 - The potential sandwave levelling requirement along the offshore cable corridor is	

		estimated to be 1.5Mm3. This realistic worst case scenario is described in Table 8.2 in Chapter 8 (Marine Geology, Oceanography and Physical Processes). The position of receptors relative to the offshore cable corridor is shown on Figure 8.15 (document reference 3.2.4).	

IFOWFS3_049_030_040723	Nature England's Key	Natu	rel England	d's Adves	V 100 / 100 / 100	Marine	27 - The volumes of sediment	N
0 00_0-0_000_0-020	Section 42 Preliminary Environmental Information Report (PEIR)	NE Ruf	PER	shoes appropries to be present approx	Recommunication (R	Geology Oceanography	associated with the HDD exit pits and the disposal of this	14
		27	86252 /Point 162	"20% of the DOD and migaspoline "55% (may) of the DOD. Avelopated HDD exit pit locations and MDD parameters have mit been provided.	in the ES; more specific details will be needed on the HCO EX PN MOS is g., several and authered volume, solder opps, number of pile, secretary deptil, Allej duration pil self termin open all any green lines, and file Lets of	and Physical Processes	sediment is included within the values provided for the offshore cable corridor. The water depth	
		26	Point 182	It is stated that expant cable installation have the potential to disturb the seared down to 1.2m with a wait of the potential to 1.2m with a wait of the potential that wait of the potential that of	removed audionest The second for classifier. We advise that this enough not be used as an emergy.		at the HDD exit pit locations will be 1 to 8m below MHWS. There will be up to three exit pits, for two offshore export cables and one for contingency. The parameters used for the marine	
		31	973	processed. 2 No sensitivity has been assessed. Yet there is the potential for impacts to insegrated as the potential for impacts is dissignated areas along the coult adjustment to processed justifies ABLS 3AC, and Arman I sundownki. 2 I has been concluded that the effects on 55Cs don't be export cools installation would have to change upon the identified.	make sensitivity passement for all feodetors, within the Jone of influence (2st). We ask-as further encoron is provided to inapport find accordance for maps be provided to indepent find accordance. Can maps be provided in vice provided accordance for maps be provided in vice provided accordance for the vice provided accordance for the vice provided according and accordance leveling, for officient		geology, oceanography and physical processes assessment are provided in Table 8.2 and further information on the landfall construction works is	
							provided in ES Chapter 5 Project Description (Document Reference: 3.1.17). Sediment arising from the landfall HDD will be disposed of on land.	
							28 - 24m changed to 1m in the main text to be consistent with the correct numbers in Table 8.2 of Chapter 8 (Marine Geology Oceanography and Physical Processes).	
							29 - Noted, this analogy has been removed.	
							30 - The impacts on SSCs due to export cable installation do not directly affect the identified receptor groups for marine geology, oceanography and physical processes. This is	
							because the receptors are dominated by processes that are active along the seabed and not affected by suspended sediment in the water column. Hence, there is no pathway for effect	
							and sensitivity is not required (consistent with other assessments of SSC in the chapter). The effects on benthic	

		receptors are assessed in ES Chapter 10 Benthic and Intertidal Ecology (Volume I). 31 - The impacts on SSCs due to export cable installation do not directly affect the identified receptor groups for marine geology, oceanography and physical processes. This is because the receptors are dominated by processes that are active along the seabed and not affected by suspended sediment in the water column. However,	
		(Marine Geology Oceanography and Physical Processes)). The impact on SSCs does have the potential to affect other receptors and the assessment of effect significance is addressed within the relevant chapters of this ES (Section 8.10).	

NFOWES3 049 031 040723	Natural England's Key	Kee	ral English	6 x Anvies		Marine	32 - The notential sandwave	
NFOWFS3_049_031_040723	Names Engand's Key General short Section of Pyterinary Environmental financials Report (PER)	NE Ruf	PER Ref	Continues: Continues: Tradeptors: Can further evidence be provided to support this conclusion? Sanchiave fevering may be required for the array/infectionestic cable point to measurance. Task includes sanchave leverling for all array cables and the entire reflectments of the conclusion sanchave leverling for all array cables and the entire reflectments of the continues of the extra reflect cable. As we advised eather for the OCC, the lis not a resistation WCS. No serralivity has been assessed. Yet there is the countries for impacting the KKE MCZ and Annual sanchaves. It is stated the indication is SCs due to array and resecond-cord cable installation. If is stated that may also the indirection is SCs due to array and resecond-cord cable installation.	Recommendation Risk (RAO) actiment fractions and test blomaries at offerent bookers along the OCC (e.g., controllers and controllers along the OCC (e.g., controllers and states). Per second to the controllers and states are of impact of the controllers and controllers and makes a test are of impact (both of the assessment The water of IOCS INC America standards, and those sendominal shoose solidopal structure and force solidopal solidopal structure and force solidopal solidopal structure solidopal s	Marine Geology Oceanography and Physical Processes	32 - The potential sandwave levelling requirement along the offshore array cables is estimated to be 29Mm3. This has been refined based on analysis of the geophysical data. This realistic worst case scenario is described in Table 8.2 of Chapter 8 (Marine Geology, Oceanography and Physical Processes). The potential direct and indirect	
		35.	8.62.9 Pont 197		plume institut, constitution, and personnel with patholical insight to IRE MCZ and Astres sandarests inspect to IRE MCZ and Astres sandarests in the IRES, and powde right, for sediment settlement fluoress and floopress and patholical inspect to the Annex I sendarest and KKE MCZ.		effects are assessed in Section 8.6.2.9 of Chapter 8 (Marine Geology, Oceanography and Physical Processes), where the assessment of the offshore array and export.	
							33 - The impacts on SSCs due to offshore array cable installation do not directly affect the KKE MCZ and Annex I sandbanks receptors for marine geology, oceanography and physical processes. This is because the receptors are dominated by processes that are	
							active along the seabed and not affected by suspended sediment in the water column. However, there may be impacts arising from subsequent deposition of the suspended sediment on the seabed and these are discussed under Construction Impact 6 (Section 8.6.2.8 of Chapter 8	
							(Marine Geology, Oceanography and Physical Processes)). The impact on SSCs does have the potential to affect other receptors and the assessment of effect significance is addressed within the relevant chapters of	
							this ES (Section 8.10 of Chapter 8 (Marine Geology, Oceanography and Physical	

Processes)). 34 - Section 8.6.2.7 assesses changes to SSC which do not directly affect the KKE MCZ and Annex I sandbanks receptors. This is because these receptors are not driven by processes that	
changes to SSC which do not directly affect the KKE MCZ and Annex I sandbanks receptors. This is because these receptors	
changes to SSC which do not directly affect the KKE MCZ and Annex I sandbanks receptors. This is because these receptors	
directly affect the KKE MCZ and Annex I sandbanks receptors. This is because these receptors	
Annex I sandbanks receptors. This is because these receptors	
This is because these receptors	
occur in the water column (i.e.	
suspended sediment), but rather	
by processes that are active on	
the seabed (i.e. bedload	
sediment). Hence, there may be	
potential effects if the	
suspended sediment is	
deposited on the bed from the	
plume. These potential effects	
are covered in Section 8.6.2.8 of	
Chapter 8 (Marine Geology,	
Oceanography and Physical	
Processes).	
35 - The conceptual evidence-	
based assessment of deposition	
from the plume generated from	
offshore array cable installation	
indicates that the changes in	
seabed elevation would be	
effectively immeasurable within	
the accuracy of any numerical	
model or bathymetric survey.	
This is because, after this initial	
deposition, the deposited	
sediment will be continually resuspended to reduce the	
thickness to a point where it will	
be effectively zero. This will be	
the longer-term outcome once	
the sediment supply from cable	
installation has ceased. This	
means that given these very	
small magnitude changes in	
seabed level arising from cable	
installation, the effects on the	
Annex I sandbanks and KKE	
MCZ would not be significant.	
More information on how the	
Project no longer overlaps with	
designated areas can be found	

		in the Marine Conservation Zone Assessment Report (Document Reference 7.3).	

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NFOWFS3 049 033 040723	Natural England's Key Natural Engl Considerations	pland's Advice	Company of the Compan	Marine	38 - The Inner Dowsing Race	N
JFOWFS3_049_033_040723	Natural England's Key Getaldatedox Section 42 Prolimitary Environmental Information Report (PEIR)	R Comment		Marine Geology Oceanography and Physical Processes	38 - The Inner Dowsing Race Bank and North Ridge SAC and Haisborough Hammond and Winterton SAC represent highly conservative examples of impacts and recovery, as previous impacts in these areas were associated with works within the SACs, whereas for North Falls there is no direct overlap with a designated site.	N

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				41 - A commitment has been made to install the export cable at the landfall using HDD techniques (see Chapter 5, Project Description), thus avoiding direct disturbance in the intertidal and shallow subtidal zones. This means that there is unlikely to be any changes to the wave regime inside the closure depth for this coast because the cable will be buried. The impact of any temporary cofferdams during construction would be short-lived and local. Cable protection, berms and crossings in deeper water will have little effect on waves.	
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Marine 42 - The worst case footprint on Y	Natural England s Key Natural England's Advice Complete reference						
Geology Oceanography and Physical Processes Geology Oceanography and Physical Processes Geology Oceanography and Physical Processes Geology Osp/OCP foundations and scour protection, two GBS OSP/OCP foundations with scour protection, and up to 20% of array cable protection (38km) (Table 8.2 of Chapter 8 (Marine Geology Oceanography and Physical Processes)). This constitutes only 5.7% of the array area, and hence the loss of seabed within the Annex I sandbanks will be much less than this (about 0.6% given their extent within the array area — Figure 8.12, document reference 3.2.4). At the scale of the study area this is negligible. There will	(RAG In the ES; we added the Project to provide morphology) In the ES; we added the Project to provide more specific evidence regarding the location area sever of Impact due to loss of easily due to a name yet and the loss of easily experted to easily expected and expected and accordance and expected	and the nearshore wave climate due to calife- protection, cable clossways and temporary collectroam save not been considered in this import suscessment. We cannot agree with the condusion that the last of seabled area due to infrastructure within the arrays with larve a negligible advente effect on sindownis (and associated nandiwaves) and KKE MCZ. because there is maufiliated evidence at present regarding the location, area, extent of impacts. We note the savaged limit for wave chiven sediment farmaport, downer dooth is estimated to be approximately 15km from the coast, within 5m water depth. (Noter VE OWF estimate 15km). Will the Proyect commit to availing the placement of cable protection in the draillow nearshore? Section 8.4.3 discusses the general approach to statestamp potential direct and soldiest impacts on marine geology.	PER Ref 86342	FOWFS3_049_035_040723			
PEIR Ref and the nearshore wave climate due to cable protection, cable crisewing and temporary collections have not been considered in this impact assessment. 6.6.3.4.2 We cannot agree with the conduction that the axis of seabled assessment within the arrays with have a negligible adverse effect on sandbasis and association and the arrays with area and protect and represent registering the location, area, extend of impacts. 6.6.3.6 We note the samward limit for wave-driven pediment farragoot, dozene depth, as estimated to be approximately 1.5 Am from the coast, within 5m water depth, filling to the committee of the committee	PER? Somment Ref and the nearshore wave climate due to cable protection, date observings and temporary collections have not been considered in this impact ancessment. The conditions that the lass of seasond area due to infrastructure within the arrays will have a negligate aboves effect on sand-basis plant associated anothers effect on sand-basis plant associated anotherses; and MCE MCZ because firers in nutritioner evidence at present regarding the location, area, basteril of impacts. 8.6.3.6 We note the sanward limit for wave-driven yealment transport observed outs in the same set of the process of the	PER Ref 86342		Authorities Section 42 Preliminary Environmental Information Report (PEIR)			
NE PEIR Comment Recommendation Recommendation And the nearshore wave climate due to cable protection, cable criosways and intropony collections have not been considered in the impact assessment. Vicinity and the conditions that the impact assessment and the protection in the straight and straight with the arrays will have a regispible adverse effect or sindbacks (and associated anotherway) and NOTE INCZ because there is insufficient evidence at present negoting the location, area, feater or impacts. Insufficient evidence at present negoting the location, area, feater or impacts. One of the straight of sensitive recipions, area of the insufficient evidence at present negoting the location, area, feater or impacts. One of the straight of sensitive recipions, area of the insufficient evidence at present negoting the location, area, feater or impacts. One of the straight of sensitive recipions, area of the straight of sensitive recipions of the straight of sensitive recipions of the straight of sensitive recipions of the straight of sensitive recipions, area of the sensitive recipions are sensitive recipions and the sensitive recipions are sensitive recipions. 44	NE PER Ref Ref Comment Ref	NE PEIR Ref Ref 42 66341	NE Ref	Com iderations Section 42 Prelimina Environmental kido Report (PEIR)			
NE PER Comment And the nearshore wave climate due to cable protection, cable obtaining and temporary colleteraries have not been considered in the importance within the arrays will have a negligible adverse effect on sandbanks (and associated and due to the importance within the arrays will have a negligible adverse effect on sandbanks (and associated due to any will have a negligible adverse effect on sandbanks (and associated due to array without within the arrays will have a negligible adverse effect on sandbanks (and associated due to array without the provide due to send the receipts and any of the provide due to a many of the structure will necessary to the provide due to a many without the provide due to a many without the receipts and send of the provide due to a many without the provide due to a many without the provide due to a many without the receipts and on their arithmospheric pressures being awards on their arithmospheric pressures being awards on the examinated to be approximately 1.5 km from the costs, within 5m water depth. (Note 'to OWF estimate 1.5 km; from the costs, within 5m water depth. (Note 'to OWF estimate 1.5 km; from the costs, within 5m water depth. (Note 'to OWF estimate 1.5 km; from the costs within the shallow reportation in the shallow reportation; in the impact assessment from the impact assessment in the impact assessment from the might of the protection and the provide of the provide due to the provide due t	INE PER Ref Ref Comment and the nearshore wave climate due to cable protection, cable closings and temporary colfestions have not been considered in this impost audessment. 42 8.6.3.4.2 We cannot agree with have a regisjoble adverse effect or sandbanks fand associated another with the arrays will have a regisjoble adverse effect or sandbanks fand associated anotherwes) and NYC MIC because there is insufficient evidence at present registering the location, area, extent of impacts. 43 8.6.3.6 We note the sharper of impacts, some protection of the experimental farmanot, closive depth, is no met costs within 5th waiter depth. Note VE OVY estimate 1.5am; Will the Project commit by anothing the placement of cable protection in the shallow nearshore? 44 8.4.3 Section 6.4.3 discusses the general approach is subsessing potential direct and indirect impacts on marine geloxy, occasionally of receptor and magnitude of impact), but details of specific analysis in entertods have not been provided. Furthermore, it is stated that the impact transcusment has considered the spotial scales; the details of specific analysis.	NE PEIR Ref Ref 42 6.634	NE Ref				

		technique but utilises all the evidence available in all its forms. Temporal variability is discussed throughout regarding whether the effect is temporary or permanent.	

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NFOWFS3_049_036_040723	Namen Enginery & Ray Section 42 Preliments Environmental Internation Research (#EIR)	46) an	Engineers Annews palative emblor guidance discovered field palative ambior guidance discovered field palative in the second of the second o	Passesse readings. Passesse readings represent protection on spellings of the spellings of	Marine Geology Oceanography and Physical Processes	45 - A landfall area has been selected, discussed further in Chapter 4 Site selection and assessment of alternatives. The method for cable installation at landfall is described in Chapter 5 Project Description. This will be by HDD and therefore this is the only method that is required to be assessed. 46 - The S-P-R is the conceptual model that determines whether the effect can be potentially significant or not. The matrix quantifies the magnitude of this potential effect on the receptors for marine geology, oceanography and physical processes. 47 - Numerical modelling of waves has now been completed for potential operational impacts due to the presence of the	Y

		which contains all those	
		which contains all those receptors of significance to marine geology, oceanography and physical processes.	
		marine deology, oceanography	
		and physical processes	
		and physical processes.	

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NFOWFS3_049_038_040723	Natural England's Kay	Ne	mural English	od's Advice	70.0	Marine	49 - The assessment of	N
NFOWFS3_049_038_040723	Tection 2 Preliminary Eventrolineads Information Report (PER)	100	PER	Comment Seather additional criminate estation in the Factors Falls MUSG GBS Submission would be 19.2-20-11 (seated on a 75 the claim term of 18.7-20-11) (seated on a 75 the claim term of 18.7-20-11) (seated on a 75 the claim term of 18.7-20-11) (seated on a 75 the claim term of 18.7-20-11) (seated on a 18.7-20-11) (seated on a 18.7-20-11) (seated on the seated of 18.7-20-20-11) (seated on the seated of 18.7-20-20-11) (seated on the seated of 18.7-20-20-20-11) (seated on the seated of 18.7-20-20-20-20-20-20-20-20-20-20-20-20-20-	We advise a factor assessment to establish (KAO) We advise a factor assessment to establish (KAO) We starty value of destinant planes, (factor accordance, and control, and a result of the Control accordance), and a result of the Control accordance on	Marine Geology Oceanography and Physical Processes	sediment dispersion in the water column due to seabed preparation for foundation installation that was completed at Five Estuaries Wind Farm has been added to Section 8.6.2.1 of Chapter 8 (Marine Geology Oceanography and Physical Processes) to add supporting evidence. The assessment used spreadsheet numerical models to determine potential impact and provided indications of potential footprints. Hence, the method is semi-quantitative. The total volume of sediment released during seabed preparation was estimated as 1.19Mm3 which is conservative compared to the estimated release of 1.14Mm3 at North Falls, and so the results of the Five Estuaries assessment is conservative and a good analogy.	N

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Section 42 Preliminary Environmental Information NE Ref									
Comment Despoke deak-based assessment of the enthroles calls compare and the sundhile security of the control of the second security of the second second security of the second second section second seco	NFOWFS3_049_040_040723								
Recommendation Risk (RAG) Commaps by gravious to those potential within a science thickness and restored as the state of the science thickness and restored as to take the recting and a wark-one leveling. It allowed sociences the clience and test sciences and restored as to the science and test sciences and other thickness along the OCE (is g. instruct, read to MLS SAC, Annex I sanstigue)? We shall the thickness and further the masked morphological statement on full timestate out to individual installation activities, a consistence.	Section 42 Pretininary Environmental information Rept (PEIR) Section 42 Pretininary								
Recommendation Geology Oceanography and Physical Processes Can maps be provided to drow potential withing sacring the provided to drow potential withing sacring and waterbase leading, the different sacring the thickness and federate to different sacring the activation and field sumanaicy at different sacring and to M.B. SAC, Arrays I sangage, 7. We shall be the form and function of the wasped industrial installation activities, is econsistent. This MDS for North Field should be presented, including the adoptional potential activities and potential potential papering. Fathorise for the applicability of the GWF field current amemental to Month Field should be provided, or a project appecific disa given analysis carried out in the ES, further waters due to the earny foundations will also need to be considered out animatered, which potential accordance on the ES, further waters due to the earny foundations will also need to be considered out animatered,	Section 42 Preliminary Embroomerical information Report (PEIR) Section 42 Preliminary Embroomerical information Ref. Ref. Command Recommendation Risk (RAd)								
Can maps by provious to show potential witted seathers thirdness and subprint due to cable sending a warehome leading. It offliness address thirdness and selections, by different sediment fractions along the COC (e.g., inspiror, med to MLS SAC, America). Sending a sending of sediment sediments and selection of the seabed morphological flustrates not fail mised due to individual installation activities, is consistent. This MDS for Night Falls should be prescribed, including the analocation minimum tratine space, Sationale for the applicability of the GNF feld continues are supplied appeals and should be provided, or a project appeals a should be provided, or a project appeals of the Saturation where due to the entry foundations.	Section 42 Pretininary Emiroromental information Rept (PEIR) Despute deal-based assessment of the others calls continue and caresplant entertains and continue and caresplant entertains and caresplant during an administration and caresplant entertains								
	Section 42 Preliminary Environmental information Report (PEIR) NE Ref								
1 日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日本の日	Capsiliarations Section of Pretiminary Environmental information Report (PEIR) S2								
963.1/ Pose 1224	Section 42 Preliminary Environmental Information								
NE PER Ref Ref S2 8.62.63 7 50 8.62.10 5 3 90mm 219 54 96.11 7 Post 224 9									

The potential effect of turbul wakes has been considered part of the overall conceptua evidence-based assessmen changes to tidal currents in Section 8.6.3.1, it is indicate that there is no interaction wakes from adjacent foundations due to the relatifiance separation distances. Solvered in Section 8.6.3.3 a Section 8.6.3	d as al
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NEOWES3 049 041 040723	Natural England & Key	ten	tatural Englis	Ingland's Advice	1000	200	Marine	55 - Δ single rotor diameter for	N
OWFS3_049_041_040723	National Engined is May Conservations Section of Problemany Environmental Information Report (Public)	NE Raf	PER Rad Rad Section 4	FER Comment of the Comment of the Comment of the CNV comment of the CN	recognize that corresponds to the convey of the born field energy). Please can only be carefully? Please demonstrate from the GMF-wave model and GGD MF-wave data provide in	Risk (RAG)	Marine Geology Oceanography and Physical Processes	55 - A single rotor diameter for each wind turbine generator size class is now defined and the spacing updated accordingly in Section 5.5.3.2 of Chapter 5 (Project Description). 56 - Numerical modelling of waves has now been completed for potential operational impacts due to the presence of the foundation structures. This replaces the conceptual assessment completed in the PEIR. Updated baseline information on waves that are bespoke to the Project is provided in Section 8.5.5 of Chapter 8 (Marine Geology Oceanography and Physical Processes).	N

NEOWES3 049 042 040723	Natural England's May Session England's Astronor	Marine	57 - Numerical modelling of	
NFOWFS3_049_042_040723	Security of Prominentary Security of Prominentary Report (PCR) PLA PLA PLA PLA Commant Report (PCR) Report (PCR) PLA PLA PLA PLA Commant Report (PCR) PLA PLA PLA PLA PLA Report (PCR) PLA PLA PLA PLA Report (PCR) PLA PLA PLA PLA PLA PLA PLA PL	Marine Geology Oceanography and Physical Processes	57 - Numerical modelling of waves (see Wave Assessment, document reference 3.3.3) has now been completed for potential operational impacts due to the presence of the foundation structures. Model runs were completed for waves from the north-north-west, north, east and south-south-west for three return periods (1 in 1 year, 1 in 50 year and 1 in 100 year). Simulations were completed for the effect of North Falls both individually and cumulatively with other wind farm developments (either in the planning phase or constructed). 58 - Figure 8.17 (document reference 3.2.4) presents worst case changes to waves for North Falls, which are described in Section 8.6.3.2 of Chapter 8 (Marine Geology Oceanography and Physical Processes). 59 - Updated baseline information on waves that are bespoke to the Project is provided in Section 8.5.5 of Chapter 8 (Marine Geology Oceanography and Physical Processes).	

NFOWFS3_049_043_040723	Natural England's Key	Material	Finglanc	I's Adelce		Marine	60 - The significance of changes	N
0111 00_010_010_010720	Section 42 Preliminary Environmental Information	NE Rud	PEIR Haf	Comment	Recommendation Risk (RAG)	Geology	in tidal flow and wave heights	. ,
	Report (PEIR)			Battis Sea and was not recorded in the		Oceanography	during the operational phase of	
				visitely of North Falls. The former of these data are skil, and the later and solve vicinity of North Falls. Project-specific data should be		and Physical	North Falls are low in the near-	
				LIBERT P AVAILANCE LIE ME WANT WATER STREET		Processes	field and negligible in the far-	
		60	1913	one are not granice. It is shall that the predicted reductions in talkings and assistance (he to the presence of the WCS GBS handalisms.)	is would be creful to see a smaller study corned indition frontly Falls (in a companison of that shear show values before and after		field. Hence, changes in	
				sculd result in a reduction in the sectment transport potential above the event The assessment of this impact has again, been	Se study were to order to understand potential		sediment transport driven by	
				assessment of this impact has again, been based on the GWF (2011). Therefore, we nelle the Froject to our earlier command on	changes to readed morphology, areas of designation solitons, the form and function of Annex i sandtonius etc.		these two processes would be	
				tie 50t and wave arqued streamments in regard to the ABP ther (2011) study to assess the potential impact to regional bedigast.			similarly low in the near-field and	
				Twingort processes caused by changes in flow vectors and bed shear stress due to retailation of GWF. Given the consums with			negligible in the far-field. These	
				respect to seabed morphology and the form- and function of Annex I sandbanks due to the			magnitudes of significance are	
				presence of GWF can the same study be damed out for from Falls? Can seased monity across the study also be magged?			supported by the numerical modelling assessments at	
				Owing to the lack of relevant ele-specific date, and aventaining with regards in the applicability of existing GWF date, we cannot			GGOW and GWF. Also, new	
				agree with the impact assessment at this			information from Five Estuaries	
		61	\$630.	The locations where cable protection resource are rical likely to be required are	We took forward to seeing refriencent of the lawelful location and OCC and, in turn, called		Wind Farm has been added to	
							Section 8.6.3.3.3 of Chapter 8	
							(Marine Geology Oceanography	
							and Physical Processes) to	
							further support the conclusions	
							of the assessment.	
							The inclusion of a bespoke study	
							to map bed shear stress against	
							seabed particle size (mobility	
							study) would be	
							disproportionate, given the	
							change in tidal current flow	
							(proxy for bed shear stress) due	
							to the Project is negligible.	
							61 - A commitment has been	
							made to install the export cable	
							at the landfall using HDD	
							techniques, thus avoiding direct	
							disturbance in the intertidal and shallow subtidal zones. This	
							means that there is unlikely to	
							be any changes to the wave	
							regime and sediment transport	
							inside the closure depth for this	
							coast because the cable will be	
							buried. The impact of any	
							temporary cofferdams during	
							construction would be short-lived	
							and local. Cable protection,	
							berms and cable crossings in	
							deeper water will have little	
							effect on waves or tidal currents.	

NFOWFS3_049_044_040723	Natural England's Key Natural England's Advoc Consultrations	400	Marine	62 - A commitment has been	Υ
-OWFS3_049_044_040723	Comment Section 42 Preliminary Environmental Information Report (PEIR) NE PEIR Ref 184 Ref 2 Amount of a comment of the com	hydrodynamic regime, septiment flamacine, outdisharp, and municiping date to the presence of stores protection measures abelied carden organized in attraction-manifest sharps. In the ES, with made to common the impact of carden protection of the propert of a consideration manifest manifest sharps and fine lifetime of the propert of a constitution, manifest manifest sharps and the form of decommandation, and with a third time of decommandation, and the sharps and the standard of the property of the constitution regarding the magnifest of spractic provisions and experiency of the standard protection of the sta	Marine Geology Oceanography and Physical Processes	made to install the export cable at the landfall using HDD techniques (see Chapter 5, Project Description), thus avoiding direct disturbance in the intertidal and shallow subtidal zones. This means that there is unlikely to be any changes to the seabed morphology and sediment transport inside the closure depth for this coast because the cable will be buried. The depth profile of the HDD below the beach would be designed to ensure there would be no exposure of the cable over the long-term, with fluctuations in beach profile and coastal retreat management. 63 - Regular bathymetry surveys of the offshore cables will be undertaken which would provide information on depth of burial and therefore provide an indication of sandwave recovery. This is discussed further in the In Principle Monitoring Plan (document reference 7.10).	Y

NFOWFS3_049_045_040723	Matural England's Key Matural Englance Advector		Marine	64 - The plans and projects	N
NFOWFS3_049_045_040723	Communication Communicatio	Recurrencedation Republication (since) of the exists bold from the controlled a sense greater remains (finite groups) and prepared a controlled to sense greater (finite groups) and prepared promotes (finite groups) and promotes (finit groups) and promotes (finite groups) and promotes (finite group	Marine Geology Oceanography and Physical Processes	64 - The plans and projects considered in the CEA are now shown in Figure 8.19 (document reference 3.2.4). 65 - This has been considered at Section 8.8.3.2 of Chapter 8 (Marine Geology Oceanography and Physical Processes). With respect to mapping plumes and deposition, the longer-term outcome once the sediment supply from cable installation has ceased, would be cumulative concentrations at background levels and bed thicknesses effectively zero. This means that the effects on the Annex I sandbanks, MLS SAC and the coast would not be significant. 66 - Cumulative operational wave and tidal current impacts with adjacent wind farms are covered in Sections 8.8.3.3 and 8.8.3.4 of Chapter 8 (Marine Geology Oceanography and Physical Processes), respectively.	N

NFOWFS3_049_046_040723	Naural England's Kay	Neoral Engine	T S Advice	Married Co.	Marine	67 - The Blackwater MCZ is	N
	Section 42 Preliminary Environmental Information	NE PER	Comment	Recommendation Rin	Geology	integral to the definition of the	
	Report (PEIR)	Ne. Ner		li li	Oceanography	Essex coast as a sensitive	
			support this statement. It should not be		and Physical	receptor, and it is not necessary	
	MCZ Assessment, Document	Used: MCZA and Cha			Processes	to break down the coast into	
	Screening	67 Oupin	The relevant sile features have been denilled. However, we would include	We would recurrence that you update the assessment to include the Blackwater MCZ		individually named sites. They	
		8.13	Biscowaler MCZ vi the lat of Previousl Receptors in Table 8.13 of Chapter & Mach			are considered in the impact	
			Geology, Oceanography and Physical Processes owing to the potential for			assessment as part of the	
			(crafty/liox an way related impacts at landfal for the project alone and in-			defined sensitive receptor and	
	Assessment	68	continuation. We are concerned that use of the GWF	We advise calibration of the GWF model		potential impacts are universally	
		1"	redirect plume model output may not be intectly applicable to the site specific.	output with data specific to the prevailing conditions at KXE MGZ in order to provide		applied across all. A map	
			prevailing conditions of North Falls, in persoular within and near to KKE MCZ.	conclusions.		showing the receptors is	
			The consequal based and GWF moon plans mains should be callored by the	We asked that the Project should by to quantify the impacts on the protected features		provided as Figure 8.15	
		8212	prevailing conditions at the area of the soul array that overlaps with KNE MCZ and the			(document reference 3.2.4),	
			scjacovi seshed ures	A map should be provided showing the plume		which contains all those	
			Point 185 suggests that athough 'SIGC will be elevated, they are likely to be lower than	extent: SSC concernsion and perunitence for WCS construction activities reading to SSC		receptors of significance to	
			concernations that would develop in the mater column during storm conditions. Also	charges, for example, locations santed preparation this areings, simultaneous		marine geology, oceanography	
			once installation is completed, table corrects are likely to rapidly dispuse the suspended			and physical processes.	
	1		sediment (i.e., over a period of a few hours, or the absence of future sediment input."	As atting earlier, we are advise the the correction-based and CWF model plans			
						68 - The assessment of	
						sediment dispersion in the water	
						column due to seabed	
						preparation for foundation	
						installation that was completed	
						at Five Estuaries Wind Farm has	
						been added for supporting	
						evidence. The total volume of	
						sediment released during	
						seabed preparation was	
						estimated as 1.19Mm3 which is	
						conservative compared to the	
						estimated release of 1.14Mm3 at	
						North Falls, and so the results of	
						the Five Estuaries assessment	
						is conservative and a good	
						analogy.	
						69 - The Project does not now	
						overlap with KKE MCZ (for more	
						information see document	
						reference 7.3).	
						Data on SSCs released at Five	
						Estuaries Wind Farm have been	
						used to support the conclusion	
						that tidal currents are likely to	
						rapidly disperse the suspended	
						sediment (over a period of a few	
						Sediment (Over a pendu di a lew	
						hours) in the absence of further	

			sediment input. Five Estuaries concluded that after about 24 to 48 hours following cessation of activities there would be no measurable change from baseline SSC. Hence, the need to map plume extent and persistence would not add any meaningful information for the impact assessment because the longer-term outcome once the sediment supply from cable installation has ceased, would be cumulative concentrations at background levels.	
NFOWFS3_049_047_040723	Maurice Englated's Kiny Maurice England's Africa.	Marine Geology Oceanography and Physical Processes	See above.	N

NFOWFS3_049_048_040723	Annex 2 Annex 2. Benthic and Intertidal Ecology In formulating these comments, the following documents have been considered: • Chapter 1 Introduction • Chapter 2 Need for the Project	Benthic and Intertidal Ecology	Noted.	N
	 Chapter 4 Site Selection and Assessment of Alternatives Chapter 5 Project Description Chapter 6 EIA Methodology Chapter 10 Benthic and Intertidal Ecology Schedule of Mitigation Habitats Regulations Assessment: Draft Report to Inform 			
	Appropriate Assessment Habitats Regulations Assessment: Draft in Principle Compensation Options Review Report to Inform Appropriate Assessment: Appendix 1 Habitats Regulations Assessment Screening Report. Marine Conservation Zone Assessment: Preliminary MCZA Stage 1 Assessment			
	Marine Conservation Zone Assessment: Appendix 1: Screening Report Marine Conservation Zone Assessment: Appendix 2: Biotope Sensitivity Ranges Marine Conservation Zone Assessment: Appendix 3: In Principle Measures of Equivalent Environmental Benefit Review.			

NFOWFS3_049_049_040723	Natural England's Advice and Recommendations A summary of Natural England's advice in relation to Benthic and Intertidal Ecology is set out in Table 1. Our key concerns along with recommendations are presented below and further detailed in Table 2. Natural England's Key Concerns 1. Consideration of Kentish Knock East Marine Conservation Zone (KKE MCZ) Natural England advises that every effort needs to be taken to reduce the impact of the alone effects of the project and the contribution made to any existing pressures/cumulative impacts, such as benthic trawling and dredging (including scalloping). The subtidal mixed sediment and subtidal course sediment features already have a recover conservation objective and we are concerned that further impacts could take the site further away from meeting its conservation objectives. As a worst-case scenario, it has been assumed that 10% of North Falls infrastructure could be located in the section of the south array that overlaps the Kentish Knock East MCZ. Whilst it is stated that the during operation there would only be a habitat loss of 0.64km2 which equates to 0.66% of the total MCZ., we note that in relation to the features of the site this could be between 0.86 and 8.68%, should all the projects infrastructure be placed on one feature. Whilst the spatial extent of the area impacted by the North Falls may be small relative to the MCZ as a whole, when this is considered alongside other pressures at a feature level this has the potential to become more significant. We advise that these pressures should be fully considered in the cumulative impacts assessment. Please see Appendix A to this document in relation to: • Hornsea Project Three's (HP3) during examination commitment to remove all infrastructure from within Markham's Triangle MCZ. We would welcome such a commitment for this project, but if the Applicant considers that this is not a viable mitigation measure then robust justification will need to be included within the Application submission documents as to why.	Benthic and Intertidal Ecology	Site Selection and Assessment of Alternatives	Noted.	N

	Measures of Equivalent Environmental Benefit package provided should the Application continue to have infrastructure within the MCZ.		

NFOWFS3 049 050 040723	Turbine foundation scour prevention and	Infrastructure	Project	Noted.	N
	array/interconnector cable protection	and Other	Description		
	We understand that it is possible that inter array cable	Users	·		
	protection could be required in KKE MCZ. Therefore, we				
	advise that a cable burial risk assessment and a KKE MCZ				
	Infrastructure Specification, Installation and Monitoring Plan				
	(ISIMP) is provided as part of the Application.				
	Should cable/scour protection be required within the site we				
	advise that the placement of this within benthic MCZ's				
	should be considered a lasting impact over the lifetime of				
	the project which is potentially irreversible. Unless it can be				
	demonstrated otherwise, the scale of impacts is likely to				
	hinder the conservation objectives of maintaining subtidal				
	sand in favourable condition and recovering subtidal coarse				
	sediment and mixed sediment to favourable condition.				
	These features cannot be recovered to favourable condition				
	whilst cable protection is in situ, and potentially beyond due				
	to removal implications. The placement of other hard				
	substrate, such as filter layers to support gravity base				
	foundations, the turbine foundations themselves (including				
	all foundation options) and any other hard substrate placed				
	during turbine installation or maintenance would similarly be				
	considered likely to hinder the conservation objectives.				
	All options should be explored by North Falls to avoid,				
	reduce and mitigate the impacts from the placement of				
	cable/scour protection including (but not exclusively),				
	reducing the area of impact, reducing the number of cables,				
	reducing cable crossings within designated sites,				
	minimising the cable protection requirement along the cable				
	length within the MCZ, modifying cable installation, avoiding				
	placing cable in fisheries byelaw areas, adoption of the				
	reburial hierarchy and using cable protection which has the				
	greatest likelihood of successful removal.				
	However, experience from projects to date is demonstrating				
	that mitigation measures are unlikely to completely remove				
	the need for cable protection over the lifetime of the project.				
	We note that presently, post installation evidence is not				
	sufficient to remove all reasonable scientific doubt that				
	there the conservation objective would not be hindered from				
	the placement cable protection over the lifetime of the				
	project. The Secretary of State decision for Hornsea Project				
	Three, Norfolk Boreas and Norfolk Vanguard supports this				
	position with a requirement to provide compensation				
	measures.				
	As the current proposals include the potential for turbine				
	placement within the MCZ we consider that an assessment				
	of the potential for successfully fully decommissioning (i.e.,				
	complete removal of all placed infrastructure) should be				
	provided. This should include all cable protection and scour				

preve turbir other	ention, any filter layer or other material placed for ne installation, the foundations themselves and any r material placed during the lifetime of the project.		

NFOWFS3_049_051_040723	Benthic mitigation measures	Benthic and	Site	Noted.	N
	We note that the proposed Measure of Equivalent	Intertidal	Selection		
	Environmental Benefit Assessment is incomplete as	Ecology	and		
	mitigation measures have not been fully explored. Natural		Assessment		
	England advises that		of		
	the impacts on benthic ecology could be avoided, reduced		Alternatives		
	and mitigated by implementing (but not exclusively) the				
	following mitigation measures: -				
	Avoid all infrastructure within the Designated Site (KKE)				
	MCZ) – e.g., Hornsea Project Three removed all				
	infrastructure from Markham's Triangle MCZ, which was				
	also situated within their red-line boundary for their array.				
	We would encourage North Falls to consider shared				
	infrastructure with Five Estuaries OWF project to minimise				
	environmental impacts, whilst maintaining a route that				
	avoids Margate and Long Sands SAC.				
	Reduce number of export cables though use of HV/DC				
	system or coordinated approach with other projects – e.g.,				
	Norfolk Projects				
	Reduce the number of cable crossing within a designed				
	site to avoid the requirement for cable protection – e.g.,				
	Hornsea Project Three				
	Reduce the number of turbines/substations and therefore				
	inter array cables and associated protection within the				
	designated site				
	• Reduce the footprint of the turbine structures within the				
	MCZ i.e., consider not using Gravity Base Structures in the				
	MCZ				
	Cutting and removing sections of disused cables to avoid cable crossings – e.g., Norfolk Projects				
	Micro siting cables/turbines around reef and other features				
	of ecological importance – All projects post Lincs OWF				
	consent 2008				
	Sandwave levelling to reduce risk of free spanning cables				
	and requirement for external cable protection –All projects				
	since 2016 have included an element of this				
	Adoption of the reburial hierarchy with external cable				
	protection being last resort – all projects				
	Pre-consent – finalise cable burial risk assessment using				
	Geotechnical data to focus cable protection requirements to				
	areas where cables are likely to be sub-optimally buried				
	e.g., mixed sediment – All projects since Vanguard				
	Use of guard vessels and/or advance mapping to avoid				
	sub-optimally buried/surface laid cables negating the need				
	for physical cable protection e.g., Lincs cable in the Wash				
	Requirement to install cable protection with the minimal				
	footprint e.g., pinning – The Wildlife Trust (TWT) cable				
	corridors work				
	Requirement to install cable protection and scour				

	prevention with the greatest likely of removal e.g., rock bags. Example Norfolk Projects No use of jack up barges along export cable routes through benthic designated sites – e.g., Norfolk OWF projects No cable protection in any fisheries byelaw areas to avoid hindering recovery of ecologically sensitive features such as Annex 1 Reef, noting that cable may still go through the outskirts of these areas – e.g., Norfolk Projects Detonation of Unexploded Ordnance (UXO) outside of designated sites to avoid the creation of a crater – suggested for Sheringham Shoal and Dudgeon Extension Projects (SEP and DEP)			
	 Detonation of Unexploded Ordnance (UXO) outside of designated sites to avoid the creation of a crater – suggested for Sheringham Shoal and Dudgeon Extension 			
NFOWFS3_049_052_040723	4. Determining EIA Impact Natural England notes that the approach to the EIA assessment is proposed to align with other OWF Nationally Significant Infrastructure Projects (NSIPs). This matrix approach has been used throughout Environmental Statements (ESs) to date to support the assessment of the magnitude and significance of impacts. Natural England notes numerous instances where significance has been presented as a range (i.e., slight, or moderate, or large) and it is nearly always the lower value that has been taken	EIA Methodology	Noted.	N

	the lower value in a rang the higher value should a ensure that impacts on fe	of evidence to support the use of e, Natural England's view is that always be assessed in order to eatures have not been incorrectly ssessment. This is in line with the e envelope approach.			
NFOWFS3_049_053_040723	Table 1 Summary of Key Issues - Benthic and Intert		Benthic and	1 - The array area has been	Υ
NI CVVI 65_645_655_640125	Manufact inclinate access that every infort records to make the shador the following interesting receiving before make to shador the following interesting the shador that following interesting the shador that following the shador in the MEET to control or polystematic provision to the MEET to committee the shador provision that the following provision that the following the shador of th	Annual original divisions that the normal state of page decreased action the Extracrometric Divisions of CEL IV separate states the Extracrometric Divisions of CEL IV separate states that separate of Extracrometric States are successful. Historial England actives that this should be fully addressed in the ES. Historial England will provide updated advice once this has been companied and updated actives that seems to receive the reverse of the ES. We advise that the Applicant reviews and committee that seems will consideration. We advise that the Applicant reviews and committee that the ES. We advise that the Applicant reviews and committee that the ES. We advise that didn't is provided in the ES regarding this point.	Intertidal Ecology	reduced in size and no longer overlaps the Kentish Knock East MCZ. Therefore, there will be no infrastructure placed on the seabed within the MCZ (document reference 7.3). This has been discussed with the Seabed ETG and agreed that provided there is no infrastructure in the MCZ, the conservation objectives will not be hindered and MEEB will not require further consideration. 2 - The MCZ Assessment (document reference 7.3)has been included as a standalone assessment to ensure it considers the specific requirements of the Marine and Coastal Access Act 2009, and this approach has subsequently been agreed with NE. The array area has been reduced in size and no longer overlaps the Kentish Knock East MCZ. 3, 4, 5 - The array area has been reduced in size and no longer overlaps the Kentish Knock East MCZ. Therefore, there will be no infrastructure placed on the seabed within the MCZ (document reference 7.3). This has been discussed with the Seabed ETG and agreed that provided there is no	

conservation objectives will in be hindered and MEEB will in require further consideration. 6 - The impact of SSC is considered temporary throughout the relevant chapt of the Environmental Stateme Please see Section 10.6.1.2, Section 10.6.2.3 and Section 10.6.3.2 of Chapter 10 (Benth and Intertidal Ecology). 7 - The array area has been reduced in size and no longer overlaps the Kentish Knock E MCZ. Therefore, there will be infrastructure placed on the seabed within the MCZ (document reference 7.3). The has been discussed with the Seabed ETG and agreed that provided there is no infrastructure in the MCZ, the conservation objectives will in be hindered and MEEB will in require further consideration.	es t. es st o
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NFOWFS3_049_054_040723	We advise further investigation of the possibility of sharing the offsize export case infrastruction with Five Equations orbitation and control of the possibility of	Benthic and Intertidal Ecology	8 - The North Falls offshore cable corridor route remains outside of the Margate and Long Sands SAC. The potential for sharing offshore infrastructure with other projects is being explored. See Section 10.3.2 of Chapter 10 (Benthic and Intertidal Ecology) for further information on the optionality included in the Application, in relation to the transmission infrastructure. 9 - The impact assessments (Section 10.6 of Chapter 10, Benthic and Intertidal Ecology) have been revised to reflect the localised impacts. Where appropriate, post- construction survey data from the nearby GWF has been used
			construction survey data from

FOWFS3_049_055_040723	Table 2 Natural England's Ke	y Advic	e and Recomme	andations - Benthic and Intertidal Ecol	PRY		Benthic and	10 - The North Falls offshore	Υ
	Natural Empland's Key	Natu	al England's Adv	ice .			Intertidal	cable corridor route remains	
	Section 42 Preliminary Environmental Information Report (PEIR)	NE Ref	PEIR RU	Comment	Recommendation	Risk (RAG)	Ecology	outside of the Margate and Long Sands SAC.	
	Project Parameters, Document	rat Usedi	Chapters 1 & 5			_		Salius SAC.	
	Project Parameters, Document Pruyed Description.	10	PEIR Cruster 1 Introduction 1.3 Co-operation — to other proper 5 Project Description 5.6.16 Obstone	We advise that bermic habitine should be returned to drigned pri-model structure and function were reasonably practicable. Leaving artificial structures such as supported or expired colors, than the progress to an intellige produce commission or expired colors.	allow for natural recovery of the impacted			The potential for sharing offshore infrastructure with other projects is being explored. See Section 10.3.2 of Chapter 10 (Benthic and Intertidal Ecology) for further information on the optionality included in the Application, in relation to the transmission infrastructure. 11 - The array area has been reduced in size and no longer	
					possible			overlaps the Kentish Knock East MCZ. Therefore, there will be no infrastructure placed on the seabed within the MCZ and the colonisation of substrate within the MCZ is not a concern.	
								The detail and scope of the decommissioning works will be determined by the relevant legislation and guidance at the time of decommissioning and will be agreed with the regulator.	
								Decommissioning arrangements will be detailed in a Decommissioning Plan, which will be prepared in accordance with the Energy Act 2004. An assessment of the worst case scenario for decommissioning	
								works is provided in Section 10.6.3 of Chapter 10 (Benthic	

	Natural England's Key	Nati	MENDANG'S ADV	rice		Benthic and	12 - The assessment of likely	N
S3_049_056_040723	Section 42 Preliminary	NE Raf	PEIR Ref	Comment	Recommendation Risk	Intertidal	significant effects is based on	IN
	Environmental Information Report (PEIR)	Raf			(RAG)			
		12	5725 Assessment of	The Matrix approach used creates a comparativity vague and peneratial	This matrix approach has been used birruphout ESs to date to export the	Ecology	expert judgement, guidance, the	
			significance-	evaluation of impacts/essessment of significance and intes not in some	assessment of the cragostude end significance of imparts. Natural England		approach outlined in the North	
				Vicidences, have the individual robustness.	roles numerous instances where aignificance has been presented as a range		Falls Scoping Report, and	
				resided to fruly evaluate a significant effect.	(i.e., slight, or moderate, or large) and it is centry always the lower value that has been		consultation through Scoping	
					taken forward. In the adsence of evidence to support the use of the lower value in a		Opinion, Evidence Plan Process	
					cargo, Nedural England's view is that the righer value about always to assessed in		and Section 42. A matrix	
					order to ensure that impacts on features have not been incorrectly screened out of		approach has been used to	
	Baseline Charecterisation- D	Jocument	a) Used: Chapter	10 Benthic and Intertidal Ecology and Figur	futior assessment		guide the assessment. Further	
	Survey Date Acquestion	1)	Pare 251. Magnitude of	When comparing to the whole North See the scale imsects may will be	ive etime more censi and evaluation inculti be privalist regarding the localised		information is provided in	
			ILIDACI.	comperativery negligible however at this is a localised project in more localised scale	inpact.		Section 10.4 of Chapter 10,	
		14	Figure 10 1	should be applied dustification as to reduced sempling effort	More reformation required as to why a low			
		ľ	Sediment Sample Locations at	across the north away, along with only one notable sampling location across the Interconnector Cable Counts:	sampling effort was carried and in these locations. Was appropriate power analysis used when pelentiming sampling effort?		Benthic and Intertidal Ecology.	
			North Falls.		We seek clarity on whether appropriate		The assessment of effect	
					power analysis has been used after determining sampling effort and if so, this needs to be samed as there is a risk of		significance is based on the	
					under sampling. Furthermore, a percentage of effort to area could be utilised allowing		realistic worst case scenario and	
			_		The company of the control of the co		is described in Section 10.6 of	
							Chapter 10, Benthic and	
							Intertidal Ecology.	
							13 - The impact assessments	
							(Section 10.6 of Chapter 10,	
							Benthic and Intertidal Ecology)	
							have been revised to reflect the	
							localised impacts.	
							4.4 This control of	
							14 - This was a site	
							characterisation survey and is	
							characterisation survey and is not a baseline for monitoring,	
							characterisation survey and is	
							characterisation survey and is not a baseline for monitoring,	
							characterisation survey and is not a baseline for monitoring, therefore there is no hypothesis to test with a power analysis.	
							characterisation survey and is not a baseline for monitoring, therefore there is no hypothesis to test with a power analysis. Also following feedback on the	
							characterisation survey and is not a baseline for monitoring, therefore there is no hypothesis to test with a power analysis. Also following feedback on the PEIR, the northern array and	
							characterisation survey and is not a baseline for monitoring, therefore there is no hypothesis to test with a power analysis. Also following feedback on the PEIR, the northern array and interconnector have been	
							characterisation survey and is not a baseline for monitoring, therefore there is no hypothesis to test with a power analysis. Also following feedback on the PEIR, the northern array and interconnector have been removed, therefore sampling	
							characterisation survey and is not a baseline for monitoring, therefore there is no hypothesis to test with a power analysis. Also following feedback on the PEIR, the northern array and interconnector have been removed, therefore sampling effort in these locations is no	
							characterisation survey and is not a baseline for monitoring, therefore there is no hypothesis to test with a power analysis. Also following feedback on the PEIR, the northern array and interconnector have been removed, therefore sampling	
							characterisation survey and is not a baseline for monitoring, therefore there is no hypothesis to test with a power analysis. Also following feedback on the PEIR, the northern array and interconnector have been removed, therefore sampling effort in these locations is no longer relevant. Power analysis will be	
							characterisation survey and is not a baseline for monitoring, therefore there is no hypothesis to test with a power analysis. Also following feedback on the PEIR, the northern array and interconnector have been removed, therefore sampling effort in these locations is no longer relevant.	
							characterisation survey and is not a baseline for monitoring, therefore there is no hypothesis to test with a power analysis. Also following feedback on the PEIR, the northern array and interconnector have been removed, therefore sampling effort in these locations is no longer relevant. Power analysis will be considered in establishing the	
							characterisation survey and is not a baseline for monitoring, therefore there is no hypothesis to test with a power analysis. Also following feedback on the PEIR, the northern array and interconnector have been removed, therefore sampling effort in these locations is no longer relevant. Power analysis will be considered in establishing the post consent monitoring strategy	
							characterisation survey and is not a baseline for monitoring, therefore there is no hypothesis to test with a power analysis. Also following feedback on the PEIR, the northern array and interconnector have been removed, therefore sampling effort in these locations is no longer relevant. Power analysis will be considered in establishing the post consent monitoring strategy and an in-principle monitoring	
							characterisation survey and is not a baseline for monitoring, therefore there is no hypothesis to test with a power analysis. Also following feedback on the PEIR, the northern array and interconnector have been removed, therefore sampling effort in these locations is no longer relevant. Power analysis will be considered in establishing the post consent monitoring strategy	

IFOWFS3_049_057_040723	Hannet Emplant's Key	New	uni Engined's Ar	dvice	and the same of		Benthic and	15 - DDV was acquired at all	N
OWI 00_043_007_040720	Section 42 Proliminary Environmental Information Report (PER)		PEIR Ref	Comment	Recommendation	Risk (RAG)	Intertidal	stations in the survey.	14
		П			to compariors sampling effort over inculture of rithered sort Acutanisally, we advise any proposels are sente checked, with the results from Geophysical Survey.	ī	Ecology	This was a site characterisation	
		15	General Convisent	to sealon to the after appoint surveys conclusion feature. Engined have the figure and communities. • The addition of Simple Commission of Display and the faith feature of the communities of the communi	Transcal Inspired admission of DDV in addition to Utilisation of DDV in addition to Utilisation and DDV in addition to Utilisation in the Utilisation of DDV in addition to exercise the admission of the ODV in addition of the Utilisation of Utilisa			survey and is not a baseline for monitoring, therefore there is no hypothesis to test with a power analysis. The sampling strategy was developed in consultation with Natural England and the	
	Methodology	18	General	Chapter 10 Benthus and Internital Ecosory as Cell-man of Improper, needs to the clarity deman all mes can be always for telemental or the scale of expective telementary of the scale of expective man Physical telestrance and company, and improve all the properties design generations and decommendative man of the propert	of Figures (Volume II). An exacular on bow key species and surgest air responsibly process and surgest air responsibly produced variety cases developed shock the modelled using basedine darks, another prop knowledge of the surgest years and scrapping processes. This preclaimed material residency wheat there are managed as desired regarding the surgest sacres that the same dark dark of the state of the same dark of the state of the same dark of			MMO. 16 - Further context has been provided to the impacts	
	HRA - Document Used: Oral	it Report to							
	Screuning	17	- Communi -	Nature Engand has no common to make on the accoming	NA			imposing a temporary effect on	
								considered throughout Section 10.6 of Chapter 10 (Benthic and Intertidal Ecology).	

FOWFS3_049_058_040723	Material Frightnahe Kery Considerations	100	of Englants &	dvo	0.000	Benthic and	The Project's PEIR boundary	no N
1 0111 00_0 10_000_0 10120	Section 42 Preliminary Environmental Information Report (PEIR)	NE Ref	PEIR Rat	Comment	Recommendation (RAG)	Intertidal	longer overlaps with the MCZ	<u>7</u> .
	Assessment	18.	Conseni Conseni	relation to assessing impacts on Annex I	We advise up to date data is used to othern the basis of a charge a robust assessment and to crossre confidence in the conditions	Ecology	See the Marine Conservation Zone Assessment Report	1
		10	Fat 210	habitati suring continuation. Hall Accurate Hailizata Elizaria is content that Accurate Effect on integrity (AGO) can be excluded for Margate and Long Sends Special Area of Conservation (M.B. SAC) cryy'd the export callor is made (690) or receive and from this Greighabid with boundary.	route boundary as the project is refined, and up-to-date date is included. We will arroyde pur final advise one the last bean		(Document Reference 7.3) for more information.	or
		36	Section 5.1	Present note that the Conservation Advice package for MLS SAC is currently under three.				
	MCZ Assessment, Document	Used: Ma	rine Conservati	Son Znne Assessment: Preliminary MCZA Sta	age 1 Assassment			
	Screening	21	Figure 1,1	Neuran England notes that avoidance of infrastrutture is possible within the KKE MC2 (including a soluble fulflery	Nature Engand advises that the needs to be fully addressed within the Environmental Summers (ES). We provide account to that placement of infrastructure within the ACE MCC is wooded.			
		22	Table 3.1	Natural England edvices that our TER table to enter the scope of its committees. The scope of its committees. The scope of its recipies of the scope of its belowed.	Information on ausersing Yestural England a best precision guidence can be found in the main leader.			
		23	Figure 6.1	We advise that the figure is (ad of state For example, EA1N and EA2 are both constituted.	We advocated the the incodered to reflect the current shuston			

FOWFS3_049_059_040723	Natural England 9 Key Considerations	Neige	U Empand's A	Pice			Benthic and	Noted.	N
	Section 42 Presiminary Environmental Information	NE Ref	PEIR Auf	Comment	Recommendation	Risk (RAG)	Intertidal		
	Report (FEIR)	ì	Fgur41	We note that the zone of potential ficult carried offluence overlaps with Rendah Necek Case McZ. Order Instinct National Statistics McZ. We note that Don't Falls have not crimitate any propost specific way to provide the company of the carried any other way observe modeling. The proposition of the contraction of the proposition instinual primars in the remains of	appropriatement of any screen registering suspended sediment concentrations.		Ecology		
	Assessment	25	Pare & Table 21	modeling from previous projects Natural England advises that currently the optimid National Policy fitatements (NPS) are draft.	We advan that until financed the existing NPS should be used to any consciousion of the project's potential impacts.				
		28	27.12	Name England Ingraying his recess 5.65 decision in resision to nomine Project 5. North Variguard and Brissis that Impact from infrastructure and cable projection peers if temporal law belon considered a	We advise the Approant to uptime then				
		27	Table 4.1	issuing inqued. We down your attention to the last of, termine uninquities remaisses in the first or the start of the Armer. We account that off these tempoton researches are tuly estated within the Kennich Knook Sast.	We advise the developer scale further total review with National England on this expectated aspect of the application.				
		25	Para 46	(IOXE) MCZ. Natural England notes that UKO clearence. Tes set been included in site presention.	Natural England recommends that the assessment is updated to include this.				
		29	Para 47	MOVES Natural England afforcity advices that should it be demonstrated that avoiding a the AKE MCZ is not possible than the	Natural Empaird advises trult the developed should clearly demonstrate how they have				

WFS3_049_060_040723	Katural England's Key	Neur	rai Eigland's A	lvice			Benthic and	Noted.	N
	Section 42 Preliminary Environmental information Report (PEIR)	NE Ref	PEIR Ref	Comment	Recommendation	Risk (RAG)	Intertidal Ecology		
				Miligation Hierarchy is adopted to minimise the benths impacts	includes removal of Gravity Base Structures (GBS) from the Roomstee Envelope				
		30	Para 49	Natural England adverse that as with the most recent OWF applications, a calcie	We advose that this should be presented in the ES and that the CBR assessment should be based on relevant geotechnical survey data.				
		31	Table 5.2	It is not clear how the per-construction surveys oform the miligation measures and marino licence discharge.	We arrive that carry is provided.				
		32	Table 5.2	Natural England notes that the potential area of impact to NKE MCZ is 0.64km ²	We active that the Project reviews the feedings in relation to the projects specified and reconsiders their own findings in light of this. We advise consonation smouth be given in the first instance to evoiding constitution within the MLZ.				
		п	Table 5.2	Natural England notes that drill aniangs are refreshed in the MCZ Assessment, but the Impacts these on KKE MCZ are not recaded alone and/of cumulatively.	Assessment is revised to consider drill				
		34	Section 8.7		We solves that the Appropria consults the list provided above				
		35	Section 8		We advise that maps are provided in an updated assessment.				
		36	Para 167	Natural England advises that impacts to each of the interest features are considered when undestaking	We advise that the assessment is updated accordingly				

estidentions ection 42 Preliminary evironmental Information		re Engund's Ad	nce			Benthic and		Noted.	N				
part (PEIR)	NE Raf	PEIR Ref	Comment	Recommendation	Risk (RAG)	Intertidal Ecology							
	П		assessments, rather than comparing to the whole stills.										
	T)	Table 8.3 and Para 174	Netural England various that from review of current post construction benthic wowleting reports, that if the required integration measures are incorporated who the project design, then recovery is more	annowers leveling can be utilised to phlernally avoid impacts from cable protection. Natural England advises that this is adequately assessed and presented.									
	38	Pace 173	Natural England advises hat the Advise of Openitions IAO/I reductes one updates to take account of evidence form pod consenction monthing. Natural England access that evidence is centrententing that either Hobbornos lectrice MCZ solling actis have been created by OPF state restriction. Therefore, we are unable to agree with the recovery forefarmes as presented. Natural England asso advised and within evidence located within the work Water (Horotok-East Mathonas) is has been demonstrated on multiple occupion hat most sections of the properties promising business contains and the need for polymaily business cables and the need for polymaily business and the need for polymails business and the polymails and polymails business	Natival England advises that options to avoid this risk should be progressed and									
	39	Para 173	It is not clear from the documents where the lasting impact from cable protection will	We advise that this is included within the assessment									
	40	Para 175	Natural England advises that the Greater Galbland Offshorn Windfarm (GGOW) monitoring reports used to support conclusions down are provided as part of	and ment recovery for each sadment type and essociated impact. We solve further									
		38		Pare 174 of current post-construction benefits which we shall be project to the first inquired infligible inmensions are incorporated into the project design, their incorporate in their incorporate in the project design, their incorporate in the project design, their incorporate in the project incorporate in the project in the project incorporate in the project in th	Para 174 of current post construction bendular medical profession and profession and profession and profession and profession measures are increased in the profession removary an environmental of control of the profession. Natural Registration and students and substants. 38 Para 173 Natural England advises that the Advises on Operations (Activation and Students of Control of Para 173 Natural England advises that the Advises on Operations (Activation and Students of Control of Para 173 Natural England advises that operated by CMF cacket Institution and Control of Para 173 Natural England asks advises that whether the Advises on Operation to the Para 173 Natural England asks advises that whether the Advises on Control of Para 173 Natural England asks advises that whether the Advises on Control of Para 173 Natural England asks advises that whether were described by CMF cacket Institution to the Para 173 Natural England asks advises that whether were demonstrated on mattelier occurrents when the england asks advises that whether were demonstrated on mattelier occurrents when the parameters of the optimizing burden cattless and the need for cable protection. 39 Para 173 Natural England asks and the need for cable protection. 40 Para 173 Natural England asks and the need for the Institution of the Institut	Pare 174 of current post construction bentific monitoring reports, that if the inequires indigenous remouves per vicinory order of the project design, them recovery is more implication. The project design and project and operations of the project design and the project design and project on the project design and project virilled and project design an	Para 174 of current post construction bentific wheeling reports, that if the required influence in the project design, then recovery a more in the project design and failured in the project design and the project design	Para 174 of current post-construction bending whether the project consign, then recovery a more interested by current project consign, then recovery is more interested by current project consign, then recovery is more interested by current project consign, then recovery is more interested by current project consign, then recovery is more interested by the project consign, then recovery is more interested by the project consign, then recovery is more interested by the project consign, then recovery in more interested by the project consignation of constant on montanging and interested by considerating that within Holdman control MCZ studies interested by the project considerating that within an interested by CoNF studie interested by the project consideration in the water Walland England association in the more sectioned posts a risk of sub-opposition for the countries where the lasting injuryed more and the need to consider posts as and of sub-opposition water than the countries where the lasting injuryed more association in the countries where the lasting injuryed more association in the countries where the lasting injuryed more associated with the discussion of the project countries where the lasting injuryed more associated with the discussion of the project sub-opposition of the project s	Of country posts construction herefully working reports, filed The recipient infligation remains are incorporated into the propriet design, them conversely is more likely to use an efficiency according to the Advice on likely to use an efficiency advices that the Advice on Questioning According recording the Advice on th				

form Preferency Intal Information (R1)	NE Ref	PEIR Ref	Comment Impact recovery personanted words the		Risk (RAG)	Intertidal Ecology		
						LCOIOGY		
			different sediment types/habitatic in addition, clarity is required on how comparable this a with the activities/impacts for North Falls and the types of sediments impacted.	revening, as we understand that successes levelling was not used as part of the GGOW installation. We advise a clear assessment at required for KKE MCZ.				
	41	Section 8.2.1.4	Natural England cannot currently agree with the assessment of the effect on saddment strangent sturning construction. We note that North Falls have not collected any project opeopic wind wave-folking-content transport data. The project has instead helical on the ensuits of incidelling from previous opports. We not the North Falls south error has a different southed morphology propopatily in the Cestade California array and California.	effects at KKE MCZ. Please refer to our comments on Marine Physical Processes for furner information.				
	4Z	Section 8.2.2	In relation to Operational Impacts, National England index that the amount of and focation of clader ergels, resident more, anchorage and jack up vessel set within 8 2-year period (this is the recovery period interfect by the Applicants, and over the affective of the project is not specified within	to include theme parameters in the final advessment.				
	48	Para 128	Natural England advices that all surface laid infrastructure should be removed at the time of decommissioning unless evidence is provided to agree that it remains in situ.	We advise that the ES is adjusted accordingly, it should be noted that even with removal, the impacts over the lifetime of a project are still considered labeling.				
			42 Section 6.2.2 48 Para 128	any project-specific vierid wave-find bendament managery data. The project has natural visits on the results of trodailing from previous groepds. We note that the North fails south array has a juliarent sealard respecting hypotography in the Greater Gabbard array and Galapper routhern emay. 42. Section 6.2.2 in relation to Operational Impacts, Natural fingland notes that the amount of and sportion of other reper. warefinance, inchronage and jacks, oversient we will no 2-year pendig time from recovery pendi- identified by the Applicants, and over the lifetime of the project is not specified and financiared. 48. Petra 120. Natural England adverse that all areticle land himsburders should be removed at the time of decommissioning unless evidence is provided in agree that if	any project depotile, wind was referred to the project in the project has instituted intoids on the results of the project has instituted intoids on the results of the format and the both fall is south array than a different seated in inspirating fleptography to the Creater Gabburd arrays and Galbore recommendation of the control of Cabburd and Cabburd	any project depotile wind was without accomment transport data. The project has instituted intoids on the results of the project has instituted intoids on the results of the control of the North falls south stray has a different seated in inspirating fleatorspay for the Creater Gabburd arrays and Galloper in relation to Operational Impacts, National England ristes that the amount of and location of clader regist, membranes, and change and jacks, ovester like within 2-year period, their fleat regist, membranes after the season when it is updated to include themse purposed after the project of their project after the season when it is updated to include the season when it is assessment. 48 Para 128 Natural England delyses that all austable land inflaminations should be removed at the time of decommissioning unless evidence is provided to agree that if a project and safe considered stating accordingly. It should be noted that with memoul, the impacts over the lettine evidence is provided to agree that if an appropriate in with removal, the impacts over the lettine evidence is provided to agree that if an appropriate in accordingly. It should be noted that invention the provider and agree accordingly. It should be noted that invention the provider and agree accordingly. It should be noted that invention the provider and agree accordingly in special and accordingly in special and accordingly in special and accordingly.	amy project-ope-citic wind wavefollowed that the project has instanted heads on the results of t	were from the continuent manager of the The project has instituted valued on the restalts of incidently from previous griegics. We note that the Nevent Talls south array has a different evalued marphology theopopathy in the Greater Cabbarry Sarray and California Cabbarry Sarray and California in the Greater Cabbarry Sarray and California Cabbarry Sarray

FS3_049_063_040723	Natural England & Key	Nacu	rál England's Ad	vice	-		Benthic and	46 - The MCZ Assessment has	Υ
	Section 42 Preliminary Environmental Information Report (PEIR)	NE Ref	PEIR Ref	Comment	Recommendation	Risk (RAG)	Intertidal Ecology	been included as a standalone assessment to ensure it	
		44	Section 2.6 1	White Natural Englishs payees with the sonclusions, we do hell agree with the pationals provided and this will require	We advise that further information is previded to meanly deministrate and support the condusion.		Leology	considers the specific	
		45	Table 5.6	father consideration. National England advises that more evolutions is required before a cambia concluded that there will be no disruption to sediment transport and if there is, it will not further the consolvation objectives to the sale.	We advise that the Applicant refers to our making physical processes advice to update this assessment.			requirements of the Marine and Coastal Access Act 2009, and this approach has subsequently	
	MCZ Assessment Conclusion	n 46	General Comment	We are unable to agree with the conclusions of the MCZ Assessment and assistanced documents as they cannot and should not be considered as a standarone assessment as they do not lacture the required evidence to support the	Natural England advises that this should be fully addressed in the ES and advises the Applicant to engage further with us in this protocol market.			been agreed with NE. The array area has been reduced in size and no longer overlaps the	
	Measures of Equivalent Envir	ronmental	Benefit (MEEB)	conclusions drawn. Document Used: Measures of Equivalent En	rylronmental Benefit (MCZA Appendix 3)			Kentish Knock East MCZ.	
	MEED		(Para, 5) and Table 3.1 (Rel 5)	We acknowledge that INCE MCZ years designated after The Close Estate plans and the select PASA for extending regions in electromacounty for the select recorded better. Earlier However, a should be MCZ as med to template of the accessment, A the stress of template of the accessment, A the stress of template of increases projected from was transformed projected from was transformed to increase as a planning of an electrom the companion were understand to interest the project of the selection that companion were understand to accept the learning of automatical.					
				assessment. At the time of saving minimum projects there was insufficient observation and confidence to consider them as a plantyround to inform designations. In addition, the surveys to whom the designation were undertaken before the leasing of extensions.					

reli Enjaled 4 Rej didersions 1904 - Persimmary 1904 - Persimmary	47 47 AG	PER Net (Para 6.) Table 3.5 Ref: -12 and 14 General Comment	Comment We note that the asyon cable anothe assessment of the and bare due would assess and bare due would assess and bare due to see would assess and bare approach to the array within 1992 McZ. If you down your attention to the array within 1992 McZ. The Source of the Cody is relation to the service is a compression to deep service as a compression to deep service as a Compression to the McZ. Please see our comments on the Stage 5 are also not a fine that are also relevant to the comment.	tensins unchanged.	Intertidal Ecology			
	AG AG	Table 33 Ref -12 and 14 Section 4.4 General	amonymous ones and benefice we would served a writer aggridate to the array within KKE MCZ. We draw your attention to figure 1. The draw your attention to figure 1. The draw for the draw for the draw of the	Wy addressed in the Environmental Statement. The processive to carborate will be KKE Mc2 needs to be folly pastined and presented. We storrey where that the Applicant considers referring their project of the Applicant considers referring their project of the Applicant considers referring their project. Mc2 countery in the first instance. We always that the Applicant stores have det of their projects such as former integed 3, for which it was agreed that Maintains in Theory Mc2 exclude the significant stores and exclusion come, which all English doubt. Society of their engagement on the critical society with their engagement on the critical society. Mc2 exclude the desired engineers on the critical society and their engagement on the critical society. Mc2 except a public on the critical society and their engagement of the critical society and their engagement of th	o,			
	46	-12 and 14 Section 4.4 General	the Secretary of first (Set) in relation to debris remove as a compensation paging for the legisla Varia and and Boreas pro-sis. Please see our comments on the Stage 1 is a simple of which are also relevant to the document.	design principii Natural Englised's poelition on debris removal as subable compensation or MEEB remises unchanged.				
	di T	General	en amount of which are also relevant to this document.					
			Natural England notes that no one option for MEEP not been programed. Natural England have drawed through the ETS process and in our written responses, that this needs to be addressed prior to submission. It should be noted that recent declares by the SoS support our position.	We advise that the Applicant continues to ording to the Applicant continues to soot, rating out preference to no construction with KRE MIZ, which in lice with mitigation proposed for Hornsew Project 3 Clear published in Hornsyth the Applicant Clear Published In Hornsyth the A				
ural England's Key siderations tion 42 Preliminary fronmental Information ort (PEIR)			vice Comment	Recommendation Risk (RAG) should the Applicant wish to progress to MEEB, contrary to our activice.	Benthic and Intertidal Ecology		Noted.	N
tior iro	n 42 Preliminary Inmental Information	n 42 Preliminary NE nmental Information Ref	n 42 Preliminary NE PEIR Ref nmental Information Ref	142 Preliminary NE PEIR Ref Comment Information Ref Comment	142 Preliminary INE Ref Comment Recommendation Risk (RAG) PEIR) Should the Applicant wish to progress to	erations 42 Preliminary mental information (PEIR) NE Ref Comment Recommendation Risk (RAG) Should the Applicant wish to progress to	terations 42 Preliminary mental information (PEIR) NE Ref Comment Recommendation Risk (RAG) Should the Applicant wish to progress to	erations 42 Preliminary mental information (PEIR) NE Ref Comment Recommendation (RAG) Should the Applicant wish to progress to

NEOWEDS 040 000 010700	Access III. Access to the second leaves the second	D. all. Committee	0.00	Notes	N
NFOWFS3_049_066_040723	Appendix A - In relation to consideration of small-scale habitat loss within Marine Protected Areas with benthic	Benthic and Intertidal	Offshore Ecology	Noted.	N
	features in relation to cable/turbine foundation scour	Ecology	LCOlogy		
	protection Natural England provides the following advice:	LCOIOGY			
	1.1. Natural England will usually consider permanent, long-				
	lasting, and irreversible loss to be an adverse effect unless				
	it can be clearly demonstrated otherwise.				
	1.2. The following points should be considered (but not				
	exclusively) when providing evidence to underpin an				
	assessment of whether the conservation objectives are				
	likely to be hindered:				
	Location of the predicted loss in terms of whether it sits on				
	a designated or supporting feature of the site;				
	Duration of the loss – for loss to be considered temporary				
	it must be clearly time-limited to the point where the impact				
	is predicted to return to the same pre-impact condition and				
	must include a detailed remediation plan using proven				
	techniques as part of the licence; • Scale of the loss in relation to the feature / sub feature of				
	the site including consideration of the quality and rarity of				
	the affected area;				
	Impact on structure, functioning or supporting processes				
	of the habitat;				
	Feature condition; and				
	Existing habitat loss within the same site/ feature/ sub				
	feature.				
	1.3. Whilst there are no hard and fast rules or thresholds, in				
	order for Natural England to advise that the conservation				
	objectives have not been hindered the project would need				
	to demonstrate the following:				
	That the loss is not on the priority habitat/feature/ sub feature/ supporting habitat and/or				
	2) That the loss is temporarily and reversible (within				
	guidelines above) and/or				
	3) That the scale of loss is so small as to be de minimus				
	alone and/ or				
	4) That the scale of loss is inconsequential including other				
	impacts on the site/ feature/ sub feature				
	1.4. It is noted that Applicant's will argue that they have				
	provided the above information and provided the necessary				
	assessment and evidence. However, as set out in (C-				
	294/17 Cooperatie Mobilisation for the Environment UA and				
	Others v College van gedeputeerde staten van Limburg and				
	Others) and other case law relating to People over Wind				
	(2018) for a plan/project to be consented within a designated site there needs to be				
	sufficient certainty in the evidence presented and the				
	recoverability of the features and/or absolute certainty that				
	any proposed mitigation measures will remove an adverse				
	any proposed miligation measures will remove an adverse				

	effect on integrity. While this applies to sites designated under the Habitats Directive, the principles within the decision are still a relevant consideration for other designations and, therefore, do have implications for the NF project. 1.5. Therefore, we welcome any further work the applicant		
	can do to provide more certainty in relation to the Worst-Case Scenario presented and/or minimise the impacts as much as possible.		

differs to that used for other ecological chapters.	NFOWFS3_049_067_040723	Annex 3. Fish and Shellfish Ecology In formulating these comments, the following documents have been considered: • Chapter 11 Fish and Shellfish Ecology Document Reference Appendix 11.1 Fish and Shellfish Ecology Technical Report Chapter 11 Fish and Shellfish Ecology – Figures (Volume II) • Appendix 12.2 Underwater Noise Modelling Report • Appendix 12.3 Underwater Noise Technical Assessment Natural England's Advice and Recommendations A summary of Natural England's advice in relation to Fish and Shellfish Ecology is set out in Table 1. Our key concerns along with recommendations are presented in this table. Some additional summary comments are also included in Table 2. Please note the format of the comments in this section	Fish and Shellfish Ecology		Noted.	N
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NFOWFS3_049_068_040723	Table 1	Summary of Key Issues - Fish and Shellfish Ecology		Fish and	Noted.	N
	NE Kut	Summary of Key Concerns	National England & Recommendations to Resolve Issues. Risk	Shellfish		
	1.	fabored England distins to the expendite of Collan in reasons to that and shallow, where they are followers of releases to the oral shallowers associated with the feature of a designated for a print papers associated with the feature of a designated release. Adequate between comments of the designation produced by the control of the associated to research the absolute all any concerns.	We advise that Natural Enjance's comments are read in conjunction, with the advise of Calls. In should be made that Plazaria Enjand's renth offers to that of Calls - Natural Enjands is row in to advise on features and obsignables share in the Carlsial of the commission observes. To eliable has the sales fulfill their function and make their one protections in the Marine-Protection Areas (index)s. Calls of their is to be other the development implies reneally with the fish appointment as a whole. This country about the commission when the latenty the soften of the Carlsia should be commission when the latenty the soften of the Parallel England's RAG sating valents to our tents, and this may not high Makalar England's RAG sating valents to our tents, and this may not high reflect the exempt of air house when countlevent under Calls' irons.	Ecology		
	4	Outer Therene Extury Suprest Protection Annu (OTE SPA) as execupied in No	We advise that providing an exercise baseline, othering the trest weekstar and marine and service and sect, as key in the exercising of impacts or these species. Such endesce is also expand to intone the exercision of impacts on para availability for RTD in the Cartificiary Chapter and			
	4	statio dyster clother admiss and restric cycles close are stated of blackwiser. Coroum Resear, neither Estuares Marine Groservation Zone (MCZ), we note that these results are coroumned in the MCZ Assistential. However, we advise that in relation to suppressed admirest the assessment is related on distals within the marker glocking, concerngation, and physicial processes chapter. Until our concerns in the marker glocking chapter have been addressed, we comproposed comment or the appropriate resid of the discourse within the MCZ Assessment or the superposed resident of the control provide comment or the superposed of the control provide comment of the superposed of the control provided as to the further justification is provided as to well youth as opposed they destruction, the side is superposed in markers to the distriction of matter cystem, we advise that the additional of elementary provided by the Appropriate or the additional elementary provided by the Appropriate or the additional and the appropriate the additional and the additional and the appropriate the additional and the additional and the additional and the additin				
		Transmission Transmission of the Advance on the assessment				

OWFS3_049_069_040723	WE THIT	Summary of Kay Comcerns	Natural Engine & Recommendations (6 Beauty) (864). 2054	Fish and	Noted.	N
		within the site. It should be required that they are present in the area of the MCZ classes to the works spotsoon.		Shellfish		
	4	The registring presents decails, recording to finit design a feeing recording. Natural England advises that there as insufficient	Yield should be componed a lastonary receipt through all meaning and assessments in the submitted ES (Environmental Statement).			
		evisionize to eupport fish being a feeling receptor and mis-	and all the submitted Ext (Chipter French State (1911).	Ecology		
		consequently we would expect them to be considered a trationary receptor in all modelling and assessment. We note from the Chapter 11 has and sharrish is cology Figures.	We highlight that which there species are not designated features at the			
		(volume ii) that there is overlap with spewning grounds and nursery prounts to hering (rigure 11.2), and spawning grounds.				
		and nursery grounds for sand eel (Figure 11.4). We note that	Rival Communities Act 2006 (NERC), and both provide prey resources			
		Toble 11:14 incorrectly suggests. Spaining grounds of Downe Herring located in areas adjusted to the southern array area? as goposed to directly overlapping with it.	to either reception wich an RTD designated within the Onlin Thumas Eshumy BPA			
			We advise that both the Downs and Blackwaller having aparening seasons are recognized in this lable.			
		We note the wider study area comilacs with the accurance ground of the Transportific treatment ben'ng population However, Table 11.12 does not recognise their spawning season (between	ministry and recognising in the state.			
		February and May) Natural England defers to the view of Cefae in delegeing the	We arrow the Project seeks the advice of Calles on the committely of			
		sensitivity of the species identified, it is important that the markey of mach includes process in bottom with account of	particular species, and the appropriateness of the sametives assumed to			
		determining potential impacts upon them. This includes assessment and as time thought (and semaline stages within the middle and as	West agreement to mached on the markle processes classes, and the			
		spawning, when har can be in poor being condition, physiology, fieldful requirement for appearing sto. It is key to note that both	Number in an accompanion work auggested by Cartan has been carried aur. National Engiand would welcome the apportunity to comment on an			
		froming and sand sell are is delibered specific demonstral spewners. Intermetes them particularly tensitive to temporary or	reprinted minimentation in reaction that horning and sand ow. We asking that the further baseline work as advised by Cliffas is required.			
		pervision of charges in the perfection automate types that they use for aparating.	to further under more the potential direct loss of summering localist, which where intracting is placed is thele to be pirmanels.			
		Introvased Suppended Sectiment Concentration (SSC) and				
		eatherguint deposition of sediment on gravet horizing and that agos and larvae, and have the potential to inspact remainsivity (a)				
		speeming, which participantly reads to be consciously in section to the Opera Herring speeming sizes as this is potentially in the				
		The same state of the same state of the same state of the	-			

WFS3_049_070_040723	NE Ref	Summary of Key Concerns	Natural England's Recommendations to Recoive linears. Res	Fish and	Noted.	N
		direct footpart of the works. In retailion to temporary increase in: SSC and deposition please note our comments on the manne		Shellfish		
		processes chapter.		Ecology		
		Where there is overlap with the Cowns sowning area, we do				
		not agree that habital loss will be temporary, and the seabed will quickly recover to its original condition where inflinitruction has				
		been placed. This is because the habital type will have changed. Invelation to long-term habital tips, we advise this is permanent.				
		name than long agm. This is due to the smelliums of the development remaining in place and the lack of certainty all				
		infrastructure will be fentoved at decommissioning. We note the lack of substitle mapped modeling to relation to	We advise mapped recoving of 195db (SELas) is provided as part of the			
	1	behavioural responses, despite the presence of the Downs and Blackwater hering spawning grounds. We understant that	consideration of Impacts on the Downs and Blackware Henring speaning.			
		Cetas generally advise modelling a 135dB threshold for Sound	ene, and asked that the Appellat sections the factor with Care.			
		Exposure Level single strike (SELss) following Hawkins in all (2014) to product the range of effect for behaviours responses in				
	8	herring. We defer to Cefas in relation to the appropriate mitigation but	Take on board advice received from CEFAS regarding miligation			
		note that, based on the overspip country of the Downs himing spawning area. It is likely mitigation measures will rided to be	manages for the Cowins herrorg appearing area			
		further explored. Any mitigation proposed will need to be				
	9	accompanied by suitable invidence to demonstrate it efficiecy. In relation to cumulative effects, we note that this is a very busy.	We advise the Applicant seeks to continually update this assessment to			
		area for OWF, as well as subsea cables, aggregate dredging, and fishing activities such as trewling. All of these authillies	emure a robust and up to date list of projects is included at the ES stage. We note that further beginne characterisation and modelling, may lead to			
		should be considered in terms of the potential to act cumulatively with North Falls, as well as ongoing activities such as felbeires.	changes in the cumulative assessment and that therefore this will need to be contained.			
	10	Given that North Falls and Five Estuares appear to be on very	The submitted ES should clarefully assess the potential build oceranios of North Falls and Five Estumes on fish receptors to ensure that the Worst-			
		receptors from these projects occurring concurrently and	Case Scenario (WCS) is captured.			
1	_	tequentally are considered.		li e		

JVVES3 049 071 040773		y Comments - Fish and Shelffish Ecology	Fish and	Noted.	N
OWFS3_049_071_040723	Nh Summery of Consums	Material England's Passementations to Resolvy Insues		Noted.	"
	A cturty or referenced by Penus of its L2013. This just reliable to hereing and recipance to sometime and gun release to sometime and gun release. We activate that reference as it does not one appropriate as it does not not expressed as it does not not reliable. To paywering.		Shellfish Ecology		
	12 Maintail England Invasify supports the use of Propes all all (2014), which deserbes fast excepting to their hearing passabilities. By deliving theseroids for motivity and poliental mortal injury. We deles to Catala to more necessary.				
	13 We note the maps (Figure 11 is — 11.19) do mil stam the harmer-energy and pre- diameter used at the moduling.	You suite claimstan that he mooning mans are beset on the exist-case scenario in terms of treamum humme every and pile demotes.			

NFOWFS3_049_072_040723	Annex 4. Marine Mammals In formulating these comments, the following documents have been considered: • Chapter 12 Marine Mammals • Appendix 12.1 Marine Mammal Baseline • Appendix 12.2 Underwater Noise Modelling Report • Appendix 12.3 Underwater Noise Technical Assessment • Appendix 12.4 Unexploded Ordnance Clearance Information and Assessment • Appendix 12.5 Marine Mammal Cumulative Effects Screening • Draft Report to Inform Appropriate Assessment • Appendix 1 HRA Screening Report • Schedule of Mitigation Natural England's Advice and Recommendations A summary of Natural England's advice in relation to Marine Mammals is set out in Table 1. Our key concerns along with recommendations are presented in further detail in Table 2.	Marine Mammals		Noted.	N
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OWFS3 049 073 040723	Summary of Key Issues - Marine Mammais	Marine	1 - The ES and HRA have been	N
NE Field Summit 1 The set Districts 2 Air the that no that no the construction reset 2 Air the that no th	Summary of Key Desires - Marine Mammats means cause Contract (WCS) for Accused Desired red (MCI) Sub-Accused red (MCI) Sub-Accu	Marine Mammals	1 - The ES and HRA have been updated to include the actual required ADD duration to cover PTS (cumulative) ranges based on the current underwater noise modelling results. Further information on ADD durations is provided within the Outline MMMP (document reference 7.7). 2 - Natural England have been consulted on the Outline MMMP, which is submitted as part of the DCO Application (document reference 7.7). 3 - Both the South-East England MU reference population (30,592) and the wider reference population (South-East and North-East England MU populations combined, 56,505) of grey seals will be presented in the assessments within the ES (Chapter 12, Marine Mammals). As a worst case it is assumed that all seals are from the nearest MU, the South-East England MU, although the more realistic assessment is based on wider reference population which takes into account the movement of seals. The assessments provided in the RIAA are based on SAC population estimates rather than MU population estimates rather than MU population estimates. 4 - The in-combination assessment for the Southern	N

			5 - All potential mitigation measures are being considered, including noise reduction measures (such as bubble curtains), see the Outline MMMP (document reference 7.7) for further information.	
NFOWFS3_049_074_040723	Table 2 Natural England's Key Advice and Recommendations - Marine Mammals Name England's Asy Considerations Section 42 Preliminary Environmental Information Report IPERI Section 42 Preliminary Environmental Information Report IPERI Froject Parameters. Document(s) Used: Chapter 12 Marine Mammals Froject Parameters.	Marine Mammals	6 - The ES and HRA have been updated to include the actual required ADD duration to cover PTS (cumulative) ranges. The worst case ADD activation time is based on the current underwater noise modelling (see the Outline MMMP (document reference 7.7) for further detail).	N

NFS3_049_075_040723	Hatiral England's Ray	Natural En	planet's Advica-		Marine	7 - Noted.	N
. 00_0 .0_0 . 0_0 . 0 . 2	Section 42 Professory Environmental Information Report (PER)	NE PE	R Ref Communit	Recommedation Risk (NAC	Mammals		
	1,000,000		es is why such a short duration of ADD actives new Seem chosen as a WCS			8 - Noted.	
	Resulted Characterisation - D	occurrency) Users	Appendix 12.1 Marine Marimal Baseline				
	Survey Class Acquisitor	7 32	Nation Engant agree with the bur key market mammal indepthris identified	NA.		O This has been corrected; and	
		1. 12	(9) Natural England agrees with the Management Union (MUs) for the key month	- NA		9 - This has been corrected; see	
		1 10	5-80 The test prompting of testing of the	Clarify along a request on which figures are		Appendix 12.2, section 1.6.4.3	
		1.0	 59 partially common special and 6 squarement collected species, while the second states that a total of 23 seal species and 17 	saves).		(document reference 3.3.7).	
		0 20	edal small ordicoran apecies were recorded	WALL THE COURT OF THE COURT OF		(**************************************	
		10 146	le 2 Natural England overles whather partially loteralised species were emigred to any speace paragings for the purpose of	Whin environg the full auryey data, the Applicant should clearly present the results and satisfication on type uniquelitied apacies.			
			catching owners and abundance	nave been appropriate the approach to appoint the appoint of the control of the c		10 - A correction factor has been	
				this common with Nature England and to see of		applied to the harbour porpoise	
		Vi 90	in & Table Eindows that the loter reference	We solve dell'amon s'roublibe sroyood in		data to account for availability	
		114					
			reterence population for the assessment is 34.461. Thus, it is not clear from the text	The state of the s		bias.	
			which value will be taken forwing to the nationariest. Nature England artists that				
			the train population of both Seel Managem Links (SMUs) in being forward:	es .		No survey data has been	
						apportioned (i.e. no species	
						group data has been used within	
						the density and abundance	
						calculations), although note	
						there were a very low number of	
						'cetacean species (n=5) and	
						'seal/cetacean species' (n=17)	
						compared to the total number of	
						harbour porpoise (n=702);	
						therefore, would not significantly	
						alter the densities, see Appendix	
						12.2, Section 1.6.2.2 (document	
						reference 3.3.7).	
						11 - This has been amended in	
						Chapter 12 (Marine Mammals)	
						Section 12.4.3.3. Both the SE	
						MU reference population and the	
						wider reference population will	
						be used within assessments.	

FOWFS3_049_076_040723	Natural England's Key Considerations	Helw	ral England	a Advice	Company of the Compan	Marine		12 - This has been amended in	Υ
. 0111 00_0 10_0 10_0 10.20	Section 42 Preliminary Environmental Information Report (PEIR)	NE Raf	PEIR Ref	Gormant	Recommendation (RAG)	Mammals		Chapter 12 (Marine Mammals)	·
		12	13.6	The makinum turgens range of grey seas. 466km should be noted here as per Carter as at (2002)	Add the reference to the maximum foraging range of grey seals as per Carter et al. (2022).			Section 12.5.1.	
		ti	Comment Comment	AMMANG 2022 review has been used for information on Management UNIS. The most up to date UMANING result is 2000.	Line the 2022 update of Management State (NAMMYO, 2023) http://mak.prs.gov.uk/innes/fb48in9332 http://mak.prs.gov.uk/innes/fb48in9332			13 - This has been amended	
Environmental II	Environmental Impact Assessm	ment = Dec	carriertts) Lis	est. Chapter 12 Marine Mammada, Appendix 1	2.2 Underwater Noise Modelling Report, Appendix 12.3			throughout Chapter 12 (Marine	
	Underwater Noise Technical Ass Methodology	14	Table 12.2	12.5 Marine Mammal Cumulative Effects Scre The stated duration of the WCS ADO activation time is 10 instrumen Maximal Engines seeks justification as to why such a short duration of ADD activation has been chosen as a WCS.	Provide justification for the choses WCS for			Mammals) and relevant appendices.	
		15	Table 12.3	I'm in staried Table 12.3 this the ramp up would be minimum 20 orbitales, however the soft start dwarfers and secretarities and secretarities. This is not in including 15 the 15	The scientified E3 should be consistent regarding the challent durislate of soft start and ramp up.			15 - New proposed soft start and ramp up scenarios have been consistently applied throughout	
		H	Table 12.3	The Vensel Management Plan (VMP) should be laided as an embedded milegation in estation by expect collegery and. We achieve that specific best practice documents/upoclente to reduce any ratio of collegery and expected in the YMP Furthermore, National England advises that the VMP is included within the Project Environment Management Plan (PEMP).	Aud the VMP to the last of inventable intigualing area enture the in a schooling to PEAP to sover an isages of the project.			the ES (Chapter 12, Marine Mammals) and relevant Appendices.	
						measures are included v	16 - Vessel management measures are included within the Outline PEMP (document reference 7.6).		
								This is listed as mitigation within Section 12.8 of the ES Chapter 12 (Marine Mammals).	

VEOWES3 040 077 040722	Natural England's Key	Natural Engl	end's Advice		Marine	17 - A summany of the available	NI
NFOWFS3_049_077_040723	Homani England 's Key Contribution and Contribution and September of the Environmental Information Report (PER)	Neurol English Neur	Red Comment And best practice measures are follower or where to enterprise this impacts of minimises visited to enterprise this impacts of minimises visited presented on manne minimises at all stages of the approach proculage, operation-manchenines stages. Natural England is satisfated with the key data discuss used to inform the assessment. However, the inclusion of serving data fewer other Unit- in this state, would not contain the information on the prospects, approache and committee of manners manners in the Particle California vestiment for explicituation of the information on the prospects, approache and because whether the Include defence operations (EE England and ME England Said Management Units (SMU); or the SC England SMU (Spopulson with BF England Said Management Units (SMU); or the SC England SMU (Spopulson with BF England Said Management Units (SMU); or the SC England SMU (Spopulson with Spopulson SMU operation of ASS) for DE England SMU operations of ASS for DE England SMU operat	DWF surveys where signature	Marine Mammals	17 - A summary of the available (and relevant) survey data from other nearby offshore wind farms (namely Five Estuaries, Greater Gabbard and Galloper) is provided in Appendix 12.2 (document reference 3.3.7). 18 - Noted. 19 - Both the South-East England MU reference population (30,592) and the wider reference population	N
		2) Teorem 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	histural England agrees with the chosen	NIA The sub-ribbed ES oftend apply the month y precoudenessy approach by using winter		(South-East England and North-East England England MU populations combined, 56,505) of grey seals are presented in the assessments. As a worst case it is assumed that all seals are from the nearest MU, (the South-East England England MU), although the more realistic assessment is based on wider reference population which takes into account the movement of seals.	
						been updated throughout Chapter 12 (Marine Mammals) and appendices. 21 - Noted. 22 - Only the winter density estimate for harbour porpoise has been used to inform the magnitude of effects throughout the ES (Chapter 12, Marine Mammals). However, an assessment against all Relevant harbour porpoise densities has been provided in Appendix 12.4	

FOWFS3_049_078_040723 Marine Employed Market Key Consolated Section 42 Presentation New Consolated Information New Consolated	ut the ES ammals),
17.1, and an electronic parties that 1 a present the 1 a present that 1 a present the 1 a present that 1 a p	ppendices 5, 8.9 and ave e MMMP, art of the ment ion zone ed on as seen

FOWFS3_049_079_040723	National England's Reg Consultaresions	Hatiral England			Marine	26 - This has been included	N
	Section 42 Preliminary Environmental Information Report (PEIR)	NE PER Ret	Comment	Recommendation Risa (RAG)	Mammals	within the Outline MMMP	
	water (carry)	20 100	A clear definition of eath start and rang up, as			(document reference 7.7).	
		27 166	see as the decision and annexemble margare. Should be provided within the MAMP.	sion) pard ramp up and use from possessing across the boursents. We advise to reconsider the averages		,	
	-	100	We styling against that verse considerce should be considered as a mitigation measure to reduce the risk of mysy from	Intigation measures to reduce the risk of musy		27 - Proposed mitigation has	
		20 Table 12.37	The stated duration of the WGS ADD	the submitted ES. Provide justification for the chosen WCS for the suration of the ADC activision.		been reviewed, and the text has	
		1,23	amendon time is 10 minutes. Natural England sreaks justification as to ethy such a chort duration of ADO activation has been chosen	THE STATE OF THE PARTY OF THE P		been amended as seen in	
		90 405	ev a WCS. This paneproph recovers classication as obtained paradons of ADD activation were	Clarification a required on the duneron of ADO activation		Chapter 12 (Marine Mammals).	
		001 e30	The standard (e.g. 36 minutes and 10 minutes). The standard on Temporary Tirreshood Shift (TTS) from underwater wince being acreemed.	Conflication is needed on whether TTS is		Onapier 12 (Marine Mariniais).	
		10 100	out is in contradiction with Table 12 to, where it is stated ". The potential risk of TTS in	ponsidered as a potential cumulative effect. and full justification of screening decerons which the provided in the submitted Eff.		28 - The ES and HRA have	
						been updated to include the	
			mente mammas enn ouwaive arreps we ne considered elegate that of disturbance from underwater noise, and the highest known potential affect ranges (of elmer TTS as disturbance) will be used to the inform the	e e			
			The approach to accessing impacts in the cumulative effects assessment should be			actual required ADD duration to	
			should be provided for the screening			cover PTS (cumulative) ranges	
		31 (20)	decisions Justification is needed for the screening-out of an operational effects from the curriculative	We edvice revising the decision to screen out all operation effects from the contributive		based on current underwater	
	,			12.00		noise modelling. Further	
						information on ADD durations is	
						provided within the Outline	
						MMMP (document reference	
						7.7).	
						29 - The ES and HRA haves	
						been updated to include the	
						actual required ADD duration to	
						cover PTS (cumulative) ranges.	
						Further information on ADD	
						durations is provided within the	
						Outline MMMP (document	
						reference 7.7).	
						reference 1.1).	
						30 - Text has been reviewed and	
						amended to provide further	
						clarification over the effects that	
						have been screened into the	
						cumulative assessment, see	
						Section 12.9 in ES Chapter 12	
						(Marine Mammals).	
						31 - Further consideration has	
						been given for the potential	
						cumulative vessel disturbance	
						and vessel collision risk during	
						the operational and maintenance	
						phase of offshore wind farms.	
						See Chapter 12 (Marine	

JEOWES3 049 080 040723	Names Engineer & Coy	1945	oral England	a Advice		1	Marine	32 - The disturbance ranges	N
Section 6	matters Engineer a Say Sociality allows Section 4.2 Preliminary Environmental information Report (PEIR)	ME Ruf	PEIR Ref	Comman. designative Cover that force out be considered for the whole of the cover operation of the cover of the cover operation and interesting of the cover operation opera	figure is provided in the submitted ES to evolvence this conclusion	776	Marine Mammals	32 - The disturbance ranges indicate there is the potential for impact ranges between North Falls and Five Estuaries to overlap. Therefore the cumulative barrier effects assessment has been reviewed and amended in Chapter 12 (Marine Mammals) Section 12.9.3.2.	N
		R	124,1	essecuraci is provided for administration purpose only and that a reconstruction approximate with the subministration approximate with the subministration of the provided for the provided for the provided for a subministration of the Posture Accessor Maintaining (PMM) is considered as a	We roummend the use of PNM so a.			33 - Noted. 34 - The potential use of PAM has been considered and has been listed as a potential mitigation measure for UXO clearance. Further information is provided within the Outline MMMP (document reference 7.7).	

for the ES submission, as seen in Appendix 12.6 (document reference 3.3.11). Appendix Appendix

NFOWFS3_049_082_040723	Natural England's Rey	Mat	tunal England	rs Advice	2	Marine	38 - The soft-start and ramp-up	Υ
FOWFS3_049_082_040723	Constitutions Section 42 Periminary Environmental Information Report (PEIR)	- 100	PEIR Re	If yo to 4 pin piles can be included at two controls at follows that 2 pin years can be instanced at two controls at follows that 2 pin years can be instanced at each regarded in 2 pin years can be instanced at each regarded in 2 pin at solute for exhibited with the including. The Agricultural has noted that the elipsed variety from pin piles are greater than monopries booking of the sold start and ramp of mellipsets who can be sold that and ramp of mellipsets who can be sold start and ramp up mellipsets and become the hardy upon mellipsets and their best of start and ramp upon mellipsets there because and of whether these is and be variety in the Agricultural Start and ramp. The fulfill (and offers) living at the complete control of the mellipset of specific files in the little states that we control to the pin the little states that the pince when the little is the little states that the pince of the mellipset of the states and on monophies and very ramp frequency (VHF) estimations. States and on monophies and very ramp frequency (VHF) estimations is the states and very little states and the mellipsets of the states and the	The yeared to retail or require larges. Correct the test for the submitted ES to answer at a consistent and by covoids startly on whether we way that or unwarpled eS Sturm.	Marine Mammals	scenarios have been reviewed and the pin pile scenario amended to reduce impact ranges; see Appendix 12.3 (document reference 3.3.8). 39 - Appendix 12.3 (document reference 3.3.8) has been amended to correct to the table headings. 40 - Maximum PTS distance has been considered for the MMMP, 700m mitigation zone has been proposed, as seen in the Outline MMMP (document reference 7.7). 41 - The East location has been included within the latest UWN underwater noise modelling for simultaneous piling locations (Appendix 12.3, document reference 3.3.8).	Y

OWFS3_049_084_040723	Natural England's Key	Natio	rai England	s Adves			Marine	47 - This has been updated in	N
	Section 42 Preliminary Environmental information	NE Ref	PEIR Ref	Comment	Recommendation	Risk (RAG)	Mammals	Appendix 12.4 (document	
	Report (PEIR)	-				(mail)		reference 3.3.9).	
				The Applicant should review their position that the soft wert is 30 minutes, in relation to				· ·	
		47	Apperdia 12.3	The munder of pile strikes his two monopiles is incornect if shown read 26,600.	Cornect the years in the submitted version.			48 - Noted.	
			Tace 1.1 Page 16	W COUNTY II DOWN THE ANNUAL PROPERTY OF THE PARTY OF THE					
		44	Appendix 12.3, 12.2 Page 23.	Nature Engined eleptors the use of some response curves in summe distribution where pushess for the Nations.	To note.			49 - All assessments have been updated and checked in	
		98	Appendix 12.h Table 1.5	impacted based on the herhour perpose-	Conyct the veine in the admired vensor.			Appendix 12.4 (document reference 3.3.9).	
		8	green Page 25	which appear to be an the threshold of the righer magnitude collimition, but have not been settinged that inglies magnitude (e.g., 0.01% being law, 0.001% being Negligible; The magnitudes on this lable, and other lables, should be checked.	Check of of the man studes person the lables and amond the submitted version it reached.			50 - Magnitude levels have been reviewed and updated	
		45	12.5 Term 1.22	As per the underwater noise modeling report (Table 54), the TTS indiges for rick programming a 1,0km for VHF symmetric, rather than 0,1km, so have been presented here. The value should be connected and the assessment re-calcusses.	corrected impact ranges. These changes should be carried through to Table 1.24 in the submitted version.			throughout assessments in Appendix 12.4 (document reference 3.3.9).	
								51 - Assessments have been updated in Appendix 12.4	
								(document reference 3.3.9).	

NFOWFS3 049 085 040723	National England's Key	Neitz	mail England	's Advice	Action to the second	Marine	52 - Screening list has been	N
W 00_040_000_040723	Section of Preliminary Environmental Information Report (PERI) HRA - (Notice and (India) App	NE Ruf		Comment In addition, the TTG range for POW should be 0 ** km. carrier than 1.0 km 9 Report, North Falls Draft Report to Inform Au		Mammals	amended to include maximum foraging range rather than average, see the HRA	14
	Sciencing	53	Appendi	when the average trappy renge should be considered. The feature England macrowards the considered. They feature England macrowards that the first all discovered in European when a revised to occurs the thin. We note that I've first mat NE England SMU for grey assist to no singer excluded white the autocurrent's population of grey about. This is incommented with the PEN document when, this IMM is the subsequent of the PEN document when the IMM in the IMM is the IMM in the IMM in the IMM in the IMM in the IMM is the IMM in the IMM in the IMM in the IMM in the IMM is the IMM in the IMM is the IMM in the IMM is the IMM in the IMM is the IMM in t	int of European silm based on the maximum foreging ranges	_	Screening report (Document Reference: 7.1.1.1) for further details.	
		si	Table 6.3 and 6.3, pare 200	included in the assessment. We acceled to increasingly a the approach? If As in the FERT, there is a chairing-racy in the volcated and material state of England recommends that soft listed and nimp up are usery patient and the same terminduralisms are used across the documents. If would be benefitted to state which bear practice organized the properties and to suppose the will be practice organized.	Clarification and consistency we needed in relation to soft such and camp up duration and methods used. Proyuge reference to services best practice documents.		53 - Both the SE MU reference population (30,592) and the wider reference population (SE and NE England MU populations	
	Ayareumai	59	Tehler 6:4	Implemented to reduce the collision risk. Natural England does not support, as of scale charges for UKO classifier. Also we second that use of File type Account.	Torrate		combined, 56,505) of grey seals will be presented in the EIA	
		Sil.	Tebli	Monitoring (PAM) is consistent for manner manned monitoring alongside Makins Manned Observers (MMO). A Versial Management Plan should be	Add trig Venezal Management Plan to the list of		assessments. As a worst case it	
			0.4.	included in the list of documents relievent in mitigation.	documents of the submitted worker		is assumed that all seals are from the nearest MU, the SE	
							England MU, although the more realistic assessment is based on wider reference population which takes into account the movement of seals, see Section1.6.4. For assessments in the RIAA, they are based on connectivity with SACs therefore the specific SAC populations are used for seal species, RIAA Part 3, Marine Mammals (Document Reference: 7.1.3).	
							54 - Noted.	
							55 - Noted.	
							56 - Noted.	

FOWFS3_049_086_040723	heatural England's Key. Considerations	Neco	w Eudiena.	N Advisa			Marine	Noted.	N
0111 00_010_000_0101_0	Section 42 Preliminary Environmental Information Report (PEIR)	NE. Ref	PEIR Ref	Comment	Recommendation R	RHA (RAG)	Mammals		••
		57	256	If is stated have their the most procusionary approach will be applied to fire excessment, once yearing several moderate positives to harbon proposes (2.6 ames hind), yet will failed 6.10 the assessment has been made using showed density estimates. Nature England adhytes that the scalestown are revised using the most procusionary density setting and the propagation of the pregnancy 250.	The submitted export should use the most precautiously elemity estimates for the investment.				
		10	Table #.10	Natural England recommends that	The submitted version should review the numbers of impacted airmins as attack in our advice.				
		29	303	We understand the retireals behind the assessment, but due to the large foundation of animals that could protectively be effected by the PTS from the cumulative sergiouse to plenty, we can only agree with the conclusion that there will be no advance with the conclusion that there will be no advance where the obligation is encodemented. We note that previous verdices have previously (in SIP and MMMP but assume there it have been	proposal rather than deterring consisteration of integration measures to the post-content stage. If the relevant text is missing reporting the till and MMMP, then it should be added.				
		60	Table 6.16	be considered if consent for this is being	We advise this expraind needs to be considered within the assessment and miligation dentified to address the impacts.				
			E.16-	sough it is should be adutorised girld in lought it should be adutorised girld in lought it should be adutorised girld in lought it should be adutorised girld in the should be adutorised	considered water for address the financial misignation deemled to address the financial.				

FOWFS3_049_087_040723	Natural England's Kay Considerations		nil England			111	Marine	Noted.	N
3111 00_0 10_001_0 10120	Section 42 Presiminary Environmental Information Report (PEIR)	Ref	PEIR Aut	Comment	Recommendation	(RAG)	Mammals	Trotou.	'`
				such someto the 20% daily threshold would be exceeded. This sciences eleberate					
		61	316	distanced throughout that the personal transfer of 10% will be promised to two	The systaled version should acknowledge the Westfield exceptame of the less				
		es.	Total 8.62	pling events per day. If is not clear why SNS SNC summer area has been marrianed in the tower tills, while	Darfication is required				
				the table itself only reliefs to winter area. Also, the passigned before refers to the semicons treashold of 10% for what also as relevant to the project given the location in the SNS SAC.					
		63	8.43.11	we fire assessments for furticur pospose and grey said. Fire dainty, we recommend that the results of the assessments are presented in	Preson results of assengments for factous seas in taking, using the corns forms as has been followed to other species.				
		14	80+	indian as in previous chapters. We develop that the province for distribution of the province and the province of the first out thing is revised when the information on ports and stripping vedels between the notion and the province and the development eventually. Currently, thus to the technologies with the province and the development of the	are standing.				
		95	730H 6:34	groupsment. In order to conduct a more accurate in- condicionation assessment (expressing subset- local harbour porposes demailles are frighte- treen from brown Small Collection Accordance in the North Sea (FCANS) sorveys are advise that agreed append claimines, where	askeasment.				

	Natural England's Key Contridentions	Nema	# England	Adviny	***		Marine	Noted.	N
OWFS3_049_088_040723	Section 42 Preliminary Environmental information Report (PER)	Ref	PEIR Ref	Comment	Recommendation	Risk (RAG)	Mammals	Noteu.	IN
	1000000			wymen should be used in swamper. history perpose denether obtained from the		_			
	in-combination	-	465	site survey for Horosea Project Four are in the public domain. In order to correctly calculate if the seasonal	Take into consideration the total number of				
	an composation		100	threated in sorteasy caratiles in the season of the investigation effects with office CWF, any pling activity at North Falls heaponing in the Nason, but suitaids of the 14 or 76 stays of pling should be taken into scound.	Tank trip companion or the manufacture of any for piling from all OWF projects, not only the number of days piling at North Falls.				
		-67	488	We appreciate that it is correctly difficult to estimate the number and location of geographical surveys that could be understained, but considering the amount of activity enticipated in the North Sea, two surveys occurring at the same time as surrestructions of Nesth Rale appear to the long	We alress the figure is reconsidered and increased.				
		HS	Table 6.36	low to be regarded a WCS. The maximum eventup with the scalabled wice should be included in this table in order to	The submitted version should present the WCS for overlap during the winter assoon.				
			Tacab N.35, 6. 41 mrs. 0.47	present the WCS. The use of generic North Sea MU density should be avoided. As further information becomes avoidable, we would expect that more local and more precudency ornalies, will be applied for the in-combination.	We advise that the Applicant avoids using generic North Sea MU density. We advise the statesurent is refined as for as possible in the stateshout ES.				
	Mingation - Document Used(s):	Schedule	of Mitigation	assessment for disturbance.		-			
		76	Table 2.5	Natural England agrees with the listed addresse miligation. However, we do not	Amend the submitted yearon accordingly				
						_			
						_			
						_			

FOWFS3_049_089_040723	Natural England's Rey Considerations	Named England	n Advice-		-	Marine	Noted.	N
OWI 00_043_003_040720	Section 42 Preliminary Environmental Information Report (PERI)	ALL PERS Red	Comment India UNO cleanance Alone is emaild be breakful or include one VAID in the last one and any of reducing vessel disturbance and last one in the last one or included the comment of the comment o	Recommendation	Right (RAG)	Mammals	Noted.	, and the second
	Marine Science 9 875869 10	Crown, Michael & U of & Moorie, Chine & I ofected Aris — Halist 3 1876 — p. 2022 A7	tops, Caman & Carlotten, W. & Nastrin, Group Mines: Sivieux & Thompson, Claret & Thomp tol. Barness Distribution Estimates for Commen Series discuss for instanceurs in UK eviden; (2023)	in & Jessopp, Marx & Matthiopoulos econ Paul & Russell, Debtare (202 values and Management migration	Frontiers in			

					1
NFOWFS3_049_090_040723	Annex 5. Offshore Ornithology In formulating these comments, the following documents have been considered: Guide to PEIR Chapter 1 Introduction Figures - Chapter 1 Introduction Chapter 2 Need for the Project Chapter 5 Project Description Chapter 6 EIA Methodology Appendix 6.1 Grid Connection Optionality – Worst Case Assessment Chapter 13 Offshore Ornithology Figures – Chapter 13 Offshore Ornithology Appendix 13.1 Consultation Responses Appendix 13.2 Offshore Ornithology Technical Report Appendix 13.3 Supplementary Information for Cumulative Assessment Schedule of Mitigation Draft Report to Inform Appropriate Assessment Habitats Regulations Assessment Screening In Principle Compensation Options Review Natural England's Advice and Recommendations A summary of Natural England's advice in relation to Offshore Ornithology is set out in Table 1. Our key concerns along with recommendations are presented in further detail in Table 2.	Offshore Ornithology	Noted.	N	

NEOWES3 049 091 040723	Table 1 Summary of Key Issues - Offshore Omithology	Offshore	Noted	N
NFOWFS3_049_091_040723	Table 1 Summary of Key Issues – Offshore Omithology Text	TRYON TO THE TOP TO TH	Noted.	N N
NFOWFS3_049_092_040723	MIL THE Summary of Ray Concerns endorscap lawly effectiveness and connectively to the endoated GMA or the national who related as it is not contained and related to the national who related as it is not contained and related to the national who related as it is not contained to the national who related to the national street and related to the national related to the national street and related to	Offshore Ornithology	Noted.	N

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Offshore			giand's Adv	Hours i Fo	Numeral England's Key	OWES3 049 095 040723
Offshore Ornithology	be gathered to least of mis data it may be reactionary for the submitted Environmental Statement (ES) to apply most preclador in way assessment of life outlends of life area as insusanzial violation count of the catheroids of life area as insusanzial violation count of the accordance for the submitted and produced by the submitted as a final outlength of the area as insusanzial violation countries for the submitted and controlled apportioned behaviours and corrected apportioned behaviours and corrected apportioned behaviours and corrected apportioned behaviours and controlled apportioned behaviours and controlled apportioned behaviours and controlled apportioned behaviours and submitted to the appoint of the appoint of the appoint of correction features are applied to controlled appointment of correction features are applied to controlled appointment of controlled applied to controlled appointment of controlled applied to applied to applied to the controlled applied to applie	organid a not sure of the internocal energies contridence interview (Cla) area deviations. [200] to the gight developed to in Collision Real (CMM) showers, the time monthly were an expectation and a seem of providence and a seem of providence and production and seem of the mean production and a seem of providence and production and are internal (CCI). We do not believe of generative appropriate Cla.	Ver 13.2	B As 74 72 2	Considerations Section 42 Preliminary	VFS3_049_095_040723
		The partners in less of this casts it may be inactionary for the submitted in less of the casts it may be inactionary for the submitted in inversemental submitted in inversemental submitted in less selected in the submitted in inversemental submitted in less of the casterole in less selected in many submitted in the submitted in the submitted in the submitted in less selected i	Dominanti Recommendation, Risk (RAd) All parents in Figure of the case of may be experiment to the common of the	Billia Commend Commend Recommendation Risk (RAd)	PERR Ref PER	Recinior contact all information Report (PEIR)

NEOWES3 049 096 040723	Natural England's Key	Familier	al England &	Advice		Offshore	10 - Little gull demographic data N	
NFOWFS3_049_096_040723	Numeral England's Key Considerations Section 42 Professionary Environmental and mailties Report (PERI)	NE Red	PEIR Ref Cn. 13 Table 1313 Ch. 13 Para 101	Comments Commen	incomparable due to differences in survey mathodology, with problem distributions of survey	Offshore Ornithology	10 - Little gull demographic data has been deleted from the table, as this species is not scoped in for assessment. 11 - In relation to the German North Sea, Vilela et al. (2022), reports fluctuations but no trend in RTD population size in spring between 2001-2021, which includes a seven-year period since OWFs became operational	
				While to chape it if that there is a body of involvence consistently element that of the characteristic elements are consistently element that consistently element that is consistent that consistently element that consistently report to "fathering that consistently element that cannot consistently element that cannot commonities and elementative for instable elements element elements element elements element that consistently elements eleme			in 2014/15. If the observed displacement from OWFs in this area were to affect the survival of adult birds using this area during the non-breeding season it might be expected that population level effects would have manifested in this seven-year period. Vilela et al. (2022) suggest that in this area, the carrying capacity of the available habitat has not been reached.	
							Tracking data from tagged red- throated divers show large home ranges (several thousand square kilometres) during the non-breeding season (Kleinschmidt et al. 2022, Nehls et al. 2017)) such that displacement effects of OWFs will only affect a part of the home range of an individual bird. The effects of displacement on RTDs, if any, may be via body	
							condition and perhaps breeding success. Villela et al. (2022) and earlier studies in the same area (Vilela et al, 2021, 2020), use data from visual aerial and digital aerial surveys. It is reported that it was possible to incorporate differences in detection rate between techniques in the statistical analysis. Ship survey data were not included in the	

	analysis as density estimates were considered to have large uncertainties and they were not considered comparable with aerial survey data. In relation to the OTE SPA, it is considered that the change in population estimates between SPA classification in 2010 (6,466 individuals) and 2018 (18,079 individuals) has been interpreted with caution based on the change from visual to digital aerial surveys. No assumptions have been made about any increasing population trend in this area. Nevertheless, the scale of the increase in estimated population size (180%) is such that it would seem highly unlikely that there has been a decrease in the numbers of RTDs present during the non-breeding season. For more information, see ES Chapter 13, Offshore Ecology and Appendix 13.1 (document reference 3.3.12).

	Natural England's Key	Nation	England's A	Advice		Offshore		N
Section 42 Pro	Considerations Section 42 Preliminary Environmental information	Network	Ch 13 Ch 13 Pare 101 Pare 102 Pare 207	Comment descriptivetering period industring incoming, footing, feedings 1: A h 1% increase in beside microlatly is conclusioned for execution of the conditional of	have CTG-	Offshore Ornithology	12 - The likely range of mortality for displaced red-throated divers is discussed further in ES chapter 13 (Offshore Ornithology) and RIAA (document reference 7.1), in the context of the recent JNCC red-throated diver energetics study (Thompson et al., 2023) and the Natural England review of that study. A range of mortality of 1-10% for displaced birds is presented, although it is still considered that 1% is an appropriate precautionary estimate, and that expert opinion based on available evidence suggests that red-throated divers are able to accommodate any additional energetic costs of displacement during the non-breeding season. 13 - Q/A has been undertaken for submitted ES.	N

Recommendation Risk (8.44)	Committee	BELOW W. A	100	Countries and a	NFOWFS3 049 098 040723
Please ginner of inscensory following updated Collector Rosk Muskeling (CRA): If this assertion is to appear in the suprished. E.S. if would be mediatory to provide evidence.	It is stand that there is a <1% -normal in the recitable year of the convergencing selecting producting selecting producting selecting selecting producting the selecting selecting guide with the production of the selecting sel	Para 200	e .	mention Congress for the Congress of the Congr	NFOWFS3_049_098_040723
	Collector Roak Modelling (CRM)	involutility value of the commissioning entirection propulation of the extra track-backed gall with the execution of the appear confidence forms associated with processing to the confidence forms associated with processing to the confidence of processing the confidence of the confidence and the confidence of the confidence described where gall confidence according the confidence confidence according the confidence processing the confidence processing processing the confidence processing processing processing processing processing processing processing processing processing processing processing processing processing processing processing processing processing processing processing p	7.27 This stated that here is a K15-increase in the modelling rate of the corresponding reposed properties of the corresponding released properties of these lists of schooling by appear confidence where is associated with earlier of the corresponding released pill with the concepting of the upper confidence where of pillon in the correction of the cor	7.27	(ii) D. 1.1. In its stand that there is a N.15 - normalise in the Description of the Commission of the

		used to give some indication of whether changes in diving behaviour might account for changes in RTD numbers between different surveys. Based on available data on diving behaviour, HiDef scales up abundance estimates of guillemots, razorbill and puffins sitting on the water by respective factors of 1.2375, 1.174 and 1.1416. Surveys of the OTE SPA on 4 and 17 February 2022 produced estimates of 10,148 and 22,280 individual RTDs within the SPA boundary (Irwin et al. 2019). If it were to be assumed that all RTDs recorded on 4 February were sitting on the water (availability bias is applied only to birds recorded on the water, not birds in flight), and the highest availability bias for auks were to be applied (1.2375 for guillemot), then this would increase the abundance estimate to 12,558, which is still much lower than the estimate for 17 February (without any consideration of availability bias in relation to the latter survey).
		increase the abundance estimate to 12,558, which is still much lower than the estimate for 17 February (without any consideration of availability bias
		More information can be found in ES Chapter 13, Offshore Ecology and Appendix 13.1 (document reference 3.3.12).

OWFS3_049_099_040723	Maturel England & Key Constitute dilune Socian 42 Preliminary		d Kiruland's A			Offshore	See above.	N
	Environmental information Report (PEIR)	NE	PER Ref	Comment	Recommendation (Risk (BAG)	Ornithology		
			Para 211 Para 214 Para 217 Para 210 Para 226	passing frough the area, retine than a repoted population. These a given retineral might only be displaced once trust the wind farm, as required to teing classical manage times if a real resident of over the Press account spring registron present. There are close tolerances to tempore of births during.	of text-firerable (flore increase is unboundable) for plant and implemental of text-foreign or in- move interpretary formed (flore) that seems of a seem outper of text that seems of a seem outper of			
				registron periods and a lauguration from dissolutions and findings are furnished search flampful seaschillary and search seaschillary and provide considerable for the seasch search control of forces are referring an the area as a some seasch seasch control of flampful flam				
				are not obtained to commuse the sourcey trided. Their interp be excellent alternative habitat and vie nightight our companie that habitat and vie nightight our companie that habitation diver may should be subject to an AED re-companied in relation to accent, dust laution and evaluating of business arriving.				

S3_049_100_040723	Section 42 Preliminary Environmental Information Report (PEIR)	NE Rat	PEIR Ref	Core	Recommendation	Risk (RAG)	Offshore Ornithology	17 - QA and update in submitted ES. While the Natural England	N
				from disturbance and finguishment impacts as the OTE SPA. Natural Englavel alter questions the value of yarubbe unday results in sente tree periodics are known to spend a significant amount of an area undersoon of their amount of their underwards to the white their amount of accounted for "Euroamona" to program any be incurred for "Euroamona" to should will be total cryola. Shuch sentimenting factors of influencing delection rating, sould read to their consideration of the red to the Villa Consideration of the red to the Villa Consideration of the red to the Villa Consideration of the redestant of the Consideration of the Village of Village of the Village o			Online	advice is noted, it is considered appropriate to distinguish spring and autumn migration seasons, for clarity in the assessment. 18 - Noted. Revised CRM results and assessments are presented in the ES.	
		ÚF.	Ch 13. Para 216	migration period. Retirences to the autumn HDMPS are nevertice assumed to be a copypaste emit.	QA and shared the in the submed ES Names England suppose following the convention as theselend if the research Sociegoially before Mannium Project simply which simply allowed allowers as supposed when spring and allowers as important weeking spring and allowers as important years of the population being consistent across both time periods.	i			
		18	Ch 13 Para 230	Assessments (EIA) and Habitals Regulations Assessments (HRA) to reflect the talest guidance on avoidance rates and other	Natural England will reflain from commenting on the results of CRM conducted to date in the knowledge that these will be supersected.				
			1	prometers	1 - 2				

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			documents for the OWFs referred to, it is not always clear (based onfrom documents held by RHDHV and available from internet searches) whether predicted collision mortality was zero or an estimate was not provided in the ES (for example for 'early' OWFs, collision risk modelling results may be presented only for a few species in the ES, with no information on whether CRM was run for other speciess). Therefore, it can beis difficult to distinguish between these two scenarios. For the ES it is proposed to follow the final CEA figures for SEP and DEP are referred to in this regard, to assume that where '-' is included there is no estimate for a given OWF, and where '0' is included, the collision risk was zero.	
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FOWFS3_049_102_040723	Natural England & Key Considerations Section 42 Preliminary	-	ni Empland's A			Offshore	Noted.	N
	Environmental Information Report (PEIR)	NE	PEIR Ruf	Conunent	Recommendation Risk (RAG)	Ornithology		
	MSA williams and Descriptions Description	h Report i	io inform (im A	Appropriate Assessment				
		H	ROAN Pare 1203	In addition to the singsite quoted, please notes that Murraire the extent. Statistics in all anisotropisms of the product products of anisotropism of statistics in hope of the products for the size for commonly which the support to the feature for all necessary stappes of this non-treating internal period (mustine), recently, challing, bedough at the failuring levels, statistics parallel statistics produced (71, 600 Aug. Statistics parallel statistics parallel statistics). A statistics are supported to the statistics of the stat	Convenies (SPLCV) region: The instrument can be fixed (SSS).			
		n	1212	and Water Columns. A 1s, mortality rate for deseased HTDs is proceed on foreign an expressible processor on foreign an expressible processor of the processor				
		1		impact, sooul which there is some unbehalisht, is used in pullification to continue increasing the pressure on the continue increasing the pressure on the	<u> </u>			

OWFS3_049_103_040723	Natural England s Kay Composition 42 Preliminary Environmental Information		England's A		-	Offshore	Noted.	N
311 33_0 10_100_0 10120	Section 42 Preliminary Environmental Information Report (PEIR)	NE Raf	PEIR Ref		Recommendation Risk (RAG)	Ornithology	Tiolog.	
				spaces brough further deplacement. SPAs are classified for being the most substant sentences for the spaces in question and have a contain role in securing the funcionate capsaination status for the spaces are a whole Charry, the OTE SPA prolimits what will be specified to the spaces. The spaces of the spaces in a security of substant for this spaces. Natural English roless that the 15th Eudlier	- 5			
		24	7EAA Faras 1213 1214	evertup is in fact (approximation) 110 km ² shar to a A km ² (vertisp fluid in real considered.	For the calculation of SSM, oversign soft the project Coffee on to Zyan, primar some the activation to Zyan, primar some the social wave is the sub-reliand ES, William for the social s			
					where is glass of projects a unifor 15kin of a removable for consistent and the constraint of the Prost-containt monitoring at the network London of statement of 11.5 km. Netweet Engands of instances of 11.5 km. Netweet Engands of response to 19 to Control Act of the proof is writished home 12.45 (2007) 655(2015). L. L. Latenda Engands Commission Act or inclinated and the control and the commission of the commission of the commission of the commission of the commission of the commission of the commission of the commission of the commission of the commission of the commission of the commission of the commission of the comm			
	·	,						

FOWFS3_049_104_040723	Rection 42 Preliminary Environmental Information Report (PEIR)	NE Ref	PER Ref	Comment 1	Racommendations Risk (RAG)	Offshore Ornithology	Noted.	N
		zn.	HIAA Para 1216 7 d 7.4	We sink that provides a minimum it in or account to the set than latter swilliag in the northway part of the SPA shown in Figure 7.1 Proceeding earth earth on earth capital countries have been modeled approximation (MAA) approach. An appendix or information that shows and appear to the reference of the stress and appear for the stress with a species of the stress and appear to the stress and t	the4km² area that has not been considered would have little impact on the analysis, but this is not currently clear.			

WFS3_049_105_040723	Material Engineer's Buy	Tina.	al Digwest with	Afferin			Offshore	Noted.	N
1 00_0 10_100_0 10120	Matural Enginers's Buy Commissione Section 42 Preliminary Environmental Information Report (PER)	NE that	PE III Ref	Comment	Recommendation	(RAG)	Ornithology	Trotou.	.,
		T		heartost, or the resulting population estimates and their application for the currention of predicted modality or Tables, 7-3 and 7-5	Estuary SAM (Michael report) to inform incommens in future ETO and it desired an incommens approach include to the informal ESS.				
		w	Para 1210 Tanas 7.3	When rounding the number of #Th cisplaces! Natural England roles amount at >0 aut =0.5 have been counciled durn rely. C.48 limits creptional assuming 3% of 15 birds has been presented as Os.	Names England Immedien that any impers of >0 should be munited up to 1 ford	ī			
		21	Pue Pure 1223 1224	An effective depletament area (EDA) is described (the area of overlaw wearing by the predicted proposition of finds deplaced at deferred database from CWF4s;	The submitted ES should present the MMI area over which discomment may scale to calculate the area of the SPA first may be anguitted.				
				Figure II in IA-186 AZ examination. Natural III is a second of conducted that is usually of the EXA approach and conducted that forese calcivations on placed to second outside the forese calcivation on placed to second outside the second ou					
				displacement effects. This is clearly just the					

FOWFS3_049_106_040723 Constitution of the Co	oted.	N
FOWFS3_049_106_040723 Section 1 Secti	oted.	N

NFOWFS3_049_107_040723	National England & Roy Consolders of Personnary Section 42 Personnary Environmental Information Report (PEIN)	NE Ruf	PER Ref	question is not endence that a further impact could be type and if there are been on	Recommendation Risk (RAG)	Offshore Ornithology	Noted.	N
				COLAR SA Exhanismed. TRAVE IN NO BASIN DAY				
		29		which to conclude that the project will not additionally explicit the distribution of red- throated divers within the SPA in these				
			RIAA Para 1229	Invalid disma in this man well that a Project above differ the distinction of the aprecial within the SPA can be securified.	when on inhightly already term the excluding OVEN declaracioner terms on the exhibition of the OVEN declaracion of the OVEN DRA carried for inhall, shall be over the overthe overthe overthe over the overthe			

NFOWFS3_049_108_040723	National England's Ray Committee strong Section 42 Preliminary Environmental information Report (PEIR)	NºE mar	PER Ret		Recommendation	(BAG)	Offshore Ornithology	32 - The North Falls array area has been refined to be as far	Y
		w	FINAL PLANE 1928 FINAL FINAL PAGE 72	The Applicant Males that I'vi is concluded that where well-the on the prosecution of set of services without an of the procession of set of services of set	Natural England recommends final following on the methodology seal to provided in the ETO, given a segment to impact to a segment to the ETO, given a segment to impact to a segment to a s		Cimulology	from the OTE SPA as feasible, in response to the PEIR feedback. This is discussed further in the HRA Derogation Provision of Evidence (document reference EN010119/APP/7.2), submitted with the DCO application.	

S3_049_109_040723	Contratelland	Kenn	ni Englancia d		4	Offshore	Noted.	N
	Consideration Consideration Souther 42 Peakingary Environmental Information Report (PEIR)	NE Ref	129	Command	Recommendation Rink (HAG)	Ornithology		
				Impact, are Afrecialy recovering the project vivines the Secretary of Stato's Habitists Regulation Assessments for the East Angles Core Name and State Angles Tool Cover.				
		3,5	Para Para 1247	Requisitors Assessments for the East Angle. Once Horth and East Angle Hoo CNVI. The Applicant stooms, it is therefore, another the Wholft Falls wanted and sociolable to a special information of the assessment of the sessing an openination effect of CNVFIL on the distribution of red-deposits diverse within the Chair Themsel Stating's JRN, and specialising in relation to Mind Holl, an in-claribination willing an education of Mind Holl, an in-claribination willing an education.	See drove common			
			١.,	Outer Trained Estuary SPA, and specifically in relation to floods Falls, an in-conditionalism effect can be excluded.				
				Named Engand relicions as a section has in large of adding to the spaces are over which requision test expacts are occurring at the OTE SPA considering the assent All of we are of specific any non-type additional are				
		ju.	HIAA Para 1248	RTD at the OTE SPA framesi England buildings are possessed that it will not be	Eine command on FIAA (New 1948)			
				possible to deliver effective comparisation at the project level it should also be minet first competication as last resort once the influence feet aday has been enhanced and that it will be necessary to demonstrate no				
				semiactry dismission in my derogation sees Again hearral England services that alteritying architectures and metasism				

IFOWFS3_049_110_040723	Natural England's Key Consumerations Section 42 Preliminary	Platter	ni England's A	Advise	Automotive and an artist and an artist and artist artist and artist and artist artist and artist artist and artist artist and artist ar	100	Offshore	Noted.	N
0111 00_010_110_010120	Section A2 Preliminary Environmental Information Report (PEIR)	NE	PEIR Ruf	Comment	Retammerclation	(RAG)	Ornithology		•
		-35	Rina Para 1284	measures should be given the rightest poorting for to justimize the poorting of the recently consented originals will composite series from exemply consented to priginals will composite series from exempting the first in conferentiate total for believe the series of the conferentiate total for believe the poorting out. Natures Empires aboves the series however, the series will not will not will not the representation that for the series will be a first in this justifies of the ES, as this is being the present of the composite of the composite of the convent originals are series accounted for the convent origination in representation and residence of the convent origination in regularization of the convent origination in regularization and the series of the convent origination in regularization and the series of the convent origination in regularization and the series of the convent origination in regularization and the series of the convent origination in regularization and the series of the convent origination or the convent origi					
		н	1793	Isolatinis Maiural England wecomes the early sociologication of social house (will the impact assessment has been completed in a unchear with scale of must these maiuras and made to componishe for these maiuras and made to componishe windown of the assessment of the windown of the assessment of the windown and security socialistic componishes the major for the shall saidly the experiment of the Haliciata Tecquilloss.	We advise that the mission hereunity is followed, which shreads a window to eliminate believe transitioning the services of automobility medicalities.				
		-57	RIAA 1345	Plagations: We seemed precide compressions the seemed precide compressions to the seemed process of the seemed process of the recidency which all provide updated Spares (see commen) above on Ch 13 Paris. 230]	Natural Engineers will provide further comments when the updated figures are available and would welcome further documion on the thip uph the ETG process.				

NFOWFS3_049_111_040723	Nation England's Reg. Consignment Section 42 Preliminary Environmental Information Regord (PEUR) AB Data in Principle Unit in Principle Comments No note that many of our previous comments Environmental frame Environments No note that many of our previous comments Environments No note that many of our previous comments Environments No note that many of our previous comments Environments No note that many of our previous comments Output Output Output No note that many of our previous comments Revent Nazion Loguerra advice on the Compensation Output Output No note that many of our previous comments Output Ou	Offshore Ornithology		Noted.	N
	Decem				
NFOWFS3_049_112_040723	Annex 6. Onshore Ecology and Onshore Ornithology In formulating these comments, the following documents have been considered: Guide to PEIR Chapter 1 Introduction Chapter 2 Need for the Project Chapter 4 Site Selection Chapter 4 Site Selection Chapter 5 Project Description Chapter 6 EIA Methodology Appendix 6.1 Grid connection optionality Chapter 8 Marine Geology, Oceanography and Physical Processes. Figures – Chapter 8 Marine Geology, Oceanography and Physical Processes. Chapter 10 Benthic and Intertidal Ecology Chapter 23 Onshore Ecology and Appendices 23.1-23.7 Chapter 24 Onshore Ornithology and Appendices 24.1- 24.5 Schedule of Mitigation Report to Inform Appropriate Assessment Appendix 1 Habitats Regulations Assessment Screening Report May 2023 Habitats Regulations Assessment Draft Report to Inform Appropriate Assessment Draft In Principle Compensation Options Review Natural England's Advice and Recommendations A summary of Natural England's advice in relation to Onshore Ecology and Onshore Ornithology is set out in Table 1. Our	Onshore Ecology	Onshore Ornithology	Noted.	N

NFOWFS3 049 113 040723	Table 1 Summary of Key issues - Onshore Ecology and Onshore Otniffelogy	Onshore	Onshore	1 - The two-year baseline	N
NFOWFS3_049_113_040723	Someting of Key Between Commonwealth and South Commonwealth Commonw	Onshore Ecology	Onshore Ornithology	1 - The two-year baseline onshore ornithology survey programme commenced in September 2020 and was completed in March 2023. Details of survey methodology and results are presented in Volume III, Appendices 23.1 to 23.8 (document reference 3.3.30 and 3.3.37). The results of the surveys form the basis of the assessment within this chapter, and the determination of embedded mitigation (section 24.3.3 of Chapter 24, Onshore Ornithology) and additional mitigation (referred to throughout the assessment in section 24.6 of Chapter 24). Natural England were consulted on results of bat surveys in Onshore Ecology and Ornithology ETG (October 2023). The project's Bat Activity Survey and Bat Emergence Survey are considered adequate to define the ecological baseline	N
				on results of bat surveys in Onshore Ecology and Ornithology ETG (October 2023). The project's Bat Activity Survey and Bat Emergence Survey are considered adequate	
				available been used in the process of determining the location of temporary and permanent onshore infrastructure, as well as embedded mitigation requirements (section 24.3.3 of Chapter 24). Of key concern	
				was ensuring that construction activities do not impact upon the bird assemblage of Holland Haven Marshes SSSI, and there would be no direct habitat loss or disturbance within the SSSI (see assessment in section 24.6	

		of Chapter 24).	
		Provision of an Ecological Clerk of Works (ECoW) for to landfall HDD has been included in the Project's embedded mitigation.	
		Embedded mitigation is summarised in Section 23.3.3 of Chapter 23, Onshore Ecology.	
		Impacts relating to Holland Haven Marshes SSSI are set out in Section 23.6.1.1 of Chapter 23.	
		This is also considered in Chapter 24 Onshore Ornithology.	
		3 - NFOW have reviewed conclusions regarding protected species licences following identification of the final onshore project area for DCO application. Apart from in relation to great crested newts (considered separately, under DLL) no	
		licenses are considered required, as described in Section 23.6.1.10 - 23.6.1.16 of Chapter 23.	

FOWFS3_049_114_040723	NE	Summary of Key Concerns	Nitural Empired's Recommendations to Bissolve haves	Onshore	Onshore	4 - The location of the HDD drill	Υ
	5	Hashard England Love Concern (opening the witershift colds projections impost selections of the impost selections of the access across the Investiga access across the Investiga select on in process to take a whole on in process to take a property of the Investiga (opening to take a property of the Investiga (opening to take a property of the Investigation of the impost (in § a notice, infrared) (in § a notice, infrared)	Bits concluded that indention cable gratectors will act as additional graynes. However, no endersor is growted to apport the owner conclusions for any in contractors regard estimated with Fire Seasons (VS) polymer conflores considerable and expense in production of the contraction are assembled by the contraction of	Ecology	Ornithology	exit will be below Mean Low Water Springs (MLWS), meaning that there will be no construction footprint, and therefore no cable protection required, within the intertidal area.	
	7	in complements and commission which will help promote minds with help promote notinely fine Empares, and East Angles GREEN (EARS), should be hely explained. The boolwesty min gain (BNG) of the development should be assessed using the Boolwesty Metrix 4.0. Note should be assessed using the Boolwesty Metrix 4.0. Note should be pre-mandatory, so this should be pre-mandatory, so the soft senters mandatory.				Intertidal impacts are assessed in Chapter 10 Benthic and Intertidal Ecology.	
						5 - No foreshore access is required for the construction works relating to the onshore export cables, and so no impacts will occur on birds utilising the intertidal area. Potential noise, lighting and visual disturbance impacts on the SSSI are considered in relation to onshore construction works in section 24.6 of Chapter 24 (Onshore Ornithology).	
						Intertidal impacts are assessed in Chapter 10 Benthic and Intertidal Ecology.	
						6 - Both projects are considered in the CEA, see section 24.8 of Chapter 24, Onshore Ornithology.	
						The cumulative effects assessment is set out in Section 23.8 of Chapter 23, Onshore Ecology.	
						7 - The Project has used the most up to date version of the Defra Statutory Biodiversity Metric at the time of writing. The Early Design BNG assessment and strategy is set out in the	

Natural England's Ray			ecommendations - Onshore Ecology and	o orisinate orinitationogy	Onshore	Onshore	8 - All ornithology surveys are		
Considerations	Natur	ut Engrand's	Advot	77.00	Ecology	Ornithology	now complete and are included		
Section 42 Preliminary	NE	PESR Ref	Comment	Recommendation Risk	Loology	Ommunology			
Environmental Information	Ref			(RAG)			in ES Chapter 24 Onshore		
Report (PEIR)		1		100			Ornithology.		
Project Parameters - Occurren	intra) Liturd: C								
Project Description		Comment	The project description is so defined as possible at this stage, but we note currently	All relevant surveys to be competed and reported in the ES. Provide details on final cable			9 - Noted.		
		1	that there is no commitment yet for a final	rouse and any necessary mitigation measures.			9 - Noteu.		
			rode/increating, and that as relevant surveys have not yet himm completed. How	including but hit exclusively microsting.					
			will the project design be refixed prior to automission to help avoid, reduce, and				10 - Skylark was scoped out of		
			Wegate impacts?				the assessment in the PEIR		
	Documents)			Impler 24 Ornhore Omithology, Apprendices 24.1-24.5					
Survey Unto Acquomen	9	Para 21 -	We asyme that the deal-based data search in samplectory.	N/A			because, as a relatively		
	10		Based on the assessment of the impacts on				abundant species, population		
	110	Comment	comdor, it appears that date for saylarks	species for onshore omithology.			level effects are considered very		
	-		Without be available, tool impacts on Ifem are				unlikely even under the worst-		
Data Giga	11	General	not currently sufficiently assessed. As detailed farmer in our comment above in	We advise that futber information is required as					
100.000			table 2, we note the potential impacts on	detained in table 2 above			case scenario.		
			coastal processes from cable protection in the interticial area acting as groynes.						
	12		We note that further survey data will be	We advise that the survey data should be			Upon request, the species has		
		Comment	provided for balls and non-breeding birds.	provided when it is available, and the anaesament updated.					
	13		We note that no noctumal surveys have	We advise that consideration is given to carrying.			been scoped into the		
		Comment	blesh grovided for non-breeding birds.	out notional surveys using thermal imaging for species such as golden player if night-time			assessment here (see section		
	21	Por 1	The second of the second of	working will be required.			24.6.1 of Chapter 24 Onshore		
	14	Comment	There is no calculation of Biodiversity Net. Cam provided.	We advise that a calculation is provided using. Metro: 4.0, when habitat data is ayusidate.			Ornithology). No significant		
			4-4-4						
							effects are predicted for this		
							species, but it is considered as		
							part of proposed enhancement		
							measures which would benefit		
							breeding and non-breeding		
							birds.		
							bilds.		
								Т	
							This is addressed in ES Chapter		
							This is addressed in ES Chapter 24 Onshore Ornithology.		
							24 Onshore Ornithology.		
							24 Onshore Ornithology. 11 - Intertidal impacts are		
							24 Onshore Ornithology. 11 - Intertidal impacts are assessed in Chapter 10 Benthic		
							24 Onshore Ornithology. 11 - Intertidal impacts are		
							11 - Intertidal impacts are assessed in Chapter 10 Benthic and Intertidal Ecology.		
							24 Onshore Ornithology. 11 - Intertidal impacts are assessed in Chapter 10 Benthic and Intertidal Ecology. 12 - It is considered that		
							24 Onshore Ornithology. 11 - Intertidal impacts are assessed in Chapter 10 Benthic and Intertidal Ecology. 12 - It is considered that nocturnal surveys are not		
							24 Onshore Ornithology. 11 - Intertidal impacts are assessed in Chapter 10 Benthic and Intertidal Ecology. 12 - It is considered that		
							 24 Onshore Ornithology. 11 - Intertidal impacts are assessed in Chapter 10 Benthic and Intertidal Ecology. 12 - It is considered that nocturnal surveys are not required to be able to robustly 		
							 24 Onshore Ornithology. 11 - Intertidal impacts are assessed in Chapter 10 Benthic and Intertidal Ecology. 12 - It is considered that nocturnal surveys are not required to be able to robustly assess the potential for impacts 		
							24 Onshore Ornithology. 11 - Intertidal impacts are assessed in Chapter 10 Benthic and Intertidal Ecology. 12 - It is considered that nocturnal surveys are not required to be able to robustly assess the potential for impacts on birds that may be present		
							24 Onshore Ornithology. 11 - Intertidal impacts are assessed in Chapter 10 Benthic and Intertidal Ecology. 12 - It is considered that nocturnal surveys are not required to be able to robustly assess the potential for impacts on birds that may be present during the hours of darkness, as		
							24 Onshore Ornithology. 11 - Intertidal impacts are assessed in Chapter 10 Benthic and Intertidal Ecology. 12 - It is considered that nocturnal surveys are not required to be able to robustly assess the potential for impacts on birds that may be present during the hours of darkness, as		
							24 Onshore Ornithology. 11 - Intertidal impacts are assessed in Chapter 10 Benthic and Intertidal Ecology. 12 - It is considered that nocturnal surveys are not required to be able to robustly assess the potential for impacts on birds that may be present during the hours of darkness, as presented within Chapter 24		
							24 Onshore Ornithology. 11 - Intertidal impacts are assessed in Chapter 10 Benthic and Intertidal Ecology. 12 - It is considered that nocturnal surveys are not required to be able to robustly assess the potential for impacts on birds that may be present during the hours of darkness, as presented within Chapter 24 Onshore Ornithology.		
							24 Onshore Ornithology. 11 - Intertidal impacts are assessed in Chapter 10 Benthic and Intertidal Ecology. 12 - It is considered that nocturnal surveys are not required to be able to robustly assess the potential for impacts on birds that may be present during the hours of darkness, as presented within Chapter 24 Onshore Ornithology. The realistic worst-case scenario		
							24 Onshore Ornithology. 11 - Intertidal impacts are assessed in Chapter 10 Benthic and Intertidal Ecology. 12 - It is considered that nocturnal surveys are not required to be able to robustly assess the potential for impacts on birds that may be present during the hours of darkness, as presented within Chapter 24 Onshore Ornithology. The realistic worst-case scenario		
							24 Onshore Ornithology. 11 - Intertidal impacts are assessed in Chapter 10 Benthic and Intertidal Ecology. 12 - It is considered that nocturnal surveys are not required to be able to robustly assess the potential for impacts on birds that may be present during the hours of darkness, as presented within Chapter 24 Onshore Ornithology. The realistic worst-case scenario outlined in Table 24.4 in Chapter		
							24 Onshore Ornithology. 11 - Intertidal impacts are assessed in Chapter 10 Benthic and Intertidal Ecology. 12 - It is considered that nocturnal surveys are not required to be able to robustly assess the potential for impacts on birds that may be present during the hours of darkness, as presented within Chapter 24 Onshore Ornithology. The realistic worst-case scenario outlined in Table 24.4 in Chapter 24 states that 24-hour working		
							24 Onshore Ornithology. 11 - Intertidal impacts are assessed in Chapter 10 Benthic and Intertidal Ecology. 12 - It is considered that nocturnal surveys are not required to be able to robustly assess the potential for impacts on birds that may be present during the hours of darkness, as presented within Chapter 24 Onshore Ornithology. The realistic worst-case scenario outlined in Table 24.4 in Chapter 24 states that 24-hour working may be required occasionally at		
							24 Onshore Ornithology. 11 - Intertidal impacts are assessed in Chapter 10 Benthic and Intertidal Ecology. 12 - It is considered that nocturnal surveys are not required to be able to robustly assess the potential for impacts on birds that may be present during the hours of darkness, as presented within Chapter 24 Onshore Ornithology. The realistic worst-case scenario outlined in Table 24.4 in Chapter 24 states that 24-hour working may be required occasionally at		
							24 Onshore Ornithology. 11 - Intertidal impacts are assessed in Chapter 10 Benthic and Intertidal Ecology. 12 - It is considered that nocturnal surveys are not required to be able to robustly assess the potential for impacts on birds that may be present during the hours of darkness, as presented within Chapter 24 Onshore Ornithology. The realistic worst-case scenari outlined in Table 24.4 in Chapter 24 states that 24-hour working		

	work would be limited to 07:00 to
	19:00 from Monday to Saturday.
	It is therefore the case that the
	spatial extent of potentially
	disturbing works at night (due to
	HDD work, and likely occurring
	at a single location), would be
	very small. Some other
	construction works may extend
	into the hours of darkness during
	winter, but where required the
	temporal extent of these works
	would be very limited, and
	therefore potential disturbance
	to wintering birds also limited to
	short periods.
	Any mitigation measures that
	would be deployed during the
	construction phase to minimise
	the risk of disturbance (see
	section 24.3.3 of Chapter 24
	Summary of mitigation embedded in the design) would
	also apply to nocturnal working.
	also apply to flocturial working.
	For the purposes of assessment
	it has been assumed that
	curlew, lapwing and golden
	plover may utilise agricultural
	land within the onshore project
	area for feeding or roosting
	during the night, potentially
	using different fields to those
	used during the day. It has also
	been considered that birds' use
	of fields may be different
	between years, in response to
	changes in field management
	from year to year. The
	assessment of construction
	disturbance therefore assumes
	that these species could use any
	suitable fields within the onshore
	project area, not just the fields
	they were recorded using during
	daytime baseline surveys.
	As it is assumed that birds may
	be disturbed during any works

		within potentially suitable habitat, regardless of the recorded distribution during the surveys, collecting nocturnal survey data would therefore not change the approach to assessment and consideration of the potential for significant effects. It is added that due to generally accepted limitations in detecting and counting birds at night, it is unlikely that peak counts would be obtained during nocturnal	
		be obtained during nocturnal surveys and upon which to undertake an assessment. A robust approach to assessment has therefore been undertaken, informed by daytime baseline surveys. It is considered that the collection of nocturnal data would not change the conclusions of assessment presented herein.	
		All bat surveys are now complete and their findings are summarised in Section 23.5.4.2 of Chapter 23, Onshore Ecology (and Appendices 23.8 and 23.9, document reference 3.3.37 and 3.3.38). All ornithology surveys are now complete and will be included in ES Chapter 24 Onshore Ornithology.	
		No adverse significant effects are predicted to occur to bats. 13 - This is addressed in Chapter 24 Onshore Ornithology. 14 - This has been addressed in the Biodiversity Net Gain Strategy (Document Reference 7.22).	

OWFS3_049_116_040723	Natural England's Key Considerations	Makin	al England s	Advisa	10.0	Onshore C	Onshore	15 - Additional surveys have	Υ
	Section 42 Preliminary Environmental Information	NE Ref	PEIR Ref	Comment	Recommendation Risk (RAG)	Ecology	Ornithology	been carried out on such areas	
	Report (PEIR)	15	Para		We advise that these ground-truthing serveys are		J	where access permission was	
	Particular Control	13	194,314	We note that work areas have not been surveyed that to lack of sensower power	carried that these decime can be exampled				
	Environmental Impact Assess dominic impacts	ment - 0cc	General General	Chapter 25 and relevant appenditions We note that but survey results are not yet	Any treesbacovol to be removed will require a			able to be obtained. These have	
				reported.	bit assessment. Aposonally, habitat which may be finingle;/townselling habitat will need to be			been added into the ES	
					assessed. We advise consideration is given to surveys for Matricians' popularitie (Pipobletus nathus), which migrates across the North Sea.			ecological baseline assessment	
					Any surveys will need to be carried out at an aggregation from any to appropriate socialists			in Sections 23.5 and 23.6 of	
		37	Germani Commani	We style tritlering but <u>standing adding</u> for protected spaces, any departures from	Parasia return to our sharoling advice			Chapter 23, Onshore Ecology.	
		10		the implications for departure fully assessed.				, , , , , , , , , , , , , , , , , , , ,	
		1.0	23 6 24	We note that the practice lamified occasion will be determined following PETR. We also note that the Project has committed to HDO at	any impacts to SPA birds that use the 5331 and			16 - All bat surveys are now	
				Se set back approx. Four from the coast.	poleritally breeding birds. Furtherinore, if works or stoses to the forestone or meritant zone are.			complete and are summarised in	
				We do Nave concerns, However, regarding the consideration of nose, light and visces disturbance from the indicative landfall	inquired. Iher further information atout the provided, and puternal impacts assessed. We also advise that puternal in-combination effects.				
					due to the sandair compound and any meridial scribs should be fully completed and assessed.			Sections 23.5.4.2 of Chapter 23.	
				potential incombination impacts (with other projects such as five Enturies) to SPA name and browning lands array the SSS.	in the Elli				
				il to amorat stated windles any works or				Chapter 23 includes	
			-	among will be required un the fareshore of				considerations of potential	
								effects upon migrating	
								Nathusius' pipistrelle in Section	
								23.5.4.2.3. This includes data	
								provided by the BCT's National	
								Nathusius' Pipistrelle Project.	
								No adverse significant effects	
								are predicted to occur to bats.	
								17 - Noted.	
								18 - The location and extent of	
								the landfall area has been	
								refined since the PEIR (see	
								Figure 24.1, document reference	
								3.2.20). This has been designed	
								to minimise risk of disturbance	
								and other impacts on the part of	
								the Holland Haven Marshes	
								SSSI which is of greatest	
								importance to the SSSI	
								assemblage throughout the	
								year, namely the lagoon and	
								wetland area that located within	
								the Holland Haven Local Nature	
								Reserve (LNR). Potential	
								disturbance impacts relating to	
								landfall activities are assessed in	
								section 24.6.2.2 of Chapter 24,	
								Onshore Ornithology.	
								In-combination impacts on SPAs	
								in combination impacts on Of 7to	
								are assessed in the RIAA (doc ref 7.1).	

				There would be no construction activities within the foreshore or intertidal areas, and as such, all related potential impacts have been scoped out of the assessment. Full consideration of impacts of landfall compound and intertidal works on birds are included in Chapter 24 Onshore Ornithology. Intertidal impacts are assessed in Chapter 10 Benthic and Intertidal Ecology.	
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FOWFS3_049_117_040723	Natural England a Key Considerations	Matter	old Empland is	Acres		Onshore	Onshore	19 - In accordance with the	N
·OVVFS3_049_117_040723	Section 43 Proliminary Environmental Information Resert (PER)	full flaf	PESK Ref	Comment across the minimum. This should be patrilled.	Recommunication Risk (RAG)	Ecology	Ornithology	advice provided, the potential for	IN
		+5	Chapter 24. care 25	and further details provided. The orients to selection for target breeding.	Pontural Engand admiss that jis used as being feeded as a species of principal innovations in flexicon 4 of the MERIC Act Species are provided a species or shorter in flexes are provided a species or shorter in flexes are the resulting belief inside feeded from the con- tinuous species or shorter in flexes are from a some recorded in the contribute area, so these or skars to be reading select this safe. The mining are already that flexy are considered to thinkularious and results in the generality of contribute and into all and results in the generality of the shorter in the selection of and results in the generality of the shorter in the selection of and results in the generality of contribute or and results in the generality of contribute or and results in the generality of contribute or and results in the generality of provided in the selection of the selection of provided in the selection of the selection of th			impacts upon skylark has been scoped into the assessment (see section 24.6.1 of Chapter 24, Onshore Ornithology). Measures which would benefit	
	Metrocomingy	80	Chapter 8, pera 291	The Fending count is insuranced as insuring medium seminifies to orbit protection in stationar series. Already series for protection in stationar series, adversing restring protecting protection results are as additional yarystes, benefiting that existing profession.	They are scholards as a talengal specime. We note that there are described in a definition of the impacts of further resistance and the impacts of further resistance a sedement to accomply a making a sedement of the property of the impacts of their asset of these areas and washing sedementing unusually appearing terminate or the providing defences. If it is made and washing sedementing is the impact of the sedement of the impacts of the sedement of the impacts of the sedement of the impact of the sedement of the sedement of the impact of the sedement			breeding and non-breeding skylarks have also been proposed as part of the Project	
		31	Chapter 10. Table 10.3	Comisé insoires Non-Name Species (NHS) are not consolred (orly mains and tensions ones their been studied). The entigation for APC rise bouses on the prancial statute fluids and not risks in the face told max.	We note there is no discussion about working in the electric land of the foreston. So greatly provided the provided of the foreston is greatly provided graphings for MAN and option consistent provided the provided of the provided forest work in intertitial areas in required, then are			as detailed in the Outline Landscape and Ecological Management Strategy (OLEMS)	
								(doc ref 7.14), which will form the basis of the Project's Ecological Management Plan (EMP) developed post-consent, secured by DCO Requirement. See also section 24.3.3 of	
								Chapter 24 Summary of mitigation embedded in the design for relevant mitigation for skylarks.	
								This is addressed in ES Chapter 24 Onshore Ornithology (Volume I).	
								20 - This is addressed in Chapter 24 Onshore Ornithology (Volume I).	
								21 - Intertidal works and associated INNS are included in Chapter 10 Benthic and Intertidal Ecology (Volume I).	

NFOWFS3 049 118 040723	Natural England's Key Considerations	Hatter	al Engand s		5-00-00	Onshore	Onshore	22 - There would be no	Υ
NFOWFS3_049_118_040723	Manural England's Key Consistent search Environ-manural formation Report (PER) HIRA - Document(s) Lind' Onl Sciences	NE Ref 22 23 23	Cenned Comment	Ocument We note that device is no measurement of the test of the interest in the measurement of the test of the interest in predictions and the interest in the Control Controllage of the Control Controllage of the Interest in	Recommendation (PAG) We advise incoding test practice guidance Notice to see the page of	Onshore Ecology	Onshore Ornithology	22 - There would be no construction activities within the foreshore or intertidal areas, and as such, all related potential impacts can be scoped out of the assessment. Bird activity recorded within the intertidal and foreshore areas was generally low, and due to the high background levels of human disturbance, mainly comprised species with lower sensitivities to disturbance such	Y
		20	General	Conservation (SAC) sate screened in to the HRA in resident to ensures scoting. We note the avectance of land within designated site boundaries, attributy we	Constitution will fremiddle to required ut required on Annex I tooks that are yallining sunctionally treed tand surrounding the EPA. As			sensitivities to disturbance such as gulls. This is addressed in ES Chapter 24 Onshore Ornithology (Volume I). 23 - The role of the ECoW, if required, will be detailed within the Project's EMP secured by DCO Requirement. Should it be required, a suitably qualified ornithologist would also be appointed to conduct breeding bird checks.	
								Embedded and additional mitigation options are presented, and these have been refined since the PEIR due to the refinement of proposed layout and completion of baseline studies. The ECoW will suitably qualified to conduct nesting bird surveys. This is addressed in Chapter 24 Onshore Ornithology, and the OLEMS (document reference	
								7.14). 24 - The extent and duration of such restrictions would be determined by a risk assessment carried out by the ECoW and/or qualified	

	ornithologist, but it is not
	considered likely that these would prohibit any works from
	taking place during the non-
	breeding season.
	Any restrictions to potentially
	disturbing construction activities during the non-breeding season,
	as advised by the ECoW and/or
	qualified ornithologist, would
	most likely be restricted to key
	times and locations, for example
	a recorded roost site used at high tide by SPA birds.
	Indicative measures are
	provided within the OLEMS (doc
	ref 7.14) and see also section
	24.3.3 of Chapter 24 (Offshore Ornithology) Summary of
	mitigation embedded in the
	design for embedded mitigation
	as well as Additional Mitigation
	sections within the Assessment
	of Significance section.
	The OLEMS (document
	reference 7.14) and Schedule of
	Mitigation (document reference
	2.6) address the seasonality of
	mitigatory measures.
	25 - Noted.
	26 - There would be no
	construction works within the intertidal area, and so all
	potential impacts associated
	with birds in this location can be
	scoped out of the assessment.
	Land to a ODA
	Impacts on SPAs are fully considered as part of the HRA
	(document reference 7.1.1.1).

WFS3_049_119_040723	Natural England's Key	Nature	Empland s	Advice			Onshore	Onshore		Υ
	Section 42 Preliminary Environmental Information Report (PEIR)	NE Ref	PEIR Ref	Comment	Recommendation	Risk (RAG)	Ecology	Ornithology	27 - Intertidal works are included	
				proximity to Hamford Water SAC. SFARamuse site (300m as obsests point).	achieved for all OWF Nationally Significant infrastructure Projects (NSSPs) was years of data is required to support Applications to lake account of intersonnual variation.				in Chapter 10 Benthic and Intertidal Ecology.	
		27			We style that the potential for startidal working (including any additional compound) and placement of rock changing the habitat conditions should be included in the scenering.				28 - This has been considered above. In addition, it would be ensured that mitigation measures required for ecological	
		28	POAA Section 8. DAVB (AVD	miligation for prahare emittingly includes	We advise that any missions included in the Cruştina, shortly the scholarly in the RRA whose in Holises to impacts on despised white This artifician the missions included in crusper 29 We admin that consequences in given to Sunitageas links to Herritors Waller SPA.				or ornithological features would be complimentary with each other, and reference is made in this assessment of proposed ecological mitigation and enhancement measures. These are also considered in the RIAA (doc ref 7.1) as part of the HRA	
		29		We appear with the methodology that has been used to access potential impact	NA				process. The OLEMS (document	
									reference 7.14)and Schedule of Mitigation (document reference 2.6) address the seasonality of mitigatory measures.	
									29 - Noted. See section 24.4 of Chapter 24 Onshore Ornithology for assessment methodology, which follows that previously detailed within the PEIR.	

NFOWFS3_049_120_040723	Names Engineer's Kay Consciousions Section 42 Professionary	non-Arrive	Onshore 30 - Noted. The impacts relating	N
FOWFS3_049_120_040723	Named Begins Page Continued Preliminary Report (Pigel) Assessment 50 Content Gless Assessment 50 Content Gless Assessment	The Comments of the continued required features of grantening and brokening trains and features (Color School Scho	Ornithology 30 - Noted. The impacts relating to ornithological features have been assessed accordingly in section 24.6 of Chapter 24 (Onshore Ornithology). This advice has been noted. The planting of unsuitable crops is not considered to be necessary, because of the relatively small scale of potential disturbance to geese, both spatially and temporally (see section 24.6.2.2.2 in Chapter 24 for assessment of construction disturbance on non-breeding birds). The establishment of unsuitable crops could also result in implications for re-establishing normal cropping cycles and therefore suitable crops for brent geese following the completion of construction activities. A sensitive lighting scheme is not proposed, although good practice would be followed (see embedded mitigation in Table 24.5 in Chapter 24) and where the possibility of lighting disturbance is identified (in particular to Schedule 1 breeding species or SSSI/SPA assemblages), effort would be made to screen construction works if possible, as determined by the ECoW. The onshore cable route has been identified in coordination with Five Estuaries and the ability for one project to lay ducting for the other project has	N

		List of mitigation relating to onshore ecology is set out within the OLEMS (document reference 7.14)and Schedule of Mitigation (document reference 2.6). Measures relating to ornithology are addressed in Chapter 24 Onshore Ornithology.	

NFOWFS3_049_121_040723	Natural Engine To Key Consider alicana Section 42 Preliminary Environmental information	NE Del	PER Ref		Recommendation Roal (RA)	Onshore	Onshore Ornithology	31 - Noted, Embedded and	Υ
	Report (PER)	51		embedded mitigation reading to not carrying out within it overwickling period. We layer with the plans and projects which have been openitient for potential in- sombination effects, namely rive Estuariae, with free Anglie Offiffin, Trems are test?	Agreed HCO shifted Statement and Sheekerd Consequenty Plant Sheekerd Consequenty Plant Sheekerd Consequenty Plant Sheekerd Consequenty Plant Sheekerd S	Ecology	Omithology	additional mitigation is included in the HRA (document reference 7.1.1.1) 32 - In-combination effects are	
	Assessment of ESSI impacts.	38	Vector 2.5 N	sullind to séparate Development Contains Order (DCO) permissiones electric may or may not be granted to altore constitucition within the same brendlaries and/or currencydine streames. Well-valle fluid there or cerdendades collegation in resistors to Hulland Harvins Maynine 5 Stu.)	continual inspects over an elementary period. We nate that the sing entirection is dependent on EAG substation being users locally and the EAG substation being users locally the elementary that is a estimated that this mongative is a convention and activated to ensure there will be			considered in the RIAA (doc ref 7.1), but these projects have also been scoped into the cumulative assessment in	
		34	Para 90	which requires him line of HDD to ereid alred impacts from trending actives the 535s. Holland Nevers Mannins (000) should be considered of high importance when taken	rea beoporary or permissioned include both willber 1998 ISSE. House mide that desire investment accurate the SSSE on expect of the HSD desired also be excluded with an eliminate could be shall be concluded with an eliminate could be Commissionation will also meet to be given to any critical given (temporates because //Yes private this is taken info consideration.			section 24.8 of Chapter 24 Onshore Ornithology).	
								The worst-case cumulative scenario for the construction of the Project and Five Estuaries has been assessed, which for onshore ornithology, is considered to be the sequential construction of the two projects, with a gap of at least three years between construction phases ('Scenario 3'). See section 24.8	
								of Chapter 24 for further information. The scenario of joint construction of North Falls and Five Estuaries is considered in Chapter 24 of the ES.	
								33 - The proposed mitigation in relation to the landfall HDD works would be adhered to, in order to avoid any direct impacts on the SSSI. For further details, see Chapter 5 Project Description.	
								The risk of a bentonite 'frac out' affecting ornithological features is assessed in section 24.6.2.3 of Chapter 24 (Onhore Ornithology).	
								Mitigation measures in the event of bentonite breakouts are included in this ES chapter, as	

	described in Sections 23.3.3 and 23.6 in Chapter 23 (Onshore Ecology), and in the OLEMS (document reference 7.14). 34 - The breeding and non-breeding assemblages of Holland Haven Marshes SSSI have been considered as single IOF, where appropriate, i.e. if predicted impacts are similar for all species. Where this occurs, the assessment of impacts is precautionary, being based on the species with the highest sensitivity to the impact (e.g. furthest disturbance distance). Noted. Section 23.6.1.1 of Chapter 23 (Onshore Ecology) reflects our position that individual species and habitats are of different importance depending on their current status within Holland Haven Marshes SSSI. Therefore, these are assessed separately.

49 122 040723	ural England's Key Natural England's Adver-	Ons	shore Onshore	35 - Noted.		
Consider Section 45 Environment	PEIR Ref Ocument Test Periment Yes make linformation ord (PEIR) 35 Centeral Coverment We note that fasher's extraction wouth a look plant Tory's beautiful test fasher have all 49 M SSS Perime Estudement could be professed on the Wildlife and Country side Act 101s, unround by sychocked under 5-reports of the Wildlife and Country side Act 101s, unround which is a continued to repetit country and impact on the imports public and poverum or to their through who allow the side of	1000	shore ology Onshore Ornithology	36 - Temporary habitat loss within landfall area would be outside of Holland Haven Marshes SSSI – see Figure 24.1 (document reference 3.2.20). Indirect disturbance and impacts due to HDD breakout are however assessed. The design of the Project layout has been refined since the PEIR, taking into account sensitive habitats for ornithological features. This has included keeping landfall infrastructure away from the lagoon and wetland areas of Holland Haven Marshes SSSI where the highest bird counts were recorded (see Figure 24.1, document reference 3.2.20). Mitigatory measures for habitats potentially affected by the Project are addressed in Sections 23.3.3 and 23.6 of Chapter 23 (Onshore Ecology), and in the OLEMS (document reference 7.14). 37 - Mitigation measures in the event of bentonite breakouts are included in this ES chapter in Sections 23.3.3 and 23.6 of Chapter 23 (Onshore Ecology), and in the OLEMS (document	Y	

FOWFS3_049_123_040723	Natural England's Key Considerations	Natur	rai England's	Advice			Onshore	Onshore	38 - The potential for impact is	Υ
3111 31_3112 1212 13112	Section 42 Preliminary Environmental information Report (PEIR)	NE Ref	PEIR Ref	Comment	Recommendation	Risk (RAG)	Ecology	Ornithology	considered to be low given the depth of the drill (20 m). A	
				gracticate. " Fabr 21.6 yeller to an "Ordine" 1900 Method and riself flows Cur. Collegeory flow that will be pulled as part of the DCO Application."	of England, these syems stories with the HIDD. There is an increased that of the Dring Index say being maintained and bendone disting must librarouse and. In some wome size scenarios, consuserate sinchosis occurring, both of which would be a common to the register woodular part and algunic enventionals communicate within Holland-Hauser Marchine SSSI. Therefore further geotechnical data is required within an HIDD stak- arymanism to provide containing these lesses will not good. The state of the service will not good.				detailed assessment of drilling below the existing flood defences will be undertaken post-consent (i.e. at detailed design).	
		¥	Convent	Natural England note that the HDU will have to go under hard sea defences at bord of HHM RSSI.	seconder syndricher impace. Ansura Engine quines at en empreoring assessment has been undertaken to ensure the triber despression in the defense, and or through will cut inconsistating the lovering of the defense, including the provision of the defense, including the provision of hemporary defence mechanisms in the remodal and/or the charactering of the RFO as a result of increased seers. Idon scenario could constrately lead to impagate an incremental implications because I the locations of the sail pits investigating are paramount to determining the segmentary traveller are paramount to determining the segment of the ISSU by emission of the sail pits investigating and construction detriviers remain outside of the solidated sail.				This is addressed in Chapter 21 Water Resources and Flood Risk.	

		screening would be considered by the ECoW and monitored to ensure legal compliance with the Wildlife and Countryside Act 1981 (as amended).	
		1981 (as amended). Measures to avoid disturbance would be included in the EMP secured by DCO Requirement and would be enforced by the ECoW during the construction phase, which would cover the whole onshore project area. An Outline Landscape and Ecological Management Strategy (OLEMS) (Document Reference: 7.14) has been prepared and submitted with the DCO application, which includes outline measures. The EMP will be based on the OLEMS.	

Natural England in Nay Natural England in Na
ECoW supervision and habitat reinstatement. Comment Comment

IFOWFS3_049_126_040723	Other Onshore Related Matter	rs					Onshore	Onshore	44 - Noted.	N
5 50_5 .5_125_5 .6726	Second Description	T-		Alterior Control of the Control of t	No. of the last of	100	Ecology	Ornithology		.,
	Section 42 Preliminary Environmental information Report (PEIR)	NE Ref	PEIR Ruf	Comment	Recommendation.	RAG)	Ecology	Ornithology	45 - Noted. This is addressed in	
	Other Onshore Related Matters	-		1-					the Biodiversity Net Gain	
	Oceanore Protected Species		Commen	Hatural England has produced <u>storour</u> <u>specific</u> is help planning authorities understand the impact of perficular developments on protected specific. We excess you service to the rate in this author. Natural England will only provide bespoke activities on protected specific where they form part of a Site of Specific Secretific interests or in remember.	The ES should assess repeats on protested species or see with Natural England's standing statice. Any depositures from standing statice. Any depositures from standing solvice will need to be clearly highlighted, justified, and sesociated risks shread by assessment and appropriately miligated.				Strategy (Document Reference 7.22) and the OLEMS (Document Reference 7.14).	
	Biodiversity Net Cale	45	General Comment	Planning Policy Framework) paragraphs 174(g), 179 and 950. Development east [20xxless opportunities to secure wider environmental game: as duthered in the NPPP (presympths 8, 73, 104, 120, 174, 154, 154, 154, 154, 154, 154, 154, 15	designed for use where certains otheria are met. Natural England's Environmenta flace for tun- zione nor may be used to spently nature and to avoid and minimum any negative impacts.					
	A THURSDAY		ero es ple	The state of the s						

Onshore Onshore 46 - This is addressed in the N Foology Ornithology OCoCP (Document Reference	Recommendation Risk (RAG)		PER Ref	15000	Environmental Information	NFOWFS3_049_127_040723
Month Magnet Management Management	(RAG) We recommend their a Soil Management Planting Page 1 and 1	Comment Where crisis measures are not possible, you should comment the sile measures, you should comment off eals measures. Open handles be embaricament rengel include Restoring a neeting off in sile and a second of the sile. Planting the measures handles on a second of the sile. Planting the chandles that to be local ame to color in social and consideration in the timal embarcage. Dang melve plant in handlocating exhibition of being measure and other needs and being comment of their needs and produces the handlocating with consideration of their planting and their sile and consideration. Local planting quickness are matchinely coloried and published and coloried and	PER Ref &	NE. Ref	Enviropremental Information Report (PEIR)	-OWFS3_049_127_040723

DWFS3_049_128_040723	Section 42 Protiminary Environmental information Report (PEIR)	NE Ref	PEIR Ref	Comment	Recommendation	Onshore Ecology	Onshore Ornithology	47 - This is addressed in Section 23.6.1.5 of Chapter 23 (Onshore	N
	Report (PER)			significant engineering for further loss of Dook and most versalitie agricultural land, we around be pleased to discuss the matter further;	same route could marriade the samage and chilorowice to some			Ecology) and in the OLEMS (Document Reference 7.14).	
				Richlance on soil profession is available in the Defin Computation Color of Projection for the Saurahaman Lips of Sons on Computation Color of Sons on Computation Color of Sons on Lincol to the Color of Color of Lincol to the Color of Color of Lincol to Color of Color of Lincol to Color of Color of Lincol to Color of Lincol to Lincol to Lincol to Lincol					
The desired and the second and the s				Should the development problem we solve that the developer uses an appropriately experienced and specialist to advise on an supervise sall sharefully including identifying when soles are thy enough to be handled and now to make the best use of soles on site.					
	Ancient Woodland and encient/Veteran Trees	47	Comment	You should consider any impacts on ancient workland and arched and veleran terms in fine with paringraph 180 of the NPPE Natural England maintains the Ancient Whoolland inventory which can finip identify account vertication.	An Ancient woodland and Ancient/Veteran Tree management chan should be included, with the Application				

IFOWFS3_049_129_040723	Reserve Employee Nov.					-	Onshore	Onshore	48 - This is addressed in the	N
	Section 42 Preliminary Environmental information Report (PEIR)	NE Ref	PEIR Ref	Comment	Recommendation	Risk (RAG)	Ecology	Ornithology	OLEMS (document reference 7.14).	
			General	Forestry Communican have produced <u>Interiors service</u> for planting authorities in reliable to acceler acceleration of an extent and veteral tries. This invoid be taken it account by gateria planning subjections when determing reserved planning applications. Name of England will only provide the Seycola whose on ensured sociality, access and veterant types referred large form part of a 5th of Exposite Streetfile interiors, supporting the product conversations. Paragraphic 100 and 124 of the NPPP.	A Public Rights of Way management plan				49 - The King Charles III England Coast Path is noted as part of the existing environment in Section 32.5 of Chapter 32 (Tourism and Recreation) and is	
	Connecting people (with nature (Hasarata Fine), (with noces) tand and England Coast Path)	(Nessonal Trille, upon access land and Ergland Coast Páth) and Ergland Coast Páth) (Indian			considered in the assessment within Section 32.6 and Section 32.10 of Chapter 32. The assessment assumes that the King Charles III England Coast Path will be open by the time					
	49 General There are possible implications to Comment King Charles III England Goset Pa	There are possible implications for users of	We advise due regard to achieve design and timings of project works are given to avaid imposts as fire as producible to coastal access. England Coast Path is likely to be open this area by summing 2005 at the outliest:			onshore construction works begin.				

NFOWFS3_049_130_040723	Annex 7. Seascape, Landscape and Visual Impact Assessment Natural England is the Government's statutory adviser on landscape, the designating authority for National Parks (NPs) and Areas of Outstanding Natural Beauty (AONBs), and the defining authority for Heritage Coasts in England. Natural England's comments relate only to seascape, landscape, and visual effects associated with the statutory purpose of the Suffolk Coast and Heaths Area of Outstanding Natural Beauty (SCHAONB), the special character of the Suffolk Heritage Coast (SHC), and their seascape settings. The presence and special character of the SHC within the SCHAONB helps to define that part of the designated area which is most likely to experience significant adverse effects arising from the North Falls scheme. Although a defined rather than a designated landscape, the SHC covers a geographical area, which lies wholly within the SCHAONB. To understand the likely extent of the indirect onshore influence of the North Falls scheme it is therefore helpful to refer to the boundary of the SHC. In preparing this response, the following sections of the Preliminary Environmental Information Report (PEIR) have	Seascape and Landscape Visual Impact Assessment	Noted.	N
	In preparing this response, the following sections of the			

NFOWFS3_049_131_040723	Natural England's Advice and Recommendations A preamble has been provided along with a summary of Natural England's advice in relation to Offshore Seascape, Landscape and Visual Impact Assessment is set out in Table 1. Our key concerns along with recommendations are presented in further detail in Table 2. Preamble 1. For landscape and seascape effects both within and outside of the SCHAONB we advise that close attention is paid to the comments and advice provided by the relevant Local Planning Authorities. 2. We also recommend that close attention is paid to any advice provided by the SCHAONB Partnership. Their detailed local knowledge of the designated landscape, its special qualities, its management needs and the relationship between land and sea in supporting the area's statutory purpose will provide greater depth and detail than can be provided by Natural England. 3. Natural England offers its comments and advice without prejudice. Our comments and advice on the landscape, seascape and visual effects of the offshore elements of the scheme may change as further evidence and information emerges as a part of the EIA process. We may also receive other relevant information from the local authorities, the SCHAONB Partnership or other sources. Natural England may also conduct site visits to further its own evidence to inform our comments and advice during the Pre-application phase and may continue to do so until the end of the Examination process.	Seascape and Landscape Visual Impact Assessment	Noted.	N
NFOWFS3_049_132_040723	Note about Turbine Height and Proximity to the Coastline of a Designated Landscape In the last 20 years offshore wind turbines have increased significantly in output capacity and size. In relation to the coastlines of designated landscapes, this upscaling has seen an increase from 132m high/3.6MW turbines (Sheringham Shoal OWF - Norfolk Coast AONB - closest point 17km) to 181m high/6.3MW turbines (Galloper OWF - Suffolk Coast and Heaths AONB - closest point 29.3km). The emerging turbines are 15MW to 20MW and reach heights in excess of 397m, as is proposed for North Falls OWF. When viewed from any given location, the bigger the structure the greater the visual prominence it will have. Similarly, the bigger the structure the greater the distance (and geographic area) from which it can be seen from, and the greater the likelihood that individual structures or a collection of them will be prominent within the view. This is especially the case for offshore wind turbines and arrays because there is no means to screen them. These basic	Seascape and Landscape Visual Impact Assessment	Noted.	N

	principles have guided our appraisal of this proposal and our subsequent advice. We have also used our experience of, and drawn visual comparisons with, the Galloper OWF and Greater Gabbard OWF arrays which are already located in the seascape setting SCHAONB. We have used these two arrays to draw comparisons with the predicted effects of North Falls to illustrate the likely influence of the			
	upscaling in technology on the seascape setting of the SCHAONB and SHC.			

		DESCRIPTION OF THE PARTY OF THE	I Seascane and	 Noted.	l N
3_049_133_040723	Summary of Key Concerns	Natural Englands Hagoman and American Indianante Islands	Seascape and	Tiolou.	1.
1	We across that the North Falls OWF has the polential to	We advise the assessment is copylished to reflect title.	Landscape		
	cause major adverse effects on landscape and value	West of the second of the seco			
	receptors within the SCHACNB and SHC. We advise these		Visual Impact		
	are significant by the purposes of Environmental Impact				
	Assessment (EIA). These major adverse effects are tiles to eccur stong a ~39km stretch of coastine between Duminch		Assessment		
	Countries of Colleges In Basicistry Marxx, and notably-at		71000001110111		
	Ortical Ness. As a result of these effects, we advise that				
	further harm to the natural beauty of this SCHAONE and				
	special character of the SHC will social	the state of the s			
2	Natural England has poistancing concerns regarding the moderno used to assess the potential harmfrom the North-	Americal the submitted Environment Numbers to collect Yumani Engineers of substant			
	Fells DWF (and particularly with regard to the North Arisy	- STATE - STAT			
	AVBS) On the statutory purbousis of this SCHACNIE and				
	SHC. These concerns are detailed in Ta-3g below				
Za	We fall to understand how the assessment of special	Natural England considers the lack of a formal assessment of impacts to the source			
	quanties (as set out in Table 29.13) receive to the	quinter listed by the SCHADNB management plan is a major orinision and			
	SCHACKS listing of special quantities as not out in the Management Plan 2016 - 2021 and related documents As	about the assument must be excluded in the Environmental Statement.			
	presumted the potential impacts from the front if all OWF				
	on the Hatural beauty, as expressed through the special				
	qualities of the SCHAONB and the special character of the				
20	SHC will not executed within the SLVIA. No sumil calon is provided for the 20se illustrated in	See stilling comments raction below and oppose assument in the light of the			
	establish the outer limit of significant sessione immorpal	SOUR SERVICE CHANGE INCOME CHOOSE BUT OF COME SERVICE AND			
	and visual effects				
20	We achiese that the significance of effects, in FIA terms.	We asknow the assessment is revoiled in light of the advice			
	from the North Falls OWF on some landscape and visual	The second secon			
	receptors located within the SCHAONS and SHC (ins- expensed at very points from Covertifier to Bawckey Manor).				
	have been underestment	the second secon			
26	There is insufficient evidence to be certain that the	Forther excessor will be required in the assembled E.S.			
100	maximum height scenario is the Worst-Case Scenario	1957 Charles Tales Market Lance Control			

FOWFS3_049_134_040723	NE Ref	Summery of Key Comments	Named England's Recommendations to Resolve Issues.	Seascape and	Noted.	N
3 111 33_3 13_ 13 1_3 13 1 23		(WCS) to be sicie to fully assess the potential impacts to the SIONAONE and SHC		Landscape	. 101001	
	2e	We disagree that the North Falls OWF will have no significant participate impacts on the SICHAONS and SHC	We active the autoritied intersected is updated to reflect Natural England's active.	Visual Impact		
		Peragraph 107 of the SLVIA states that there are no immunoperation proposets. Natural Enginesis advanta- tion repeats have the North Fello Will on the statusary purpose of the SCHAONB and SHC are highly dependent upon the design proximates of the project. We consider that the William or the Consideration and the time of the Application seasoners that tills or one consideration.	We advise that the Applicant should demonstrate in the submitted ES how Gool Design has term considered. Design has term considered. We advise that, to help activities Good Design the Project should back to establish some design principles, which may not prevent a keynificant impact occurring. Dut have the potential to reduce the seventy of it. We go when the followers conductation of the ways in which design pain and to neclose the segregative alerent of the proposes and the second to reduce the segregative advisers for the proposes and the second to reduce the project advisers that the proposes and the second to reduce the project activities. As the project is reduced to the proposes and the second to the proposes the second to reduce the project activities. The Applicant should consider projects are suchable development on the Northern areasy area and common to sumption because the projects and the projects are second to the projects are second to the projects and the projects are second to the projects are secon	Assessment		
	20		Please provide cranty in the submitted ES regarding effects on upers of the country			
		rung Une to all Englan Casses Parin a Unicos				

Section of Principles Section of Principles Report Princip	Section 42 Preliminary Environmental Information Real Plant Plant (PAG) Real Plant P	Section of Preference of Prefe		Natural England's	Advice		Seascape and Landscape	Noted.	N
The potential impacts from the North Celement To Describe the Service from the North Celement To Describe the North Celement To Describe the Service from the North Celement To Desc	Report (PLIR) This potential impacts from the North Fall Order on the natural season of the STACAPO and th	Telefonia desegrated translations and the separated impacts from the Nettern Falls (Order on the neutral Sealarly of the Nettern Falls (Order on the neutral Sealarly of the Nettern Parts) (Controlled and the separated sealarly of the Nettern Parts) (Controlled and the the Nettern Parts	Control of the Contro	NE PERRA	Communit	Recommendation Risk	Visual Impact		
Tollowing Comment Description of another implicits sheet the first the selected of the first shall be selected of the sheet between the first shall be selected of the sheet between the first shall be selected of the sheet between the first shall be sheet the first shall be sheet to the sheet the first shall be sheet to comment and Description of present advisors that the global and the sheet the first shall be sheet to comment of the sheet the first sheet the sheet to comment of the sheet	Designated anotacopays Designated demonstrating the potential impactors their instanced area of the instanced	District of the potential imposters when the North Paris Certified in the instituted search of the instituted of the ECHALONIa and the appeals of character of the Instituted	Report (PEIR)	Ref		IRAG	Assessment		
sommers! by splittle of the CCHACNAI are to control to the splittle of the CHACNAI are to control to the splittle of the CHACNAI are to the Splittle of the S	sommers! by splittle of the CCHACNAI are to control to the splittle of the CHACNAI are to control to the splittle of the CHACNAI are to the Splittle of the S	sommers! by splittle of the CCHACNAI are to control to the splittle of the CHACNAI are to control to the splittle of the CHACNAI are to the Splittle of the S	National designated landscapes	Comment	Falls OWF on the natural beauty of the SCHAONB and the special character of the EHC are not	submitted EE and that the further detailed	7 GSCSSMCIII		
Discussed Obstance: Tables 20-13, which details the commerce is accommenced in process of one between processing of processing of the between processing of the between processing of the SCHACHAS. Institute of the SCHACHAS and seek to be se	Discussed Obstance: Tables 20-13, which details the commerce is accommenced in process of one between processing of processing of the between processing of the between processing of the SCHACHAS. Institute of the SCHACHAS and seek to be se	Discussed Obstance: Tables 20-13, which details the commerce is accommenced in process of one between processing of processing of the between processing of the between processing of the SCHACHAS. Institute of the SCHACHAS and seek to be se			qualities of the SCHADNB are incorrectly identified in the PEIR (as set use in Trade 29.13). The Applicant has appeared to confuse Suffice County Countil Landscape Chanacter Types (LCTs) descriptors by appear qualities.	May informed decision, the impacts of the North Falls CHIV on the special qualities of the SICHARDE must be fully essented within the SICHARDE must be fully essented within the SICHARDE SICHARDE MAY prompted to 39 confirms that the conservation of ealistant beneigh should be given subdistrible weight in the conserving process, essentially the management of the conservation or consist The special consistence of the SICHARDE we obtained in the following characteristic of the size of the special state of the proper is a following characteristic of the special or provided contents of the special state of the property of the special state of the special state of the property of the special state of the special state of the special stat			
				35 Detained comment	Falls OWF on the SID-WONE refers to	We advise that the needs to be updated to include			
								the state of the s	

DWFS3_049_136_040723	National Engineer's Key Committee above	Manu	ret England v Al	tytos			Seascape and	Noted.	N
	Section 42 Preliminary Environmental Information Report (PEIR)	NE Ref	PEIR Ref	Communit	Recommondation	Risk (RAG)	Landscape Visual Impact		
		T		County Council Landacape Character Assessment, reflex fil an the spacel qualities of the SCHAONIII			Assessment		
		×	Detailed convened	Table 29.13 was stalled that the LCTs. Open Countil and Wooded Fern, and Estate Sandlands and Rolling Estate					
		3d	Detailed comment	Natural England advises that this	We achiev that by base of understanding, this selection is incorporated into the SLVIA, as it will asset in the better understanding the effects on the				
		•	Overarching Comment	Justification is not provided for the 30km threshold used to establish eignificant seascape, landscape and visual effects.	We admin that justification is provided and that the further detailed comments below and booksaled:				
		44	Detained comment		The advise that Appendix 29.1 should include a description as to how the 30km threatnic has been				

OWFS3_049_137_040723	Natural England's Key Considerations	New	rai England's A	dylca		Seascape and	Noted.	N
	Section 42 Preliminary Environmental Information Report (PEIR)	NE Ref	PEIR Ref	Comment	Recommendation Rak (RAG)	Landscape Visual Impact		
				stocurrent also makes a reference to Callisterhall ornature wind faco which is not the suspect of this consultation and fusins no part of the North Falls application.	excitable of in reliation to the fillate study area using the fit VIA.	Assessment		
		49	Detailed converses	The most recent flavors and appeared in present and visual flavors fla	We also note that the Appropriate has not referred to this document atmosph they do refer to the "surface Exercises Sensitive to Children West Farms, Suffelt County Council and Suffice Count and Healths ADM Partnerships (200"			
		*	Detailed commons	Table 4 of our response below confirms that visually algorificant views of the North Farts OWF furbines are still possible from Viewpoint 1 of Counhilfre, joint 47bm away from the SCHADNB and SHC.	We advert that the Applicant is extension their assessment in light of the advice.			
		8	Overarching comment	We advise that significance of effects (in EIA terms) from the North Faits OWF on visual receptors at the ten assessed viewpoints from Covehilhe to Bawtisey Manor, (all located within the SCHACNE and SHC) have been underestimated.	We advise the assessment is the evaluated and the successment ES accusately estimates these mounts.			

Section of Preliminary Convariants and Information Report (PSR)	las No.	PER Ret	patich are situated within the SCAACONE and SPACE These shifted are SCAACONE and SPACE These shifted a set SCAACONE and SPACE These shifted and Affordable at Affordable at Affordable and	Natural England Schellers that based on the observation predicted we eleven support the enginestery of mount-light must have been assigned to threat areas and activity that this is arrunded to right in the submitted Eil.	Seascape and Landscape Visual Impact Assessment	Noted.	N
	Sto	Detased	patich are situated within the SCAACONE and SPACE These shifted are SCAACONE and SPACE These shifted a set SCAACONE and SPACE These shifted and Affordable at Affordable at Affordable and	Natural England Shakes that haked on the sensitivity of the sensitivity and the sensitivity support the engalishing of mouth engine the sensitivity of mouth engine the sensitivity of most sensitivity of most sensitivity of the sensitivity of	Assessment		
	Sn	Detailed commant	Somewhard of the translationer recognise among the SCHADB and SERIC is begin, and an indextun-login as judged by the apparatum. The SCHADBB is a national proposed to the SCHADBB is a national dissipation of the SCHADBB is a national proposed to the schadbb in the schadbb and an a statistical purpose to conserve with an anatomist that indextuned to the schadbb in the schadbb in the schadbb in the schadbb in the schadbb in the schadbb in the schadbb in the schadbb in the schadbb in the schadbb in the schadbb in the schadbb in the schadbb in the schadbb in product to the schadbb in the schadbb in Applicate to pulse schadbb in product the schadbb in schadbb in the schadbb in schadbb in	intermitation pre-inferted we earned support the enerositivity of mour might must make even assegment to finate sheat and activity that this is entereded to regis or the sublemitted Elli.			
			cleany articulation.				
			ORIGINA ASSOCIATION				

IFOWFS3_049_139_040723	Natural England's Key Considerations	Nato	rai England's	Advice			Seascape and	Noted.	N
	Section 42 Preliminary Environmental Information Report (PERI)	NE Ref	PER Ref	Communi	Recommendation	Risk (RAG)	Landscape Visual Impact		
		b:	Detailed comment	Natural England advises that the Ingit sensitivity of the SCHOMS and SSH to Middlew and SSH to Middlew and SSH to Middlew and Selection and all years of the SSH to Middlew and Middl			Assessment		
		5d	Detailed comment	Name of England chapters with the Applicant's pulperses of the magnitude of officed at all sea seasoned seepons with in 10-AAON land SHC. The stan and swale of the scheme will appear land the stan of any consumed or purposed OWF within the seasologic standard of the SCHAPON and SHC. The peoplashold earth of the land influenced as land of the land influenced as land influenced inf		ı			
				emperced a also considerable					

DWFS3_049_140_040723	Securit Error of a Key	Net	and England's	Admin		Seascape and	6 - The worst-case scenario, in	N
	Section 42 Preliminary Environmental Information Report (PER)	NE Raf	PEIR Bul	Comment	Recommentation	Landscape	terms of seascape, landscape	
	report (runs)	54	Detailed communi	This blacks Falls achieve is a said between that arity areas (which say time to as the said term array area and acultiment area areas even a regime and acultiment array areas even a regime and gast of ~20km between Belliu. We achieve that within the gast the beaution to a said the said that are said to a said the said that are said to a SCHADNE and SHAD are SHAD and SHAD are said to a said the said shad.	This should be roted in the submitted E.S.	Visual Impact Assessment	and visual effects, is judged to be the smaller number of larger turbines (rather than larger number of smaller turbines). The	
			(hotestes) opmissant	SURFACES and SYNL. The positional areasy of 10 case from the SCHADNES and SHFL are many to worked a large promiter of parameters of stage promiter of parameters of stage and the stage promiter of parameters of SAP. EARN and of the SCHADNES, indication. This measure that if the SCHADNES of ONE's control and the stage promiters of the form the SCHADNES and Stage part and some work (Schaben and Schabens).	atteon to the to continue on travel of the project and possiblely described within the solution by		largest turbine size under consideration will create the largest viewshed and will be	
		4	Oversrchin		Refer to detailed comment swow		more prominent in views from the coast. Further information on the approach to worst case for	
		Gri	Detailed comment	Paragraph 26.3.2.1 status that for assessment purposes the smaller number of larger business will result in charger status a solid for the larger status of the subvises and therefore this is judged to see the excellent accountry. Newtown, the SVA presents.	We salvas that this yeappry is presented and assessed for veryprims 2 – 10 and 17 pecuales. The accuracy respirate respirate of the 310m harmonic are sell potentially approximate at these conforms (see Table 4).		the SLVIA is set out in Section 29.3.2 of Chapter 29 (Seascape,	
							Landscape and Visual Impact Assessment).	
							Wirelines from selected viewpoints have been provided to show both scenarios, see Figures 29.3.3 to 29.3.17 of	
							Chapter 29.	

NFOWFS3_049_141_040723	Nameral England's Key Considerations	Netu	rei England s A	dvice			Seascape and	7 - The cumulative assessment	N
NFOWFS3_049_141_040723	Namural England's Ray Considerations Section 42 Prefinitionary Environmental Information Report (PEIR)	Netu NE Ret	PEIR Ref Oversrching comment Dessied comment	Comment no photomortage evidence detailing now the T2.310m Lutches would appear from lay versporals arrive the SCHAONB and SHC. We disagree that the North Falls OWF will have no significant cumulative impacts on the SCHAONB and SHC. This SLVM does not first any alterests between the significance of ergotot on the CHAONB and SHC, where the project is considered allows or in proper is considered allows or in proper in comments of the CHAONB and SHC, where the project is considered allows or in property is considered allows or in provider in the considered allows or in provider in the considered allows or in provider in the considered allows or in the considered all	The impacts of densifying the contiern array area on the potential to views dut to cas from the SCH-KNMB and SHC flaver to detailed comments below. Refer to detailed comments below. Given that the Cumationive St. VIA (CSL VIA) will be a key requirement of the EIA, as applicant controlline eliminate horse layer controlline eliminate than the post controlline eliminate than the North Falls KNMF will properly to the statutory purpose of the SCH WCNB and species character that the North Falls KNMF will properly to the statutory purpose of the SCH WCNB and species.	Rok (RAG)	Seascape and Landscape Visual Impact Assessment	7 - The cumulative assessment presented in this assessment has been re-structured, to avoid any potential confusion in terms of reporting of cumulative effects. Further detail on the approach to the cumulative assessment is provided in Section 29.4.3 of Chapter 29 (Seascape, Landscape and Visual Impact Assessment).	N
				consented so proposed) However, the assumment does like the potential for significant (mobile townshire effects at velocities 16, 8, 16 and for invest of the Suffice Coast Path I Nong Charles III. England Chastal Path. These symbolic curridative effects are ruide out lissed on an assessment that: When visible on clear days, offsicher eiter farms will occupy is side extent of the assessed motion in views to the desired from a side occupy. I write the assessed motion in views to the cases and south-east. This visible before see Development in the cumulative picture too. As such, the Offsicher Above-less	porce providey.				

FOWFS3_049_142_040723	Natural England's Key Considerations	Nagara	Ergand's A	Advice		Seascape and	Noted.	N
	Section 42 Preliminary Environmental information Raport (PEIR)	NE Ref	PEIR Aut	Comment	Residention (RAG)	Landscape Visual Impact		
				Development is not judged to up the believed towards tolar consistive effects being agnificant?		Assessment		
				in the control of the		Assessment		

Section 42 Preliminary Environmental Information Report (PEIR)	NE Ref	PEIR Ref	Comment	Recommendation 1	I amala a a a a		
					Landscape Visual Impact		
			cause. The Applicant's conclusion is that due the presence of the casting DNF in presence of the casting DNF in presence in the casting DNF in presence in the presence of the casting preparate stem to the strategy purpose of the SCHAO'MS and the special changes are sent the provided in the presence of the SPIC. Network England disagrees with the provided in the terminal for the terminal terminal sent the special sent of the terminal sent the sent th		Assessment		
		Denated convenent	Numeral England requests you the mellinatology dealing from the publishment of the controllative should be application of the controllative should be applicated by providing Application States and Applicati	Please provide the nemopology and certication on the assessment terms used in the submitted ES			
		Debaled - commant	Pleagraph III, of the SLVIA states that some vewpoots illustrate key cumulative interactions.	We advise the submitted assessment identifies, which verspoons these are and very they have been selected.			
		Overarching comment	Paragraph 197 of the SLVIA states that 'there are no landscape miligation proposals'.	We advise that the Agriculor haves the principles of Good Design with consideration and aluminishes how they have been applied in the submitted ES			

FOWFS3_049_144_040723	Seasons Engineer & Key	Name Toursel's			Seascape and	Noted.	N
	Section 42 Preliminary Environmental Information Report (FEIR)	NE PER Ret		Recommendation Rosk (MAU)	Landscape Visual Impact		
			returner Cingence declines that Projects New York Residence of the GS-MACHE shadowy purpose of the GS-MACHE SHC-S with the plays approximate upon the shadowy purpose and the purpose. We shadowy purpose the purpose of your in the resignation to the shadowy pown in the resignation to the shadowy and the section 4-5 of CH- T. The alternative absorbance in the staffer consideration for Application That Shadowy and the purpose of the staffer consideration for Application That Shadowy and the purpose of the Shadowy and the shadowy and the shadowy and the shadowy and the shadowy and shadowy and		Assessment		
		64 Detailed Continued	The Tentimes (these or one (MCS) of the continue continue can be predefined in the continue can be predefined in the Suprema fairning the predefined being of the SCHARONS and the Spokerove. The difference is existed with the progression is existed in the progression of the SCHARONS and the progression of the scharos will be continued and the continue will be readily grown or winds on the SCHARONS of SCHARONS and SCHARONS of SCHARONS and SCHARONS of SCHARONS				
			to a SOACAN / sprC. Fair extension at Orbor Ness.				

FOWFS3_049_145_040723	Ratura Empand's Key Considerations	Natural Engine	's Advice	-	Seascape and	Noted.	N
	Section 42 Preliminary Environmental Information Report (PEIR)	NE PER RO	Comment	Recommunication Risk (RAG)	Landscape Visual Impact		
	salton (Lead)		me North False Surfamini will appose at an engine Palego of Invanity in degree (222), degrees, see Fasse 46, lin companies for General Guidannia of Gelioper surfamini will appear to fall administration for Gelioper surfamini will be their of this larger for 2788 and 0.31 degrees reasonable (3). The larger for 2788 and 0.31 degrees reasonable (4). The larger for 2788 and 0.31 degrees reasonable for the entities ground for the entities ground of the entities ground for the entities of the en		Assessment		
			Enthies of the Gallopei array, i. The Street mont residently schames in the swritten array area are so large that				

NFOWFS3_049_147_040723	Natural England's Ney Considerations	-	nsi England e i		2-1		Seascape and	9 - Sequential effects from the	N
	Section 42 Preliminary Environmental Information Report (PERI)	NE Ref	PEIR Rat	Comment	Recommentation	Risk (RAG)	Landscape	Suffolk Coast Path and King	
				lansscales eind visual change along the locations of the SCHANDIS and SHC, we alone that there is insufficient information to discount agentium. Imposso to undergoed and visual in insignition between years particular insignition between years particular in many particular and the service of and particular and there is not there is grateriald for agentium a silicito. Intern the confirment and present and sent is seen principles. International confirment term the confirment and the Environmental Statement to determine Environmental Statement to determine			Visual Impact Assessment	Charles III England Coast Path have been considered. See Section 29.5.4.4and Table 29.39 of Chapter 29 (Seascape, Landscape and Visual Impact Assessment).	
		9	Overarching Commant	whether or not this is the case. The assessment of the sequential nature of possible visual affects associated with users of the Guffolis Coastal Path is unclear.	We advise clarity a provided on this elittin the submitted associations.			7 Gocoomenty.	
		544	Comment	We are unable to find evidence in the SLVIA to eupport the conclusion that seguintial effects become programma revolutions of tirrower beauto.	Prince provins everence of animal the submitted to the submitted				
		90	Detailed Curreners	What is the box distance along which covers of the furfick Countil Plats / King Chartes in English Countil Plats are than to expension revidenate adverse affects?	Pre-private this information on the folial distance is provided to the submitted ES				
NFOWFS3_049_148_040723	Nature Engineers Key Considerations	ture	ros England s	Advica			Seascape and	Noted.	N
	Section 42 Preliminary Environmental Information Report (PEIR)	ME Raf	PEIR RM Detailed Contract	provided in Figures 29.2.17a, h and c	Recommendations A full assessment of this riewcount strougl be presented within the submitted 5LVA, and finel the image case displays the correct distincts from the North Fasts CVVF.	tisk RAG)	Landscape Visual Impact Assessment		

NFOWFS3_049_149_040723	Natural England commentary to inform the final SLVIA SLVIAs (and LVIAs) have a tendency to be complex, highly interconnected, and multi-faceted documents which reflect the nature of their subject matter. Assessment of effects upon the natural beauty of designated landscapes and the special character of Heritage Coasts only adds to this complexity. NE has reviewed many SLVIAs and LVIAs since the introduction GLVIA3 in 2013, and we now have considerable experience in distilling out those aspects of the assessment which pertain to designated landscapes. GLIVA 3 provides a pithy reminder of the pitfalls into which LVIA / SLVIAs can fall into (paragraph 3.35 p.41). The 3rd bullet point states that 'losing sight of the most glaringly obvious significant effects because of the complexity of the assessment' should be avoided. In order to assist North Falls in preparing their submission, Natural England offers the following simple clear and accessible explanation of the issue as we understand it.	Seascape and Landscape Visual Impact Assessment	Noted.	N
NFOWFS3_049_150_040723	397m Turbines In relation to 397m turbines being located within the northern array area, Natural England has two key concerns, which are i) the size of the turbines and ii) their location being too close to the coastline of the SCHAONB and SHC. Natural England's advice is that their presence in the seascape setting of the SCHAONB and SHC will further degrade the quality of views out to sea. In particular, when seen from Orford Ness, their size, combined with the marked contrast in height with the existing wind turbines, will create a visually incoherent and cluttered seascape. This will lead to a further loss of natural beauty for which this highly sensitive landscape was designated. It will increase the industrialisation of the seascape setting of the SCHAONB, leading to further loss of the sense of wildness and tranquillity which is still, despite the presence of the Galloper OWF and Greater Gabbard OWF arrays, a special quality of this remote coastline. The introduction of the consented EA2 OWF will only erode this special quality further. Additionally, the proposed turbines located within the southern array area will also introduce a sense of industrialisation and clutter into the seascape setting of the SCHAONB. However, the adverse influence of these turbines will be less than those located in the northern array area and will likely be confined to a stretch of coastline from the southern coast limit of the SCHAONB (Old Felixstowe)	Seascape and Landscape Visual Impact Assessment	Noted.	N

	to Orford Ness. However, their presence in the seascape setting of the SCHAONB will further degrade the quality of views out to sea. As with the northern array, when seen from Orford Ness their size, combined with the marked contrast in height with the existing arrays, will create a visually incoherent and cluttered seascape, leading to further loss of the sense of wildness and tranquillity.			
NFOWFS3_049_151_040723	In relation to the 310m turbines being located within the northern array area, Natural England has two key concerns, which are i) the size of the turbines and ii) their location being too close to the coastline of the SCHANOB and SHC. This is true for all but the northern coastal portion of the SCHAONB i.e. those portions lying beyond Dunwich. Their presence in the seascape setting of the SCHAONB will further degrade the quality of views out to sea. When seen from Orford Ness their size, combined with the marked contrast in height with the existing wind turbines, will create a visually incoherent and cluttered seascape. This will lead to a further loss of natural beauty for which this landscape was designated. It will increase the industrialisation of the seascape setting of the SCHAONB leading to further loss of the sense of wildness and tranquillity which is still, despite the presence of the Galloper OWF and Greater Gabbard OWF arrays, a special quality of this remote coastline. The turbines located in the southern array area are unlikely to have a significant effect on the special qualities of the SCHAONB and special character of the SHC alone, although they will add to the visible presence of the Galloper OWF and Greater Gabbard OWF arrays and should be considered in the context of their impact adding to the wider visually incoherent and cluttered seascape described above. We concluded that the key test issue is the acceptability of further harm to the seascape setting of the SCHAONB, and	Seascape and Landscape Visual Impact Assessment	Noted.	N

special character of the SHC, and adverse consequences this has for the already compromised statutory purpose of the designation.		

Table 3: A comparison of the projects judgement and Natural Englated is projected by Comparison of the projects of the project	Table 3. A comparison of the projects judgment and shanar licipal and projects of charge Semicirity of receptor Magnitude of charge Magnitude of ch	Table 2 A companion of the project 3 judgment regarding the significance of anciscope and visual effects. Feature Sensitivity of receptive Magnitude of change Subdiagnost Magnitude of change Applicant's Magnitude of change Applic	Table 3: A	dix 1										Seascape and	Noted.	N
Secretary Secr	Secretary Secretary Segurithment of Heapton Segurithment of Heapton Segurithment of Heapton Segurithment Segurit	Pasture Seminitivity of recognized Supplicant's National Constitution Supplicant Constitution Supplicant's National Constitution Supplicant Constituti		A compani	urison of the	project's judg	gement and N	latural England's jud	igement regarding	g the significance of la	ndscape and v	isual effects.		Landscape		
Augenement Judgmennent J	Landscape Costal High Agree Moderal Relation Disagree - Moderal Relation Disagree	Landscape Coastal High Agree Medium within Disagree Agree Medium within Disagree Agree Medium within Disagree Moderate Adverse major Adverse Medium within Moderate Adverse major Adverse Medium within Moderate Adverse major Adverse Medium within Medium within Moderate Adverse major Adverse Medium within Moderate Adverse major Adverse Medium within Medium within Moderate Adverse major Adverse major Adverse Medium within Moderate Adverse Moderate Moderate Moderate Adverse Moderate Mod	Feature			Sensitivity of	freceptor	Magnitude of chan	ge	Significance of effect	I alia	Total cumula	ative impact	Visual Impact		
Clastical Character Figure Coastal Pub High Agree Medium with Disagree	Coastal Pulp Coas	Coastal Pulp Coas				Judgement	Judgement	Judgement		Judgement	Judgement	Judgement	Judgement			
Significance Sign	Substant High Agree Medium within Som of proposals Som of	Submitted Subm	Landscap Characte	pe Coar ar duny		High	Agree		Disagree – 30km threshold	Moderate Adverse	Disagree - major	Moderate	Disagree -	Assessment		
Saltmarsh and inter- total flats National Designation National Designation Sufficial Coastal Plath Sufficial Coastal Plath Coastal Plath	Sulfrain Medium within Medium within Sulfrain Medium within Medium within Sulfrain Medium within Mediu	Sulfrain Medium within Summark Mayer Medium within Summark Mayer Moderate Adverse Moderate Mod		shing	ingle iges				of significance							
Salthramph High and intertuital fields Table National Suffer (Salthramph High and intertuital fields Table National Suffer (Salthramph High and intertuital fields Table National Suffer (Salthramph High ADMB) National Sufficial National Sufficial National Designation Designation Healths ADMB National Sufficial High Agree Medium for areas with Salthramph Nation of the major adverse. Offshore Above-see Offshor	Salhmanh High Agree 30km of proposals 30km of pr	Salhmanh High Agree 30km of proposals 30km of pr		Coan	veis	High	Agree		30km threshold of significance	Moderate Adverse	major	Moderate Adverse	major			
National Landscape Coast and Coast and High Agree Medium, for areas within More of the Offshore Abuse and average predicted on certain perception qualities, which is appricant in the ADNB. Suffolk Coastal Path Colons The Coastal Path Coastal Path Colons The Coastal Path Coastal Path Colons The Coastal Path Coasta	National Landscape Coast and Path London Coast Path Coastal Path Coast	National Landscape Coast and Path London Coast Path Coastal Path Coast		and	nd inter-	High	Agree		Disagree – 30km threshold	Moderate Adverse	major		major			
Coast and Path High Disagree Coastal Path High High High Located Path Loc	Coast and Designation Desi	Coast and Designation Desi	National	0.771		High	Acree	Medium, for areas	not explained	'Moderate adverse		Moderate				
Surfoik Surfoik Medium Disagree - Significant for when plants 15 km - 10 largee - when plants 4, 5 g, 10 and 17 and 17 brace for the continuous stretch of AUNBs of services when the continuous stretch of AUNBs of services when the continuous stretch of AUNBs of AU	Suffolk Suffolk Medium Disagree - Significant for verapoints 4, 5, 9, significant for the continuous stands of the AONB and within 35km." Disagree - Widers are stands and server, which is synfacted to the continuous stands of the Continuous stands of the AonB and which is synfacted to the Suffolk Costal Path Adverse	Suffolk Suffolk Medium Disagree - Significant for verapoints 4, 5, 9, significant for the continuous stands of the AONB and within 35km." Disagree - Widers are stands and server, which is synfacted to the continuous stands of the Continuous stands of the AonB and which is synfacted to the Suffolk Costal Path Adverse	Landscap Designation	ipe Coar	loast and leaths		•	within 30km of the Offshore Above- sea Development and along the coastal edges of	major adverse. 30km threshold of significance not explained, special qualities	which is significant in EIA terms, effects are predicted on certain perceptual qualities, where the relationship with the sea is a stronger influence,	Major		major			
Coastal Path Coastal Path High Versports 4, 5, 9, 9, 10 and 17 for confirmous stretch of ADNB of Coastal Path High Versports 4 for confirmous stretch of ADNB of Coastal Path Path (Ref. of Coastal Path ADNB of Coastal Path ADNB of Coastal Path ADNB of Coastal Path Include the Coastal Path Include	Coastal Plath Coastal Plath High High Velopoints 4, 5, 9, 10 and 17 Septiment for the continuous stretch of ACMB predicted where the coastine between velopoints 1 to 10 and 17. Septiment for the continuous stretch of ACMB predicted where the Suffix Coastal Plath Stollows the coastal velopoints 1 to 10 and 17. Septiment for the Coastal velopoints 1 to 10 and 17. Septiment for th	Coastal Plath Coastal Plath High High Velopoints 4, 5, 9, 10 and 17 Septiment for the continuous stretch of ACMB predicted where the coastine between velopoints 1 to 10 and 17. Septiment for the continuous stretch of ACMB predicted where the Suffix Coastal Plath Stollows the coastal velopoints 1 to 10 and 17. Septiment for the Coastal velopoints 1 to 10 and 17. Septiment for th	Suffolk	Suff	uffolk	Medium-	Disagree -	Significant for	Disagree -	of the AONB and within 30km."	Disagree -	Moderate	Disagree -			
10 and 17. Suzewell Spech and Egadely March.					astal Path	High	High	viewpoints 4, 5, 9,	significant for the continuous stretch of AONB coastline between viewpoints 1 to	which is significant in EIA terms, effects are predicted where the Suffolk Coastal Path follows the coastal edge, between Sizewell Beach and	Major	Adverse	major			

FOWFS3_049_153_040723	SLVIA Co Viewpoints	ovehithe	Medium- High	Disagree – High	Low	Disagree – Medium-High	Minor Adverse	Disagree – Moderate – Major Adverse	Moderate Adverse	Disagree – Major adverse	Seascape and Landscape	Noted.	N
	Pie		Medium- High	Disagree - High	Low	Disagree – Medium-High	Minor Adverse	Disagree – Moderate – Major Adverse	Moderate Adverse	Disagree - Major adverse	Visual Impact Assessment		
	Du Co	unwich	Medium- High	Disagree – High	Low	Disagree – Medium - High	Minor Adverse	Disagree – Major Adverse	Moderate Adverse	Disagree = Major adverse			
	Siz	lewes	Medium- High	Disagree – High	Medium	Disagree - High	Moderate Adverse	Disagree – Major Adverse	Moderate Adverse	Disagree – Major adverse			
	Cir	iffs above torpeness	Medium- High	Disagree – High	Medium	Disagree – High	Moderate Adverse	Disagree – Major Adverse	Moderate Adverse	Disagree – Major adverse			
	Ald		Medium- High	Disagree – High	Medium	Disagree – High	Moderate Adverse	Disagree – Major Adverse	Moderate Adverse	Disagree = Major adverse			
	Ori Ca	ford astle	Medium- High	Disagree - High	Medium-Low	Disagree - High	Minor Adverse	Disagree – Major Adverse	Minor Adverse	Disagree - Major adverse			
			Medium- High	Disagree – High			Moderate Adverse	Disagree – Major Adverse	Moderate Adverse	Disagree - Major adverse			
		reet	Medium- High	Disagree - High			Moderate Adverse	Disagree – Major Adverse	Moderate Adverse	Disagree - Major adverse			
	Pu Cir (Bi	ulhamite iffs awdsey anor)	Medium- High	Disagree - High	Medium	Disagree - High	Moderate Adverse	Disagree – Major Adverse	Moderate Adverse	Disagree – Major adverse			

Project Description	Seascape and Landscape Visual Impact Assessment	Noted.	N

	value set at 0.075.			

NFOWFS3_049_155_040723	Disserver a d Apparent Honzen D Observer's bright above sea level = 1 Turbus blads to besterver's apparent honzen d Distance to observer's apparent honzen d Di	Project Description	Seascape and Landscape Visual Impact Assessment	Noted.	N
NFOWFS3_049_156_040723	The NE method provides a result in the apparent, or angular (a), height of a turbine as seen by an observer expressed as degrees. Therefore, it is possible to compare the apparent height of a 99m turbine located at 15km away to that of a 190m turbine located at 26km. In this instance (when view from a height of 5m AOD) the values are 0.368 and 0.375, respectively. The 2020 BEIS 'Review and update of Seascape and visual Buffer study for Offshore Wind Farms' does essentially the same thing, as can been seen from the diagrams located within this report (p. 140 to 141). The calculation can also be used to predict the apparent height of (the not yet built) 397m turbines and 310m turbines as used in the North Falls worst case scenarios 1 and 2. These values can then be compared to the apparent heights of the Galloper OWF and Greater Gabbard OWF arrays. As the visual effects of the latter are known and can be readily experienced, their visual influence can be used to judge the likely effect of the proposed North Falls array when viewed from the same location. This information can also be used to inform the scale of effect judgement and hence the magnitude of change judgement. This is the approach NE has taken done, and Table 4 contains our evidence. NOTE: The maximum apparent height for the Galloper	Project Description	Seascape and Landscape Visual Impact Assessment	Noted.	N

OWF and Greater Gabbard OWF arrays when view from the closest point of the SCHAONB (at Orford Ness) is 0.3 and 0.268, respectively.		

IFOWFS3_049_157_040723	Appendix Table 4: As	care theights in degrees for Viewpoints	1 to 10 given tur	bine heights of 397m ar	nd 310m. Natural England	f has highlighted any	figures above 0.4	Project	Seascape	Noted.	N
	degrees in	bold within the table, as we consider appl	erent heights of a	above 0.4 degrees to be	e potentially significant.			Description	and		
			height above sea level in	Distance between viewpoint and North Falls OWF north array in meters	NE estimated distance between viewpoint and North Falls OWF south array in meters	in degrees (northern array	degrees (southern array area)		Landscape		
	Proposed turb	oine height to blade tip in meters - 397m	meters	array in meters					Visual		
	2	Covehithe Southwold Pier	0	42320 38000	67000 63000		0.140		Impact		
	3	Dunwich Coastguard Cottages	14	32610	56000	0.659	0.289		Assessment		
	4	Sizewell Beach Cliffs above Thorpeness	4	29000 27190	52000 47000		0.294		Assessment		
	6	Aideburgh	5	25500	45000		0.364				
	7	Orford Castle Orford Ness	9	26720 22960	43000		0.442				
	9	Shingle Street	4	28360	39000		0.488				
	10	Pulhamite Cliffs (Bawdsey Manor)	4	31070	39000	0.665	0.488				
	Proposed turb	bine height to blade tip in meters 310m Coverhithe	4	42320	67000	0.312	0.065				
	2	Southwold Pier	0	38000	63000	0.322	0.042				
	3	Dunwich Coastguard Cottages Sizewell Beach	14	32610 29000	58000 52000		0.200				
	5	Cliffs above Thorpeness	10	27190	47000	0.622	0.280				
	6	Aldeburgh Orford Castle	5	25500 25720	45000 43000		0.283				
	å	Orford Ness	4	22960	39000		0.360				
	9	Shingle Street	4	28350	39000		0.360				
	10	Pulhamite Cliffs (Bawdsey Manor)	4	31070	39000	0.505	0.360				
OWFS3 049 158 040723	Anne	x 8. Landscape	and \	/isual Im	npact Ass	essmer	nt	Landscape	Site	The cumulative assessment	N
OWFS3_049_158_040723		x 8. Landscape									N
OWFS3_049_158_040723	The a	dvice containe	d withi	in this re	sponse is	s focuse	ed solely	and Visual	Selection	(refer to Section 30.8 of Chapter	N
OWFS3_049_158_040723	The a		d withi	in this re	sponse is	s focuse	ed solely				N
OWFS3_049_158_040723	The a	dvice containe Landscape ar	d withind Vis	in this re ual Impa	sponse is octs of the	focuse North I	ed solely	and Visual Impact	Selection and	(refer to Section 30.8 of Chapter 30, Landscpae and Visual	N
OWFS3_049_158_040723	The a on the Offsh	dvice containe Landscape ar ore Wind Farm	d withind Visi (OWF	in this re ual Impa -) Nation	sponse is acts of the ally Signi	s focuse North I ificant	ed solely Falls	and Visual	Selection and Assessment	(refer to Section 30.8 of Chapter 30, Landscpae and Visual Impact Assessment) considers	N
OWFS3_049_158_040723	The a on the Offsho Infras	dvice containe e Landscape ar ore Wind Farm tructure Projec	d withind Visa (OWF t (NSI	in this re ual Impa ⁻) Nation P), and s	sponse is acts of the ally Signi specificall	focuse North I ificant by the su	ed solely Falls ubstation	and Visual Impact	Selection and Assessment of	(refer to Section 30.8 of Chapter 30, Landscpae and Visual Impact Assessment) considers the above ground (operational	N
OWFS3_049_158_040723	The a on the Offsho Infras	dvice containe e Landscape ar ore Wind Farm tructure Projec	d withind Visa (OWF t (NSI	in this re ual Impa ⁻) Nation P), and s	sponse is acts of the ally Signi specificall	focuse North I ificant by the su	ed solely Falls ubstation	and Visual Impact	Selection and Assessment	(refer to Section 30.8 of Chapter 30, Landscpae and Visual Impact Assessment) considers the above ground (operational	N
OWFS3_049_158_040723	The a on the Offshi Infras site. (dvice containe e Landscape ar ore Wind Farm tructure Projec Dur advice is fo	d withind Visit (OWF (NSI) cused	in this re ual Impa F) Nation P), and s on the p	sponse is acts of the ally Signi specificall potential f	s focuse North I ificant by the su for the p	ed solely Falls ubstation project,	and Visual Impact	Selection and Assessment of	(refer to Section 30.8 of Chapter 30, Landscpae and Visual Impact Assessment) considers the above ground (operational stage) features	N
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	With regard to the North Falls substation as a standalone	is presented in Section 30.8 of	
	project, Natural England have taken a risk-based approach	Chapter 30.	
	to assessing the landscape and visual impacts presented		
,	within the North Falls PEIR document. At this stage, we		
	have concluded that the risk of significant adverse		
	landscape and visual impacts occurring within both the		
	Dedham Vale AONB and Suffolk Coast and Heaths AONB		
	from the North Falls substation being delivered in isolation		
	is low.		
	We appreciate that there may be a lack of information to		
	enable a fully informed assessment of potential cumulative		
	landscape and visual impacts of the project in combination		
	with other projects, such as Five Estuaries OWF and		
	National Grid's East Anglia Green project. We note that		
	these projects are also proposing substations within 2km of		
	the North Falls study area on the Tendring Peninsula, with		
	the Five Estuaries substation likely to be in the same		
	general area as the North Falls substation. While we		
	understand there may be limitations in the exact details of		
	other projects at this stage, particularly in terms of exact		
	location and design specifications; we advise that as		
	information becomes available (such as the recent Five		
	Estuaries PEIR), the North Falls LVIA is updated		
	accordingly to ensure that the assessment presented in the		
	Application Environmental Statement (ES) considers all		
	relevant information.		
	We advise that the Project makes all efforts to seek to		
	share, and gain information from the other project teams for		
	the Examining Authorities to thoroughly test conclusions		
	drawn. We note that given these projects are in the pre-		
	application phase, there is currently no certainty that they		
	will all gain approval, but this may change between now		
	and the end of Examination. Whilst we have highlighted the		
	consideration of potential cumulative impacts as a concern,		
	we understand that currently the possible cumulative effects		
	may have only limited or no bearing on the formal decision		
	,		
	regarding the North Falls substation, but recommend they		
	are considered in order to future proof the project.		
	In summary, as the ES is developed, we advise that:		
	• The potential cumulative impacts of all three projects on		
	the Suffolk Coasts and Heaths and Dedham Vale AONBs		
	are given further consideration and kept under review in		
	anticipation of what could be a changed landscape and		
	visual baseline by the time North Falls is examined.		
	As details of one or both of the other schemes emerge in		
	time, the Project seeks an appropriate joined-up and		
	strategic approach with those developers to mitigating any		
	cumulative effects on the AONB.		

Consultee reference	Summary of comments	Theme/ code	Theme/ code	Applicant's response	Project change (Y / N)
NFOWFS3_050_001_060723	AONB Office Saxon House Whittle Road Hadleigh Road Industrial Estate Ipswich IP2 0UH 6 July 2023 By email only: contact@northfallsoffshore.com Suffolk Coast & Heaths AONB Partnership response to: North Falls Offshore Wind Farm Statutory Consultation May to July 2023 The Suffolk Coast & Heaths Area of Outstanding Natural Beauty (AONB) Partnership thank the proposers of North Falls Offshore Wind Farm for the opportunity to comment on their proposals as described in the Statutory Consultation 16 May 2023 to 14 July 2023. The AONB partnership understands the proposals are for: • An Offshore Wind Farm, with up to 72 turbines and • Up to 2 offshore substation platforms • Inter array cables • Three options for transmission infrastructure: o Option 1: Onshore electrical connection at a National Grid connection point within Tendring, Essex, with a project alone onshore cable route and onshore substation infrastructure. o Option 2: Onshore electrical connection at a National Grid connection point within Tendring, Essex, sharing all or part of an onshore cable route with separate onshore export cables with another project (such as Five Estuaries) where practicable. o Option 3: Offshore electrical connection supplied by a third-party electricity network provider. Such a connection will potentially be identified through the Offshore Transmission Network Review process. The AONB Partnership acknowledges the important part that renewable energy can provide in the nation's energy mix and the aspiration to move to net zero.	Introduction		Noted.	N N

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The AONB Partnership		
The Partnership was formed in 1993, it		
comprises public, private and voluntary		
organisations who are committed to conserving		
and enhancing the Natural Beauty of the AONB.		
The Partnership's role is to act as an advocate		
for the AONB and oversee the delivery of the		
AONB Management Plan.		
Suffolk Coast & Heaths AONB Partnership		
response to:		
North Falls Offshore Wind Farm Statutory		
Consultation May to July 2023		
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The AONB Partnership consists of:		
Babergh District Council, East Suffolk Council,		
Essex County Council, Ipswich Borough		
Council, Suffolk County Council, Tendring		
District Council, Community Action Suffolk,		
Country Land and Business Association, The		
Crown Estate, Defra, Environment Agency,		
Forest England, Historic England, National		
Farmers' Union, Natural England, National		
Trust, Royal Society for the Protection of Birds,		
Suffolk Association of Local Councils, Suffolk		
Coast Acting for Resilience, Suffolk Coast Ltd,		
Suffolk Farming & Wildlife Advisory Group,		
Suffolk Preservation Society, Suffolk Wildlife		
Trust.		
It should be noted that:		
Many of these partners are public bodies or		
statutory undertakers which have the duties to		
conserve and enhance the Natural Beauty of		
the AONB as set out in section 85 of the		
Countryside and Rights of Way Act (2000). It is		
anticipated that these partners, and other		
members of the Partnership, will provide		
separate consultation responses that reflect		
these and other interests and responsibilities.		
The AONB Partnership response will		
predominately confine itself to matters that have		
a direct impact on the nationally designated		
landscape, in line with its remit.		
Suffolk Coast & Heaths AONB Partnership		
response to:		
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Suffolk Coast & Heaths AONB Partnership		
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• The proposers of the scheme should listen			
The proposed of the contents chedia motors,	The proposers of the scheme should listen,		

understand and act upon legitimate concerns of	
residents, interest groups and businesses	
outside the AONB, which this response does	
not cover.	
The AONB Partnership acknowledge the	
benefit that offshore wind generated electricity	
can bring to meeting the aspiration for net zero.	
Suffolk Coast & Heaths AONB Partnership	
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The Suffolk Coast & Heaths AONB Partnership	
considers that the proposals need to be	
determined against the relevant National Policy	
Statements, Legislation and other relevant	
policy, plans and guidelines. The AONB	
Partnership notes that:	
A) The Overarching National Policy Statement	
for Energy (EN1), paragraph 5.9.9, states:	
Development proposed within nationally	
designated landscapes	
National Parks, the Broads and AONBs have	
been confirmed by the Government as having	
the highest status of protection in relation to	
landscape and scenic beauty. Each of these	
designated areas has specific statutory	
purposes which help ensure their continued	
protection and which the IPC [Now Planning	
Inspectorate] should have regard to in its	
decisions. The conservation of the natural	
beauty of the landscape and countryside should	
be given substantial weight by the IPC [Now	
Planning Inspectorate] in deciding on	
applications for development consent in these	
areas.	
B) The National Policy Statement for	
Renewable Energy Infrastructure (EN-3),	
paragraph 2.5.33 states:	
In sites with nationally recognised designations	
(Sites of Special Scientific	
Interest, National Nature Reserves, National	
Parks, the Broads, Areas of	
Outstanding Natural Beauty and Registered	
Parks and Gardens), consent	
for renewable energy projects should only be	
granted where it can be	
demonstrated that the objectives of designation	
of the area will not be	
compromised by the development, and any	
Compromised by the development, and any	

significant adverse effects on the		
qualities for which the area has been		
designated are clearly outweighed by		
the environmental, social and economic		
benefits.		
C) The draft National Policy Statement EN-5 on		
Electricity Networks Infrastructure		
States in para 2.11.11:		
The Horlock Rules – guidelines for the design		
and siting of substations were established by		
National Grid in 2009 in pursuance of its duties		
under Schedule 9 of the Electricity Act 1989.		
These principles should be embodied in		
Applicants' proposals for the infrastructure		
associated with new overhead lines.		
The AONB Partnership considers that to		
conform to EN1 that the proposed		
developments should not significantly negatively		
impact nationally designated landscape.		
The AONB Partnership considers that to		
conform to EN3 that the proposed		
developments should not have significantly		
negatively impact nationally designated		
landscape.		
Suffolk Coast & Heaths AONB Partnership		
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It then briefly references the Horlock rules		
including:		
seek to avoid altogether internationally and		
nationally designated areas of the		
highest amenity, cultural or scientific value by		
the overall planning of the system connections		
D) Section 85 of the Countryside and Rights of		
Way Act (2000) that states:		
General duty of public bodies etc		
(1) In exercising or performing any functions in		
relation to, or so as to affect, land in an area of		
outstanding natural beauty, a relevant authority		
shall have regard to the purpose of conserving		
and enhancing the natural beauty of the area of		
outstanding natural beauty.		
(2) The following are relevant authorities for the		
purposes of this section—		
(a) any Minister of the Crown,		
(b) any public body,		
(c) any statutory undertaker [our emphasis]		
(d) any person holding public office.		
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E) The 141 Le 0 (6 H 0 - 4 0 H) (1 A 0 H)		
E) The statutory Suffolk Coast & Heaths AONB Management Plan 2018-23		
outlines within its 25 year vision for the area		
that:		
Nationally Significant Infrastructure Projects		
such as energy production and its associated		
infrastructure should seek to avoid damage to		
the natural beauty of the AONB and where this		
cannot be achieved it should seek to minimise,		
mitigate and compensate for any residual		
damage.		
The AONB Partnership recognise three		
elements of the proposal from the consultation:		
The AONB Partnership considers that to		
conform to the draft EN5 that the proposed		
development should pay regard to AONB		
purpose.		
The AONB Partnership considers that North		
Falls Offshore Wind Farm Ltd is a statutory		
undertaker and as such is required to pay due		
regard to the purpose of the AONB when undertaking its operations and decision making.		
The AONB Partnership considers that the North		
Falls Offshore Wind Farm Ltd proposals for		
development require the proposals to meet the		
aims of the statutory AONB Management Plan.		
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NFOWFS3_050_002_060723	The three elements of the proposals of interest to the AONB Partnership are: i) Offshore Proposals ii) Onshore Proposals (Landfall and cable routes) iii) Socio-economic impacts Each of the above is considered below: i) Offshore Proposals The AONB Partnership recognises that the offshore element is at least 22.5km from the nationally designated landscape across uninterrupted views. The proposed array, 40 turbines of 397m to tip (worst case for SLVIA), or 72 turbines at 310m to tip are proposed to be in front of the smaller turbines of the Greater Gabbard and Galloper arrays (when viewed from the AONB). Although the preliminary environmental information report indicates the impacts on the AONB are assessed as moderate (also significant in Environmental Impact Assessment terms) the Partnership considers that these impacts may be underrepresented and consider that the proposer of the scheme consider the findings of the Update Addendum of the seascape sensitivity to offshore wind farms commissioned by Suffolk County Council, east Suffolk Council and the AONB Partnership. 1 As the proposed turbines will be larger and in front of (when viewed from the AONB) arrays, the negative impact of industrial infrastructure on the nationally designated landscape will be increased. It considers the northern array, despite being smaller in area and closer to the AONB, will have a disproportionately large impact on the nationally designated landscape. The extent of the proposed array, in particular the north-south extent, will increase the curtain effect of turbines across the views to the east from the AONB. This is a negative impact on the nationally designated landscape due to this expansion of the curtain effect. These impacts have been described as significant (major) in the preliminary environmental information	Seascape, Landscape and Visual Impact Assessment	A decision was made to remove the northern array from the Project and to refine the southern array (see Chapter 30 - Landscape and Visual Impact Assessment).	Y
	report.			
	Toport.			

	The AONB Partnership consider that the applicant's description of the implications of the Offshore Above-Sea Development for the Suffolk Coast & Heaths AONB (29.6.2.2.2, Offshore Seascape, Landscape and Visual Impact Assessment) refers to the baseline description in the 2013-2018 Suffolk Coast & Heaths AONB Management Plan and not as stated the current 2018-2023 Suffolk Coast & Heaths AONB Management Plan. Suffolk Coast & Heaths AONB Partnership response to: North Falls Offshore Wind Farm Statutory Consultation May to July 2023 Page 7 of 9 It considers that this is not a sufficiently robust enough approach to assessing potential impacts on the AONB. It suggests that the assessment should be made against the more recent Suffolk Coast & Heaths Area of Outstanding Natural Beauty and Special Quality Indicators v1.8 November 2016. 2 If The AONB Partnership considers that the proposals will have a significant adverse impact on the AONB. The AONB Partnership has considers that:			
NFOWFS3_050_003_060723	An assessment of the offshore element of the proposals be undertaken against the defined natural beauty and special qualities of the Suffolk Coast & Heaths AONB and not the summary landscape character assessment as referenced in 29.6.2.2.2, Offshore Seascape, Landscape and Visual Impact Assessment.	Seascape, Landscape and Visual Impact Assessment	The assessment of effects on the Suffolk & Essex Coast & Heaths National Landscape (an AONB) has been updated, with consideration given to the 'special qualities' as listed in the Natural Beauty and Special Qualities Indicators document (November 2016). See Section 29.6.3.2.2 in	N

			Chapter 29 (Seascape, Landscape and Visual Impact Assessment).	
NFOWFS3_050_004_060723	The proposed turbines are proposed to be significantly larger (to tip) than the current turbines in this vicinity and closer to the AONB meaning that the impact of the industrialised development on the nationally designated landscape is greatly increased. The larger turbines at the front of the arrays will cause a disproportionate negative impact on the AONB and that the array should be redesigned to remove the situation where larger turbines are located closer to the AONB. There is particular concern relating to the northern array. The extension in the southern section of the proposals will greatly increase the curtain effect of development on those experiencing the AONB and the proposed England Coast Path and current Suffolk Coast Path. The two 'triangles' in the northern array of the proposals will have a disproportionate negative impact on the AONB compared with the benefits accrued from generating more sustainable electricity from this section of the proposed development and should not be included in current proposals. An assessment of impacts on the AONB should include assessments at different times of day, different times of the year and in different weather conditions. Night-time tranquillity will be negatively impacted by the introduction of navigation/safety lights in night-time skies. The introduction of two offshore substations will add to the industrialisation of the seascape when experienced from the AONB. The Partnership considers that proposals as presented will have significant negative impacts on the AONB during operation and may have such an impact on it that they may undermine the reasons for designation. As no mitigation is	Seascape, Landscape and Visual Impact Assessment	A decision was made to remove the northern array from the Project and to refine the southern array (see Chapter 30 - Landscape and Visual Impact Assessment).	Y

	available, compensation for residual impacts should be made. Suffolk Coast & Heaths AONB Partnership response to: North Falls Offshore Wind Farm Statutory Consultation May to July 2023 Page 8 of 9			
NFOWFS3_050_005_060723	ii) Onshore Proposals (including landfall and cable routes) The AONB Partnership recognises that the proposals for landfall of the undersea cables is not within the nationally designated landscapes but considers that North Falls Offshore Wind Farm Ltd should listen, understand and act upon concerns of those impacted. The AONB Partnership recognises that the proposals for underground cables linking landfall to the site of the proposed substation avoid the nationally designated landscapes but considers that North Falls Offshore Wind Farm Ltd should listen, understand and act upon concerns of those impacted. It notes that routes should be identified that do the minimum of damage to sites important for nature, including woodlands and hedgerows and known archaeological sites. Likewise, given the considerable impacts of undergrounding cables, routes should be chosen to minimise impacts on dwellings and the best quality agricultural land.	Landscape and Visual Impact Assessment	Noted.	N

	The AONB Partnership recognises that the			
	proposals for a substation are outside any nationally designated landscapes. It is proposed			
	for being within 1km from the Dedham Vale			
	AONB boundary and perhaps more than 3km			
	from the Suffolk Coast & Heaths AONB			
	boundary.			
	It recognises that the site selection principles include seeking to minimise significant impacts			
	on AONBs as well as other criteria including			
	residential areas, woodland and important			
	ecological and heritage designated areas.			
	The AONB Partnership welcomes the avoidance of the nationally designated AONBs			
	for its onshore proposals.			
	Suffolk Coast & Heaths AONB Partnership			
	response to:			
	North Falls Offshore Wind Farm Statutory Consultation May to July 2023			
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NFOWFS3_050_006_060723	iii) Socio-economic impacts	Tourism and	Noted. For more information, see	N
	The AONB Partnership request that the	Recreation	Chapter 32 (Tourism and Recreation).	
	proposer of the project considers the economic impacts of its project and on the			
	tourism industry and residents'			
	quality of life.			
	The AONB has an important role to play in the			
	tourism industry, that supports over 4,000 jobs and is worth over £250M pa.			
	The natural beauty and special			
	qualities of the AONB are a key driver for the			
	tourism industry, in particular the			
	relationship between seascape and setting of the AONB in horizon views from			
	within the designated landscape.			
	The AONB Partnership, Suffolk County Council			
	and East Suffolk Council			
	commissioned Update Addendum, Seascape			
	Sensitivity to Offshore Wind Farms3 notes an additional paragraph in EN-3			
	that includes:			
	seascape is an issue for consideration			
	especially where it provides the			
	setting for a nationally designated landscape and supports the delivery			
	of the designated area's statutory purpose [Para			
	of the designated area's statutory purpose [Para 3.8.221 EN-3]. The AONB's landscape quality, tranquillity and			

natural cultural heritage features are also drivers for the tourism	
industry.	
Furthermore, residents in the AONB enjoy	
benefits associated with AONB	
natural beauty and special quality indicators.	
Residents' quality of life is	
enhanced by the statutory purpose of the	
AONB.	
Yours sincerely,	
Simon Amstutz	
AONB Manager	
For and on behalf of the Suffolk Coast & Heaths	
07971 909 649	
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TI AONO DE CONTRACTOR DE C	
The AONB Partnership consider that the	
introduction of significant industrial	
development off the coast of the AONB will have an impact on the ability of the AONB	
to deliver statutory purpose. This impact will	
have a knock on effect on the viability of	
the tourism industry and residents' quality of life	
during operation and construction and	
should be avoided compensated for.	

Consultee reference	Summary of comments	Theme/ code	Applicant's response	Project change (Y / N)
NFOWFS3_051_001_140723	To: contact@northfallsoffshore.com Date: 14th July 2023 Ref: NFU/Response/North Falls Circulation: Contact: Alice Sharlot Tel: Fax: Email: National Farmers' Union Comments: North Falls Offshore Wind Farm Consultation – July 2023 The NFU represents 55,000 members across England and Wales. In addition, we have 20,000 NFU Countryside members with an interest in farming and rural life. The NFU would like to make the following points in regard to the North Falls Offshore Wind Farm on behalf of NFU members affected by the project.	Introduction	See responses below.	N
NFOWFS3_051_002_140723	The NFU understands that the proposal is for a maximum of four electrical circuits along an approximately 24km corridor.	Project Description	This was correct at the PEIR stage but the maximum number of electrical circuits has now been reduced to two. Further information can be found in Chapter 5 (Project Description).	Y

NFOWFS3_051_003_140723	1. Consultation with Landowners – The NFU strongly feels that RWE need to consult fully with landowners affected by any onshore apparatus and cable construction works. Section 22.6.1.1.3 within Chapter 22 of the PIER in relation to the temporary loss of agricultural land, states that the planning and timing of works will be discussed with landowners and private agreements are to be sought with the relevant landowners and occupiers. It is also stated that private agreements will help manage the short term loss (up to 2 years) of agricultural land and ensure full land recovery within 5 years post-construction. The NFU is pleased to see that the North Falls project intend to engage with landowners and occupiers to minimise the impact on their property and businesses. The NFU would like to see this begin in the early stages to understand the businesses that will be impacted and any mitigation measures or timings of the works being able to be incorporated into the scheme design and programme at the outset. The NFU would also like to see discussions regarding private agreements take place as early as possible to enable these discussions to progress ahead of the submission of the DCO.	Technical Consultation	The Applicant has undertaken negotiations with a group of land agents ("Land Agency Group") to agree a precedent set of Heads of Terms in respect of an Option Agreement. The Land Agency Group currently represents [68]% of Category 1 Owners or Reputed Owners with a further [6]% represented by other land agents outside of the group. A summary of those negotiations undertaken can be found in the Statement of Reasons (document reference 6.5) with status of negotiations with each relevant land interest set out within the Compulsory Acquisition Schedule (document reference 6.6). The statutory consultation process and evidence of the Project's consultation with stakeholders to date is captured in Chapter 7 Technical Consultation (Volume I). At PEIR, temporary loss of agricultural land was assessed as minor adverse, which is not significant in EIA terms. At ES, temporary loss of agricultural land is assessed as moderate adverse, which is significant in EIA terms. The change in likely significant effect is due to greater certainty regarding the location of the project infrastructure. At PEIR, uncertainty existed regarding the location of the onshore project area due to a wider project envelope being considered at the time. Now the location of the onshore cable route, TCCs, access points and onshore substation works area have been identified, greater certainty regarding the sensitivity of the receptor can be concluded. >20ha of the onshore project area is now confirmed as BMV, which is categorised as a receptor of 'high' sensitivity, which therefore results in an effect of moderate adverse significance. Full details of the updated assessment are provided in Section 22.6 of Chapter 22 Land Use and Agriculture.	N
NFOWFS3_051_004_140723	2. Substation Locations – It is noted in chapter 5, paragraph 56 of the PIER (Project Description) that the precise location of the onshore substation and grid connection is subject to ongoing consultation, however will be located within the onshore substation zone. The NFU would like to be kept informed in regard to the development of the substation.	Site Selection and Assessment of Alternatives	Chapter 4 Site Selection and Assessment of Alternatives (Volume I) set out the ongoing site selection process and consultation activities in relation to the identification of the onshore substation location.	N

NFOWFS3_051_005_140723	3. Cumulative Impact – Section 22.8.3 within Chapter 22 of the PIER, states that the Five Estuaries Wind Farm and that the Norwich to Tilbury project (formerly known as East Anglia GREEN) have potential direct cumulative impacts. It is stated that the applicant is in regular and ongoing dialogue with Five Estuaries Offshore Wind Farm Ltd. The NFU would like to see that the project is exploring options to work collaboratively with other infrastructure projects in the area, such as Five Estuaries and the Norwich to Tilbury project which will reduce the overall cumulative impact. The NFU would like to understand further how the projects are working together to reduce the overall impact of the projects in the area. Specifically, the NFU would like to understand how the Five Estuaries Wind Farm and the North Falls Wind Farm projects NFU Consultation Response are working collaboratively to reduce the cumulative impact of the construction of the projects in one area in terms of land requirements and construction timings. Page 2 Although every effort has been made to ensure accuracy, neither the NFU nor the author can accept liability for errors and or omissions. © NFU Department Name/NFU Consultation Response/April '19/draft The voice of British farming	Site Selection and Assessment of Alternatives	Although subject to separate DCOs, North Falls and Five Estuaries have undertaken activities to work collaboratively as far as possible. This has included co-design of the projects' onshore cable route and the co-location of both projects' onshore substation infrastructure, and including options in both projects' DCOs for a joint build-out of the two projects' cable ducting to minimise certain environmental effects, including a reduction in the working footprint required therefore reducing effects on land and agriculture. Co-ordination on assessment has also taken place to ensure alignment on mitigation can be delivered where practicable. Furthermore, North Falls, Five Estuaries and National Grid have also co-ordinated in sharing data and seeking to work together on a number of aspects of the projects' environmental assessment. Full details on co-ordination and collaboration can be found in the Co-ordination Report (document reference 2.5), submitted with the DCO application. As a result of ongoing collaboration, a detailed CEA for effects arising from the development of both North Falls and Five Estuaries has been undertaken for land use and agriculture in Section 22.8.3.1 of Chapter 22 Land Use and Agriculture.	N
NFOWFS3_051_006_140723	4. Easement – The PIER (Chapter 5, Project Description) outlines that the North Falls Offshore Wind Farm Project has an indicative operational life of 30 years. The NFU would therefore like confirmation of the length of easement being sought from landowners through voluntary agreements. The NFU strongly feels that the easement term should not exceed the operational lifetime of the scheme.	Project Description	Noted.	N

NFOWFS3_051_007_140723	5. Cable Depth – The NFU understands from the PIER (Chapter 5: Project Description – Table 5.21 Onshore export cables characteristics) that the minimum depth of burial for the cables will be 0.90m and the approximate depth of trench to the top of the protection tile is 0.85m-1.2m. The NFU would like clarity on the depth the cables will be laid through agricultural land. It is imperative that the cables are laid at a minimum depth of 1.2m to the top of the tile to ensure there is sufficient distance between the cables and farming operations i.e. field drainage is generally laid at 0.9m and mole drainage at 0.65m.	Onshore Archaeology and Cultural Heritage	The cables will generally be buried at a depth not shallower than 1.2 metres (m) below ground level depending on ground conditions. This is designed to take into consideration the requirements for drainage and deep ploughing. Where necessary, for example if there is rock, concrete or another obstacle close to the surface (such as existing services), the cables may need to be laid at a shallower depth. The Compensation Code exists to protect land interests who may incur a loss as a result of a shallower depth of the cables. Where there are issues with the ground conditions, the Applicant will still aim to bury the cable as deep as is reasonably practicable and ensure that no infrastructure is shallower than 0.9m, including marker tape.'	Y
NFOWFS3_051_008_140723	6. Surface Apparatus – It is noted in the PIER (Chapter 5: Project Description – Table 5.21 Onshore export cables characteristics) that joint bays will be located approximately every 500m with dimensions being 13mx5m. There will also be up to 196 link boxes. It is noted that where possible, the link boxes will be located adjacent to field boundaries. Section 22.6.3.2 states that the final design of the link boxes is yet to be completed, however they could be above ground structures up to 1.5m tall, 0.6m deep and 1m wide or they could be below ground and accessed via manhole covers at ground level. The NFU would like to see that landowners are consulted on the location of any surface apparatus to minimise the impact on agricultural operations. It is essential that any link boxes located within agricultural fields are at ground level and marked appropriately in consultation with the landowner/occupier to avoid further disruption to agricultural operations.	Project Description	The location of link boxes and associated joint bays is dictated by detailed design, which will seek to locate these as close to field boundaries and in accessible locations where possible. However, it may not be practicable to locate them in a location that is preferred by a landowner or occupier. The requirement for joint bays and associated link boxes is covered in sections 5.7.3.3.2-5.7.3.3.3 of Chapter 5 Project Description of the ES (document reference 3.1.7). Any proven losses arising out of the location of above ground apparatus can be claimed by a land interest under the Compensation Code. '	N

NFOWFS3_051_009_140723	7. Cable Corridor – The NFU understands from the PIER that the working corridor is to be 60m wide and may be where trenchless techniques are used up to 122m wide. The NFU would like to understand further how construction for this will take place if there is co-ordination between the construction of the Five Estuaries project and the North Falls project including whether the circuits will be laid sequentially or in parallel to understand the impact on farming businesses.	Site Selection and Assessment of Alternatives	NFOW has worked with VE OWFL throughout the pre-application stage to develop co-ordinated proposals as discussed in Section 5.3.1 and Section 5.7 of Chapter 5 Project Description.	Y
NFOWFS3_051_010_140723	8. Heat Dissipation – Heat dissipation is a concern amongst farmers affected by the scheme, which can impact the land for the lifetime of the project. Heat dissipation has been seen on previous underground cable schemes and can have a significant impact on the crops growing in fields affected, causing crops to grow at different rates which leads to issues in carrying out agricultural operations at the best time to care for such crop effectively.	Land Use and Agriculture	Any effect on soil heating would be highly localised to the area immediately surrounding the cable system. Where laid in trenches, cables would be buried at a depth no shallower than 1.2m below ground level depending on ground conditions. Where necessary, for example if there is rock, concrete or another obstacle close to the surface, the cables may need to be laid at a shallower depth, with warning tape or tiles placed no less than 0.9m below the surface. In addition, the use of Cement Bound Sand (CBS) will remove any material heat transfer from the cables to the surrounding environment.	N
NFOWFS3_051_011_140723	Section 22.6.3.3 of the PIER (Land Use and Agriculture) states that the design of the onshore cable system would seek to minimise any energy losses. The NFU would like to further understand the measures taken to reduce the impact of heat dissipation on the scheme.	Onshore Archaeology and Cultural Heritage	See above.	N
NFOWFS3_051_012_140723	9. Biodiversity Net Gain – The NFU would like to understand further how RWE are intending to deliver Biodiversity Net Gain on the project. Chapter 5 of the PIER (Project Description), section 5.8.4.6 states that the project is exploring opportunities to deliver a minimum of 10% biodiversity net gain for the onshore elements of the project. The NFU does not support any agricultural land being acquired compulsorily for the purposes of delivering biodiversity net gain. If the project needs to acquire additional land to deliver such gain then this should be acquired through negotiation only.	Onshore Ecology	NFOW has provided an Initial Biodiversity Net Gain Assessment which describes potential opportunities for enhancement of terrestrial habitats. Areas identified as suitable for enhancement will be focused within the Project's onshore area boundary (on-site) in the first instance (Document Reference 7.22). Off-site (areas outside of the onshore Project area) habitat creation / enhancement as compensation will only be used if there is no suitable alternative on-site, in order to adhere to the mitigation hierarchy.	N

NFOWFS3_051_013_140723	10. Impact on Agricultural Businesses – Section 22.5.2.2 of the PIER (Land Use and Agriculture) states that 9.84% of the onshore project area is Grade 1 agricultural land, whilst 20.21% is grade 2 and 54.80% is grade 3 (Table 22.13). Paragraph 76 also highlights that the offshore substation zone is located within Grade 1 agricultural land and therefore this area of land will be acquired permanently and removed from agricultural production. The NFU strongly feels that that the project should avoid best and most versatile land wherever possible, in particular where permanent acquisition is required.	Land Use and Agriculture	Where works are to take place within BMV / BMV is to be lost as part of the Project, this is only considered in situations where no reasonable alternative could be identified when balancing other project engineering and design feasibility, planning and environmental constraints. Description of the Project's site selection process is presented in Chapter 4 Site Selection and Assessment of Alternatives (Volume I), and assessment of the effects upon BMV is set out in Section 22.6 of Chapter 22 Land Use and Agriculture. Following a joint engineering exercise between North Falls and Five Estuaries, refinement of the 204m-wide onshore cable corridor(s), identified at PEIR, down to a single 90m-wide onshore cable route connection the North Falls and Five Estuaries' landfall and onshore substation. The refined onshore cable route has been designed to ensure capacity for the installation of up to four electrical circuits, to per project, installed in cable ducts, from landfall to the onshore substations. This approach has been undertaken to ensure that should commercial and regulatory constraints allow, the projects will have the option to undertake a single joint cable installation activity for the cable ducts for both projects, therefore realising efficiencies and minimise effects associated with two independent construction activities. Embedded mitigation for the permanent loss of agricultural land is discussed Section 22.3.3 of Chapter 22 Land Use and Agriculture.	N

NFOWFS3_051_014_140723	NFU Consultation Response Page 3 Although every effort has been made to ensure accuracy, neither the NFU nor the author can accept liability for errors and or omissions. © NFU Department Name/NFU Consultation Response/April '19/draft The voice of British farming The NFU also feels strongly that the impact the project will have on agricultural businesses needs to be considered in the development of the project. Section 22.6.1.1.3 within chapter 5 of the PIER stated that the land temporarily taken out of production for the cable route, could be done so for a period of 18 months, which could be two growing seasons. The NFU is pleased to see that consideration has been given to the impact of the scheme on agricultural land and businesses, including access to severed land, discussing the timings of construction works with farmers to reduce the impact on agricultural productivity and avoiding land within environmental schemes wherever possible (Chapter 22 of the PIER, Land Use and Agriculture - Table 22.3). Although it is noted that the onshore substation zone and the some of the onshore cable route is proposed on land within environmental schemes. The construction and surface apparatus may cause significant disruption to agricultural land and businesses. The NFU would expect there to be consultation with farmers over practical matters including	Socio- economics	See above.	N
	agricultural land and businesses. The NFU would expect there to be consultation with			

NFOWFS3_051_015_140723	11. Outline Code of Construction – The NFU notes and is pleased to see that a draft Code of Construction Practice will be submitted with the DCO application (Chapter 22 of the PIER, Land Use and Agriculture - Table 22.3). The NFU is also pleased to see that RWE will appoint a local specialised land drainage consultant to develop both pre and post-construction drainage plans, as stated within section 22.6.1.1, Chapter 22 of the PIER. It is also noted that the outline Code of Construction Practice (CoCP) will include soil management measures. The NFU has specific wording that it would like to see included in an Outline Code of Construction Practice to cover how practical aspects of the construction should be dealt with in relation to agricultural land and would welcome the opportunity to engage with RWE on this. The NFU wording covers the following: a) Role of an Agricultural Liaison Officer b) Records of Condition c) Biosecurity d) Irrigation e) Agricultural Land Drainage f) Treatment of Soils g) Agricultural Water Supplies	Project Description	This has been noted by the Applicant. The Applicant will consider the NFUs comments and proposed wording for inclusion and would be happy to discuss this with NFU following DCO application submission. A Construction Practice Addendum is being negotiated with the Land Agent Group. This is a document which would be an appendix to the agreed option agreements, addressing points a) to g) directly. The Construction Practice Addendum is not a DCO application document but is intended to provide additional detail to that contained within the outline Code of Construction Practice (document reference 7.13) and will serve as a legal commitment by North Falls as to how items a) to g) will be managed within the final Code of Construction Practice under requirement [8] of the [draft DCO (document reference 6.1)].	N
NFOWFS3_051_016_140723	12. NFU Engagement – The NFU would like to engage further with RWE on behalf of members that may be affected by the proposed scheme. The NFU would like to arrange a meeting with the project team as soon as possible to discuss and obtain further information on the points raised in this consultation response, specifically link boxes, the easement, construction width and construction programme.	Technical Consultation	Noted.	N

Consultee reference	Comment	Theme / code	Theme / code	Applicant's response	Project change (Y / N)
NFOWFS3_052_001_100723	Executive Summary AECOM has prepared this Technical Note (TN01) to provide a response to the North Falls Offshore Wind Farm (North Falls) Preliminary Environmental Information Report (PEIR), prepared by North Falls Offshore Windfarm Limited and dated May 2023. AECOM have been commissioned by National Highways to document a review of the PEIR documents associated with the proposed North Falls development. Following this review, AECOM make the following recommendations:	Introduction		National Highway's comments reflect the stage of the Project's development. Following the submission of the PEIR, the Applicant has undertaken further consultation with National Highways and provided clarification on transport matters. This has included multiple ETG meetings (summarised further within Table 11 in Appendix 27.4, document reference 3.3.67).	Y
NFOWFS3_052_002_100723	Recommendations regarded as critical to the acceptability of this DCO application: 1. The transport study area should include the full section of the A120 from A12 Junction 29 to Harwich, including A12 Junction 29. (Paragraph 3.5)	Traffic and Transport		The boundaries of the TTSA have been extended to include the A120 and A120/A12 junction. Section 27.3.1 of the ES (Chapter 27 Traffic and Transport) details the extents of the TTSA and that the TTSA has been agreed with National Highways on 5 September 2023 (summarised further within Table 11 in Appendix 27.4, document reference 3.3.67).	Y
NFOWFS3_052_003_100723	Clarification should be provided to confirm that the junctions between links on the SRN (including all A120 junctions and A12 Junction 29) are included as part of the study area. (Paragraph 3.6)	Traffic and Transport		The Applicant has discussed this matter with National Highways at an ETYG meeting (5 September 2023) and where it was confirmed that all junctions are included in the TTSA.	N
NFOWFS3_052_004_100723	3. Detailed drawings of proposed construction accesses AC12a, AC12b, AC13 and AC14 should be provided to National Highways for review to determine whether the proximity of these accesses to the A120 will impact the SRN. (Paragraph 3.10)	Traffic and Transport		The Applicant has discussed this matter with National Highways at an ETG meeting (5 September 2023) (summarised further within this Table 11). During this meeting it was confirmed that National Highways were content with the location of the proposed accesses and there would not be an interaction with the Strategic Road Network (SRN).	N

NFOWFS3_052_005_100723	4. Any further details relating to the mitigation measures of relevance to the SRN (i.e. a OCTMP, details on delivery time restrictions, and a HGV access strategy) should be provided to National Highways for review as and when they are prepared. (Paragraph 3.14)	Traffic and Transport	An OCTMP (Document Reference 7.16) is submitted with the DCO application. The OCTMP includes details of mitigation measures, delivery time restrictions and the access strategy. The OCTMP would be developed further in consultation with Essex County Council and National Highways prior to the commencement of the Project.	N
NFOWFS3_052_006_100723	5. Confirmation should be provided of the suitability of the SRN construction access junctions (A120/ B1035 Clacton Road, A120/ Bentley Road and A120/ Colchester Road) to accommodate the physical swept paths of the types of vehicles envisaged, without over-running kerb lines and/or adjacent traffic lanes. This should be provided in the form of swept path analysis drawings. (Paragraph 3.17)	Traffic and Transport	The TA (Appendix 27.1, document reference 3.3.64) includes copies of swept path analysis drawings showing vehicles travelling between the A120 and Bentley Road and the A120 and B1035. No HGV traffic is forecast to travel between the A120 and Colchester Road.	N
NFOWFS3_052_007_100723	6. With regard to traffic counts, a validation exercise is required given that National Highways guidance at the time of data collection in June 2022 required that the effect of Covid-19 is screened from traffic survey results. (Paragraph 3.23)	Traffic and Transport	The Applicant has discussed this matter with National Highways at an ETG meeting (5 September 2023) (summarised further within Table 11 in Appendix 27.4, document reference 3.3.67). During this meeting it was agreed the approach to data collection was acceptable. The approach to data gathering is outlined within Section 24.5.2 of the ES (Chapter 27 Traffic and Transport (Volume I)) and the accompanying TA (Appendix 27.1, document reference 3.3.64).	N
NFOWFS3_052_008_100723	7. Manual classified turning counts should be undertaken at key A120 junctions. These should be scoped with ECC and NH, prior to being collected and presented within the Traffic and Transport ES Chapter and TA (Paragraph 3.25)	Traffic and Transport		N

NFOWFS3_052_009_100723	8. Justification for excluding the assessment of the traffic impact from the construction period of the offshore elements of the development should be provided, or the traffic impact of the construction of the offshore elements of the development should also be assessed. (Paragraph 3.28)	Traffic and Transport	The preferred base port (or ports) for the offshore construction, operation and decommissioning of the Project is not known and any decision would not be expected until post-consent. Such facilities would be existing or would be provided or brought into operation by means of one or more planning applications or as port operations with permitted development rights. It has therefore been agreed with National Highways (at a meeting on the 7 June 2022) and Essex County Council (at a meeting on the 9 July 2021) to scope out of the assessment the onshore impacts of traffic and transport associated with offshore construction, operation and decommissioning activities. This approach has also been accepted by the Planning Inspectorate for other recently consented offshore wind farm projects, e.g. Norfolk Vanguard and Boreas, East Anglia Two, East Anglia One North and Hornsea Four.	N
NFOWFS3_052_010_100723	9. Driver delay assessment should be re-considered for the A120 portions of the study area due to the high sensitivity to such delay. (Paragraph 3.32)	Traffic and Transport	The Applicant has discussed this matter with National Highways at an ETG meeting (05 September 2023) summarised further within Table 11 in Appendix 27.4, document reference 3.3.67. During this meeting it was confirmed that National Highways do not require capacity assessments. Further details are provided within section 27.4.3 of the ES (Chapter 27 Traffic and Transport).	N
NFOWFS3_052_011_100723	10. The TEMPro growth factors should be provided for both the AM and PM peak periods. Further clarification regarding the parameters used to obtain the growth factors should be provided, such as the geography and the road type. (Paragraph 3.42)	Traffic and Transport	The TA (Appendix 27.1, document reference 3.3.64) includes details of the approach to forecasting future traffic flows using growth factors from the Department for Transport Trip End Model Presentation Programme software (known as TEMPro).	N

NFOWFS3_052_012_100723	11. The link screening should be updated once the recommendations regarding the traffic flows and junction capacity in this TN have been addressed. (Paragraph 3.43)	Traffic and Transport	Noted.	N
NFOWFS3_052_013_100723	12. National Highways should take an ongoing role as a consultee regarding any potential measures, including within an OCTMP, that could have an impact on the use of the SRN. (Paragraph 3.45 and 3.48)	Traffic and Transport	An OCTMP (Document Reference 7.16) is submitted with the DCO application. The OCTMP is secured by DCO requirement, which requires that National Highways be consulted on the final CTMP prior to the commencement of the Project.	N
NFOWFS3_052_014_100723	13. The consented container terminal development at Bathside Bay should be included as a committed development in the study, or justification for excluding it should be provided. (Paragraph 3.54)	Traffic and Transport	Table 27-38 of the ES (Chapter 27 Traffic and Transport) considers the potential for cumulative effects with the Bathside Bay Container Terminal (BBCT) and concludes that there is no potential for cumulative effects to occur between BBCT and North Falls.	N
NFOWFS3_052_015_100723	14. The significant increases in HGV flows on the A120, for the cumulative scenario, of up to 70%, merit further consideration and assessment in more detail at ES stage. (Paragraph 3.55)	Traffic and Transport	This matter was discussed with National Highways at an ETG meeting on the 5 September 2023 (summarised further within Table 11 in Appendix 27.4, document reference 3.3.67). National Highways agreed to provide further explanation in regard to this comment if they considered further assessment (beyond that presented at PEIR) would be required. No further comments have been provided by National Highways.	N
NFOWFS3_052_016_100723	15. Turning movements for each SRN junction in the study area should be provided in order to determine where junction capacity assessments are required on the SRN, unless further justification is provided for not doing so. For example, details of individual turning movements at the junctions concerned. This should be undertaken for all SRN junctions in the study area, including A12 Junction 29. (Paragraph 4.2)	Traffic and Transport	The Applicant has discussed this matter with National Highways at an ETG meeting (05 September 2023) summarised further within this Table 11. During this meeting it was confirmed that National Highways do not require capacity assessments. The supporting TA (Appendix 27.1,	N

NFOWFS3_052_017_100723	16. The maximum peak hour trip generation for the SRN should be provided for both the AM and PM peak. (Paragraph 4.3)	Traffic and Transport	document refernece 3.3.54) provides details of hourly traffic flows in support of this agreed approach. Further details are provided within section 27.4.3 of the ES (Chapter 27 Traffic and Transport (Volume I)).	N
NFOWFS3_052_018_100723	17. The figures within the table for distribution of local accommodation should be revisited and evidenced. (Paragraph 4.11) Recommendations regarded as important but not critical to the acceptability of this DCO application:	Traffic and Transport		N
NFOWFS3_052_019_100723	18. Where possible, a collaborative approach with the Five Estuaries Offshore Wind Farm project should be undertaken to reduce any impacts on the SRN. (Paragraph 3.7)	Traffic and Transport	Noted.	Z
NFOWFS3_052_020_100723	19. Reference should be made to the latest DfT Circular 01/2022, and also to Highway's England (now National Highways) 'The strategic road network: Planning for the future (A guide to working with Highways England on planning matters.' (Paragraph 3.19)	Traffic and Transport	Section 27.4.1 of the ES (Chapter 27 Traffic and Transport (Volume I)) includes a review of all legislation, policy and guidance applicable to the Project (including DfT Circular 01/2022).	N
NFOWFS3_052_021_100723	20. Clarification should be provided regarding the reasoning for only including 12 months of the construction programme in the highway assessment, when the construction period is stated to be 18-24 months in the PEIR. (Paragraph 3.28)	Traffic and Transport	The TA (Appendix 27.1, document reference 3.3.64) includes details of derivation of construction traffic demand for entire construction duration.	N
NFOWFS3_052_022_100723	21. An Abnormal and Indivisible Load report should be provided to National Highways for review. (Paragraph 3.35)	Traffic and Transport	An Abnormal Indivisible Load (AIL) study is provided as Appendix 27.2 (document reference 3.3.65) of the ES Chapter 27 Traffic and Transport. It can be noted from Appendix 27.2 (document reference 3.3.65) that National Highways have provided agreement in principle to this proposed route.	Y

NFOWFS3_052_023_100723	22. The five year period for collision analysis should exclude periods of COVID-19 restrictions, specifically the period between 1st March 2020 and 31st August 2021. (Paragraph 3.39) Page: 3 of 22	Traffic and Transport	The Applicant have discussed this matter with National Highways at an ETG meeting (05 September 2023) summarised further within Table 11 in Appendix 27.4, document reference 3.3.67). During this meeting a revised approach to the collection of collision data (from that previously agreed with National Highways) was agreed. The approach to data gathering is outlined within Section 27.4.2 of the ES (Chapter 27 Traffic and Transport (Volume I)) and the accompanying TA (Appendix 27.1, document reference 3.3.64).	N
NFOWFS3_052_024_100723	23. Sustainable travel measures should be explored and included within the OCTMP, such as promoting car sharing or the provision of staff minibuses. (Paragraph 4.7)	Traffic and Transport	Table 27-1 of the ES (Chapter 27 Traffic and Transport (Volume I)) outlines that the traffic forecasts presented within this chapter have applied an employee to vehicle ratio (car-share) of 1.5 persons per vehicle. An OCTMP (Document Reference 7.16) is submitted with the DCO application. The OCTMP includes outline travel plan measures, which would be developed further in consultation with Essex County Council and National Highways prior to the commencement of the Project.	N
NFOWFS3_052_025_100723	24. Within the distribution exercise, the proportion of traffic arriving from the A12 north of Junction 29 or west of Junction 29 should be defined, given the difference in potential final route to the site. (Paragraph 4.9)	Traffic and Transport	The TA (Appendix 27.1, document reference 3.3.64) includes further details of distribution of traffic at Junction 29 in the form of turning count diagrams.	N

NFOWFS3_052_026_100723	25. Data sources in relation to accommodation per postcode should be stated and the percentage split between local and non-local workers should also be set out. (Paragraph 4.11)	Socio- economic	The Applicant have discussed this matter with National Highways at an ETG meeting (05 September 2023) summarised further within Table 11 in Appendix 27.4, document reference 3.3.67. National Highways agreed that they would defer agreement of the approach to Essex County Council. The Applicant and Essex County Council have subsequently agreed an approach to the distribution of employee traffic. The agreed approach is detailed in the TA (Appendix 27.1, document reference 3.3.64) includes further details of distribution of employee traffic.	N
NFOWFS3_052_027_100723	1. Introduction 1.1. AECOM has prepared this Technical Note (TN01) to document a review of the package of reports subject to Consultation under Section 42 of the Planning Act. The reports have been prepared in support of the proposed North Falls Offshore Windfarm, which is a joint venture between SSE Renewables and RWE. The Preliminary Environmental Information Report (PEIR) documents have been prepared by Royal HaskoningDHV and approved by North Falls Offshore Wind Farm Ltd. AECOM have been commissioned by National Highways to review the PEIR Consultation documents associated with North Falls Wind Farm. 1.2. From the documents prepared for the Consultation, AECOM have identified the relevant PEIR documents to National Highways and therefore TN01 will document a review of the following: Chapter 1: Introduction; Chapter 27: Traffic and Transport; Appendix 27.1: Transport Assessment; Appendix 27.2: Interrelationships; Chapter 27: Traffic and Transport Figures; and Annex 3.1: Cumulative Effects Assessment Methodology (Table 9). 1.3. The statutory consultation for the North Falls development is proposed to run from 16th May 2023 to14th July 2023. A Statement of Community Consultation was published in Spring 2023 (as shown the North Falls Offshore Wind Farm website) in	Policy and Legislative Context	Noted.	N

accordance with Section 47 (6) of the Planning Act 2008. The process for the current consultation is set out in the Notice served under Section 37 of the same Planning Act. 1.4. The North Falls development is proposed to be		
an extension of the existing operational Greater Gabbard Offshore Wind Farm, which is a 504MW wind farm. The Wind Farm extension would be located off the coast of Essex and Suffolk. Due to the overall capacity of the project, it is considered a Nationally Significant Infrastructure Project (NSIP).		

NFOWFS3_052_02	8_100723	1.5. The strategic road network (SRN) within the Traffic and Transport Study Area as established in the PEIR consists of the section of the A120 from the section immediately east of A12 Junction 29, north of Colchester, where the A120 meets the A12, to the A120 / Parkeston Road I Station Road junction (Parkeston Roundabout) in Harwich, Essex. The A120 is a key east to west route in the East of England, running between M11 Junction 8 in the west to Harwich to the east. It is noted that the SRN terminates at Parkeston Roundabout and therefore AECOM welcomes the inclusion of the full extent of the SRN route from Colchester towards Harwich International Port in the study area. 1.6. The aim of TN01 is to enable National Highways to understand the impacts of the proposed development on the SRN, in order to inform the consultation ending on 14th July 2023. TN01 also intends to identify any further information/analysis that is recommended beyond the PEIR stage. 1. 7. For ease of reference, AECOM's main comments and recommendations are presented in bold and underlined text throughout the note. Recommendations that are critical to the acceptability of the development consent order (DCO) application are highlighted red. Recommendations that are of concern but are unlikely to be critical to the	Traffic and Transport	Policy and Legislative Context	Noted.	N
		of the development consent order (DCO) application				

NFOWFS3_052_029_100723		Introduction	Traffic and Transport	Noted.	N
	2. Review of PEIR: Chapter 1: Introduction 2.1. The introduction chapter of the PEIR provides background to the North Falls DCO application. The main information of relevance to the SRN within this chapter is the onshore red line boundary figure, which indicates the areas where there would be a direct interaction with the A120, which is shown in Figure 1. The red line boundary crosses the A120 to the east of the A120 / B1035 junction at Horsley Cross. The transport study area will be discussed in further detail later in this TN. **Figure 1: North Falls Orishore Project Boundary Map** **Figure 1: North Falls Oris				

NEOWES2 052 020 400722		Traffic and	Noted	N
NFOWFS3_052_030_100723	2. Deview of DEID: Chapter 27: Traffic and Transport	Transport	Noted.	N
	3. Review of PEIR: Chapter 27: Traffic and Transport			
	Scope - Study Area			
	3.1. This chapter of the PEIR discusses the potential for the construction and operation of the onshore elements of the proposed offshore wind farm to impact upon traffic and transport. The chapter identifies the scope, relevant legislation, assessment methodology, and the baseline conditions existing at the site and its surroundings.			
	3.2. The onshore highway study area is listed in this chapter (paragraph 27.3.1) and consists of a total of 42 separate highways sections, referred to as links. These are shown in Figure 27.1 of the PEIR (reproduced as Figure 2 below).			
	Figure 2: North Falls Traffic and Transport Study Area			
	The state of the s			
	3.3. As shown in Figure 2, some of the links in the study area are sections of the SRN. The links along the A120 within the study area from west to east are as follows: • Link 1; • Link 2; • Link 3; • Link 15; • Link 16; • Link 18; and • Link 19.			

2.4. The following links have notential to interesting with	 	
3.4. The following links have potential to interaction with the A120:		
 Link 20 (A133 junction with A120); Link 4 (Bentley Road with left in left out junction with 		
* Link 4 (Bentley Road with left in left out junction with		
the A120);		
Link 14 (B1035 Clacton Road north of roundabout Link 14 (B1035 Clacton Road north of roundabout		
junction with the A120);		
Link 6 (B1035 Clacton Road north of roundabout inpution with the A120); and		
junction with the A120); and		
Link 17 (Colchester Road near Goose Green).		

NFOWFS3_052_031_100723	3.5. AECOM welcome the inclusion of the sections of the A120 east of A12 Junction 29 to Harwich in the transport study area. However, AECOM note that the study area does not include the A120 approximately to the west of Elmstead. This excludes A12 Junction 29 and a potential new junction on the A120 that could emerge as part of proposals detailed in the proposed Tendring Colchester Borders Garden Community (TCBGC). It is recommended that the transport study area include the full section of the A120 from A12 Junction 29 to Harwich includin A12 Junction 29. 3.6. AECOM note that from the inset maps at Figure 27.2 of the PEIR, the highlighted links provide significant offsets from each junction, i.e. the study area includes the road links but not the junctions. It is recommended that in addition to the Traffic and Transport Links, all SRN junctions along the A120 as well as A12 Junction 29 should also be included in the study area.	Traffic and Transport		Noted.	N
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NFOWFS3_052_032_100723	3. 7. The proposed onshore cable routes and crossings as presented in the document are shown in Figure 3. It is noted that the cable crossing across the A120 involves a trenchless crossing, which is also applied to the crossing of the B1035 to the North West, and the crossing of Stones Green Road to the south. This approach to crossing of these sections of road is welcomed as it should prevent road closures on the SRN as a result of trenching. AECOM note that the proposed project study area is very similar to that of the proposed Five Estuaries Offshore Wind Farm, which also crosses the SRN immediately to the east of the A120 / B1035 junction. It is recommended that, where possible, a collaborative approach with the Five Estuaries Offshore Wind Farm project is undertaken to minimise any impacts on the SRN.	Traffic and Transport	Onshore Archaeology and Cultural Heritage	Noted.	N
	Figure 3; Proposed Onshore Cable Routes and Crossings				
	3.8. The proposed accesses and crossings are shown below in Figure 4. The accesses that relate to the A120 are as follows: • AC12a (Colchester Road at Goose Green, south of the A120 on the west side) • AC12b (From B1035 to the south of the A120, on the east side) • AC13 (From B1035 to the north of the A120, on the east side) • AC14 (From B1035 to the north of the A120, on the west side)				

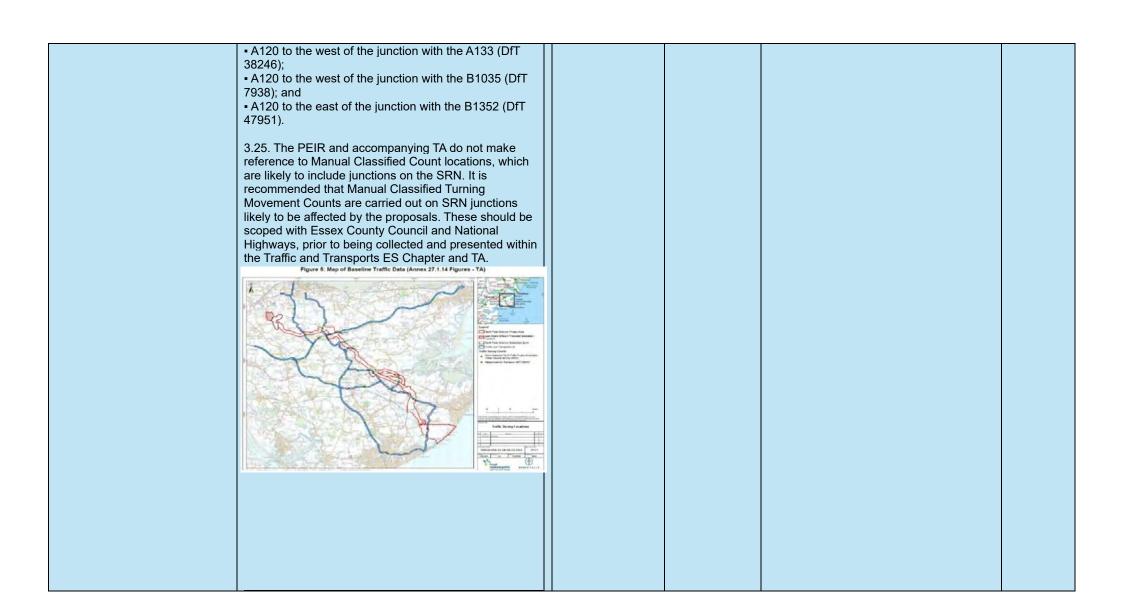
3.9. Although the accesses are in proximity to the A120,	
particularly AC12a and AC12b, direct access from the	
A120 to the site boundary is not proposed. AECOM	
welcomes this aspect of the proposal.	
3.10. Proposed accesses AC13 and AC14 are located	
some 850m north of the junction of the A120/ B1035.	
Proposed access AC12a is proposed to be taken from	
Colchester Road, adjacent south of the A120. It is	
recommended that detailed drawings of proposed	
construction accesses ~C12a, AC12b, AC13 and AC14	
are provided to National Highways for review to determine whether the proximity of these accesses to	
the A120 will impact the SRN.	
Figure 4: Proposed Accesses and Crossings	
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Regime) Areas and Creatings	
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The state of the s	

NFOWFS3_052_033_100723			ffic and Noted.	N
	Consultation 3.11. Section 27.2 of the chapter sets out the consultation process carried out to date. This includes a			
	meeting between the applicant and National Highways on 7th June 2022, and a follow up email of 8th November 2022. The summary of consultation is set ou in Table 1 below.	t		
	Table 1: Consultation responses (extract from Table 27.1 of PEIR chapter)			
	Consultee Date Document Summary of Comment Response / where addressed in the PEIR A meeting was held with National			
	Highways to discusse: - The previously as conson from the A120; - The retrient of the T134; - Approach to data cardiction; - Impacts to be resemed; - Propriet DAD distanced by the State of the State			
	In response to consultation with National Highways upon a range of access options in the volve) of the A120 National Highways upon a range of access options in the volve) of the A120 National Highways abrided that they with to avoid any new access to the A120 of access of a reproduct to the design of new access to the A120 National Highways and advised that the project to be based profess access to the A120. By would prefer that the project to be taken that the project through the project to the taken to the project to be taken to the project to the taken to the project to be taken to the total project to the taken to the project to the taken to the total project to the taken			
	3.12. It is noted that AECOM has not been involved in the consultation process to date on behalf of National Highways, and therefore the commitments within the summary table cannot be verified against the assessment methodology set out in the PEIR. It is however noted and welcomed that direct access would not be sought from the SRN. It is also welcomed that Table 27.2 of the PEIR sets out a set of development assumptions that will underpin assessments for North Falls, referred to as the 'Realistic worst case scenario'. 3.13. Section 27.3.3 of the PEIR chapter introduces Table 27.3 which sets out the mitigation measures that will be put in place as part of the design. The measures relevant to National Highways comprise the following: • Outline Construction Traffic Management Plan (OCTMP); • Delivery time restrictions; and • An Access Strategy that seeks to reduce HGV			

impacts, by implementing a haul road along the onshore cable route, the creation of vehicle crossovers, and controls on vehicle routing. 3.14. These measures are considered reasonable by AECOM, subject to review of further and emerging detail. It is recommended that any further details relating to the mitigation measures of relevance to the SRN (i.e. a OCTMP details on delivery, time restrictions, and a HGV access strategy) are provided to National Highways for reviews as and when they are prepared. 3.15. As set out in Table 27.3 in the chapter, the construction access strategy is designed to avoid sensitive communities and narrow roads. The access locations in the vicinity of the SRN are shown in Figure 27.2c of the chapter (Figure 4 above in this TN). None	
cable route, the creation of vehicle crossovers, and controls on vehicle routing. 3.14. These measures are considered reasonable by AECOM, subject to review of further and emerging detail. It is recommended that any further details relating to the mitigation measures of relevance to the SRN (i.e. a OCTMP details on delivery, time restrictions, and a HGV access strategy) are provided to National Highways for reviews as and when they are prepared. 3.15. As set out in Table 27.3 in the chapter, the construction access strategy is designed to avoid sensitive communities and narrow roads. The access locations in the vicinity of the SRN are shown in Figure	
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HGV access strategy) are provided to National Highways for reviews as and when they are prepared. 3.15. As set out in Table 27.3 in the chapter, the construction access strategy is designed to avoid sensitive communities and narrow roads. The access locations in the vicinity of the SRN are shown in Figure	
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sensitive communities and narrow roads. The access locations in the vicinity of the SRN are shown in Figure	
locations in the vicinity of the SRN are shown in Figure	
27.2c of the chapter (Figure 4 above in this TN). None	
of the highway access locations fall on the SRN itself,	
although the access from the B1035 (Access 12b), is	
located immediately to the south of the A120/ B1035	
junction. As discussed earlier in this TN, AECOM are	
recommending that detailed drawings of these accesses	
are provided to National Highways for review.	
are provided to realistical ringriways for review.	
2.16. It is antisinated that may amonto to and from the	
3.16. It is anticipated that movements to and from the	
construction access and the A120 via the LRN will take	
place at the following SRN junctions:	
A120 / B1035 Clacton Road 'Horsley Cross'	
(roundabout junction);	
• A120 / Bentley Road, Little Bromley (priority junction)	
and	
■ A120 / Colchester Road, Goose Green (priority	
junction).	
janeau.).	
3.17. It is recommended that confirmation is provided as	
to the suitability of these junctions to accommodate the	
physical swept paths of the types of vehicles envisaged,	
without over-running kerb/lines and/or adjacent traffic	
lanes. This should be provided in the form of swept path	
analysis drawings.	

NFOWFS3_062_034_100723 Legistation, guidance and policy of a price of the pater includes a review of a range of national and local planning policy documents, including the following: National Policy Statements (NSIPs) (DEC 2011a-C): Tendring District Local Plan (2013-2033 and beyond): Traffic Amagement Act (2004): New Roads and Street Works Act (1991): New Roads and Street Works Act (1990). 3.19. AECOM welcome in is, and he inclusion of the DTT Circular 022013. However, the document has been provided by the patern of the DTT Circular 022013. However, the document has been provided by the patern of the DTT Circular 022013. However, the document has been provided also be made to Highways England's (now National Highways). The Strategic road network: Planning for the future (A guide to working with Highways England on planning matters): 2.20. The document also considered the following key guidance documents with regards to the scoping and methodology of the traffic and transport review: Department of Levelling Up. Housing and Communities (DLUHC), Planning Practice Guidance — Overarching Principles on Travel Plans, Transport Assessment (EMA), Guidelines for Environmental Assessment of Road Traffic (CEART) (1) 1-Beign Manual for Roads and Bridges (DMRB) CD 1-Beign Manual for Roads and Bridges (DMRB) CD 1-Beign Manual for Roads and Bridges (DMRB) CD 1-Beign Manual for Road Traffic (Searcy Measures and Signs for Road Works and Traffic Signs Manual Chapter 8 Traffic Safety Measures and Signs for Road Works and Traffic Signs Manual Chapter 8 Traffic Safety Measures and Signs for Road Works and Traffic Signs Road Works and Traffic	3.18. Section 27.4.1 of the chapter includes a review of a range of national and local planning policy documents, including the following: * National Policy Statements (NSIPs) (DECC 2011a-c); * Trandring District Local Plan (2013-2033 and beyond); * December 20. Section 1. Section 20. Secti
documents.	documents.

NEOWES2 052 025 400722		Traffic and	Noted	N
NFOWFS3_052_035_100723		Transport	Noted.	N
	Data Sources	Παιιομοίτ		
	3.22. The PEIR states that both existing and new data			
	sources have been utilised to establish the baseline			
	traffic data for the study area. Existing data has been			
	obtained from the following sources:			
	 Annual Average Daily Traffic (AADT) flows for the 			
	Local Road Network (LRN) and Strategic			
	Road Network (SRN) within the study area (DfT			
	National Road Statistics, 2019 counts);			
	• Traffic flows from permanent traffic counters on two			
	links (Essex County Council);			
	Collision data for the study area (Essex County			
	Council);			
	PRoW maps for the study area (Essex County Council); and			
	STATS19 accident data for the LRN (Essex County)			
	Council).			
	• A120 to the west of the junction with the A133 (DfT			
	38246);			
	• A120 to the west of the junction with the B1035 (DfT			
	7938); and			
	 A120 to the east of the junction with the B1352 (DfT 			
	47951).			
	AECOM			
	2 02 Novedstakaa kaa kasa aktainad wain n Automotia			
	3.23. New data has been obtained using Automatic			
	Traffic Counters (ATCs), which were installed from 9th June 2022 to 15th June 2022 at 30 locations across the			
	study area to collect traffic flow and speed data.			
	AECOM note that in June 2022, special guidance			
	(210803-RWS-Data Collection in Autumn 2021			
	Guidance-Issue 1_0) was still in place in relation to the			
	impact of Covid on traffic flows. This guidance required			
	practitioners to take a number of steps to ensure that			
	data collected between 1st September 2021 and 31st			
	August 2022 was carefully reviewed to screen out the			
	effect of Covid-19 on the dataset. This guidance was not			
	withdrawn until September 2022 and therefore its			
	provisions should be taken into account in deriving base			
	flows for the assessment.			
	2.24. The study gree for data collection is shown an			
	3.24. The study area for data collection is shown on a map in relation to the PEIR red line boundary in			
	Figure 5 below. This shows the locations where there is			
	existing data (obtained from the DfT Road			
	Traffic Data website) or new data (ATCs). AECOM note			
	that the data collection locations on the SRN consist of			
	the following:			
	and renowing.			



NFOWFS3_052_036_100723	Impact Assessment Methodology 3.26. The assessment methodology section in the chapter identifies the approach to determining traffic impacts from the construction phase, which follows from meetings with ECC (9th July 2021), and National Highways (7th June 2022). The method follows the IEMA GEART (Guidance for the Environmental Assessment of Roads and Traffic) and is presented subsequent to the Traffic and Transport Method Statement (TTMS). Although AECOM did not review this document, the approach as set out in Section 27.4.3 of the PEIR chapter appears to be acceptable. AECOM also agree that, due to the nature of the proposals, it is appropriate that traffic impacts during the operational stage have been	Traffic and Transport	Noted.	N
	scoped out. 3.27. The PEIR presents construction trip generation from the TA which has been calculated using a first principles approach. It states that the traffic impact has been determined based on the level of anticipated traffic in terms of personnel and materials for the onshore element during the construction period. AECOM note that this methodology therefore does not assess the impact of the construction of the offshore windfarm itself, but rather only the construction of onshore elements of the development. It is recommended that either justification for excluding the assessment of the traffic impact for the construction period of the offshore elements of the development, or that the traffic impact of the construction of the offshore elements of the development should also be assessed.			

NFOWFS3_052_037_100723	3.28. AECOM note that the PEIR (Table 27.2) states that the construction programme is anticipated to be approximately 18-24 months, however the maximum number of vehicle movements has been taken into account in the assessment over a period of 12 months. It is understood from paragraph 144 of the PEIR that National Highways agreed with an assessment year of 2026 at the transport Expert Topic Group on 7th June 2022. AECOM recommend that further clarification should be provided regarding the reasoning for only including 12 months of the construction programme in the highway assessment, when the construction period is stated to be 18-24 months in the PEIR. Rule 1: Include highway links where traffic flows are predicted to increase by more than 30% (or where the number of HGVs is predicted to increase by more than 30%); and Rule 2: Include any specifically sensitive areas where traffic flows are predicted to increase by 10% or more (or where the number of HGVs is predicted to increase by 10% or more). 3.29. The PEIR states that the traffic impact from the construction period has been compared to the baseline traffic in the study area. 3.30. The PEIR identifies the traffic impact magnitude definitions, sensitivities, and the methodology to determine significance. In Section 27.4.3.1.2, the magnitude is defined on the basis of two rules:	Traffic and Transport	Noted.	N
	baseline traffic in the study area. 3.30. The PEIR identifies the traffic impact magnitude definitions, sensitivities, and the methodology to determine significance. In Section 27.4.3.1.2, the			
	increase by more than 30%); and • Rule 2: Include any specifically sensitive areas where traffic flows are predicted to increase by 10% or more (or where the number of HGVs is predicted to increase by 10% or more).			

NEOWES3 052 038 100723 3 31 The sensitivity of recentors is set out and 1 Traffic and 1 Noted		
defined within Table 27.10. The SRN network is categorised as of negligible sensitivity. The justification for this is set out as follows: Links that fall below GEART Rule 1 and 2 screening thresholds (see below) and major 'A' roads with no pedestrian, cycle or equestrian environment. or highway environment that can accommodate changes in volumes of traffic. It is accepted that the A'120 deseron that the control of traffic and the continues of the continues of traffic and the continues of the con	categorised as of negligible sensitivity. The justification for this is set out as follows: 'Links that fall below GEART Rule 1 and 2 screening thresholds (see below) and major 'A' roads with no pedestrian, cycle or equestrian environment, or highway environment that can accommodate changes in volumes of traffic'. It is accepted that the A120 does not provide an environment for non-motorised users, but the ability to accommodate changes in in volumes of traffic is a matter that is not confirmed without assessment. At particular locations (such as low-standard or low-capacity junctions between the SRN and the local road network), increases of magnitudes below those listed above can be material in terms of the risk of a severe impact on the SRN in terms of either traffic capacity and/or road safety. Notwithstanding this, it is noted that for the Five Estuaries Wind Farm proposals, on which AECOM has previously provided advice to National Highways, there is an overlapping study area and also screens all parts of the A120 as subject to negligible sensitivity. 3.32. It is noted in Paragraph 62 of the PEIR chapter that the ECO Local Transport Plan reports that the A20 (comprising links i · 2, 3, 15, 18 and 19) suffers from journey unreliability, and that the road is traffic flow. For the purpose of an assessment of Driver Delay, the route therefore ments further consideration. It is recommended that a more detailed assessment is made for the A120 within the study area (including lis junctions - which should encompass A12, J29) based on it having high sensitivity to Order delay, the PEIR, in Table 27.11 defines negligible magnitude as 'no or single lane road closure required, or delays of less than two minutes'. Low magnitude is defined as 'delays of more than two to 10 minutes'. Delays above 10 minutes are subject to a review based on quantum of vehicles including buses and pedestrian and cycle traffic and are defended as of edays of the straffic and are defended as of edays of more than two to 10 minutes'.	N

NFOWFS3_052_039_100723						Traffic and	Noted.	N
	3 34 Section	on 27.4.3 lm	nact Acco	seemant Ma	ethodology	Transport		
		e standard n						
		d proposes t						
		afety, Driver						
		Closures), ar			ne			
	methodolog	gy is accepte	ea by AEC	JOM.				
	0.05.14511							
		regard to Ab						
		graph 25 of						
		/2013 states						
					requirement			
		within Parag						
		is stated in I						
		at AIL impact						
		nt at the Exp						
					nclusion and			
		gy is welcom						
		ted that to d						
		n relation to A						
					t is provided			
	to National	Highways o	once drafte	ed.				
		27.11 of the						
		of impact wi						
		e matrix is s		l accepted,	, which is			
	shown in Ta	able 2 below	٧.					
		efinition of magnitude of		Sewel standers	PEIR chapter)			
	Impacts	Negligible	Magnitud	e of Impact Medium	High			
	Severance	Change in total traffic flow of less	Change in total traffic flows of 30	Change in total traffic flows of 60 to	Change in total traffic flows of over			
		fhan 30%	to 60%	90%	90%			
	Anima	Change in traffic		HGV composition	% increase in traffic (or n) and a review based.			
	Amenity	composition) of les		upon the quanta	im of vehicles, vehicle sedestrian frotfall.			
	Highway Safety	Informed by a review	w of existing collision re increase	cords from within the TTS in traffic				
	Driver Delay (Capacity)	informed by a rev	view of the potential inci	rease in peak hour traffic and links.	through sensitive			
	Driver Delay (Highway Geometry)	Informed by a rev	view of the potential inco	ease in peak hour traffic	through sensitive			
		No or single lane	2000		minutes and a review			
	Driver Delay (Road Closures)	road closure required, or delays	Delays of more two to 10 minutes	scheduled buser	quantum of vehicles, is and pedestrian and			
		of less than two minutes.	Marie Town	cyc	de traffic.			
		criteria above						

AECOM Task DN0 Offshore Wind Far	nt with those reviewed as part of 63 (Dudgeon and Sheringham m Extensions) which was prepared ultant and accepted as appropriate by proposals. The methodology for		
gathering schemes also accepted by A	proposals. The methodology for s for cumulative effects assessment is ECOM.		

NFOWFS3 052 040 100723	Existing Environment	Traffic and	Noted.	N
141 0441 33_032_040_100723	LAISUNG LIMITONNICH	Transport	Noteu.	IV
	3.38. It is recognised by AECOM that the criterion for			
	assessing sensitivity is such that the A120 links are categorised as negligible due to a lack of a			
	pedestrian and cyclist environment and their capacity			
	to accommodate changes in traffic levels.			
	3.39. With regard to highway safety, a series of			
	collision clusters have been identified and set out in			
	Table 27.15 of the PEIR chapter. The cluster that relates directly to the SRN is Cluster Site 6, which is			
	the A120 / A133 grade separated junction. During the			
	five-year study period (2017-2022), a total of 13 collisions were recorded, of which eight were			
	classified as slight and four as serious. One fatal			
	collision was recorded. Cluster site 5 would also be of interest, given that it is located at the end of a link			
	road from the A120, and although within the local			
	road network, collisions have the potential to cause			
	congestion on the A120. It is recommended that the five year period for collision analysis is extended such			
	that it does not include periods where COVID-19			
	restrictions were in place. This should therefore exclude the period from 1st March 2020 to 31st			
	August 2021 inclusive.			
NEOWEC2 052 044 400722	Future Trends in Recelling Conditions	Troffic and	Noted	N
NFOWFS3_052_041_100723	Future Trends in Baseline Conditions	Traffic and Transport	Noted.	N
	3.40. A construction start date of 2026 has been			
	assumed for the traffic assessments. The assessment uses TEMPro growth factors to factor the			
	2019 baseline AADT data to the assessment base			
	year of 2022. The growth factor that has been used for the conversion of 2019 data to 2022 is 1.0588 for			
	the A120.			
	2.44 For the future year baseline acceptant flows			
	3.41. For the future year baseline assessment flows, the AADT traffic flows on the construction route			
	highway links have also been factored up using			
	TEMPro growth factors. The factor to bring the traffic from 2022 to 2026 levels is 1.0588.			
	3.42. AECOM note that the TEMPro growth factors are not differentiated between LRN and SRN routes,			
	nor specified per peak hour. From the information			
	provided, AECOM have been unable to replicate the growth factor figures presented in the Transport			
	Assessment. It is recommended that the TEMPro			

growth factors are provided that are specific to SRN, using the NTEM growth model, and the AM and PM peak periods. Further clarification regarding the parameters used to obtain the growth factors should be provided, such as the geography and the road type.		

NFOWFS3_052_042_100723	Assessment of Significance 3.43. Table 27.17 in the PEIR demolinks which have been marked as so of this is shown in Table 3 below. As once the recommendations raised that the link screening the recommended that the link screening the recommendations regarding traigunction capacity in this TN have be table should also be revisited in ord flows reflect the relationships betwee B1035 and B1352, as the replication across is often not representative of conditions.	creened out. A copy ECOM note that earlier in this TN inge. It is ing is updated once effic flows and en addressed. The eer to ensure that the iven the A120, A133, in of base flows	Traffic and Transport	Noted.	N
	Table 3: Link screening for SRN (extract from Table	27.17 of PEIR chapter)			
	Link ID Link Link AADT Link ID Description Sensibuty AB AB HOVS	All HGVs All HGVs			
	vehicles HOV vehicles (peak) A120 from	vehicles (average) vehicles (average)			
	1 the A12 in Negligible 49,188 3,047 1,117 585 the A133 A120 from 2 He A133 in Negligible 49,188 3,047 873 565	788 432 2% 19% 625 432 2% 19%			
	Road A120 honr Harrisch Aload to Negligble 13,964 1,819 918 566 Bentoy	862 432 7% 31%			
	Road A120 from Bentley 15 Road to the Negligible 13,954 1,819 723 565	539 432 5% 31%			
	B1035 A120 from the B1035 to Negligible 13,964 1,819 785 665 Golchester	579 432 5% 31%			
	Road A120 from 18 Cotchester Negligible 11,564 1,822 574 565	438 432 5% 35%			
	## 81552 A120 from the B1552 10 to hegligble 11,564 1,622 565 565 10 fo hegligble 11,564 1,622 565 565 565 10 fo hegligble 11,564 1,622 565 10 fo hegligble 11,564 1,622 565 10 fo heg	432 432 5% 35%			
	3.44. With regards to highway safet set out in Table 27.23 of the PEIR c the six collision clusters and three k merited further consideration. An ex is set out below in Table 4.	hapter in relation to ocal roads that			

	Table 4: M	egnitude of	highway safety impact and	sensitivi			
	Receptors	Location	Summary of collisions and sensitivity	Links	Percent:	HGVs	Magnitude of impact
	Chester Site 6	A129/A133 grade separated separated partition.	During life fine-year shally presed (2017-2022), a total of 13 collisions were recorded, of which eight were recorded, of which eight was recorded where a podestian crossed the live land was shoot by a car. Of the 13 collisions at chores and was shoot by a car. Of the 13 collisions at chores control of the collision with a pedestian crossed the live land was shoot by a car. Of the 13 collisions at chores control, four week reas and shall and one was a consideration was a consideration with a pedestrone in Control four week reas and shall and one was a consideration with a service and control four week of the control four week of the control for t	2/20	1.2%	16.19%	Casative side is located at the statement of the statemen
f f k / k r r t	magnitsignification of the control o	ude o ance d 185 a futi aph 1 ussed M rece d to N mende a cor uld ha with re ee im es. Tal and conks, a	consider the ure OCTMP to 86 states that d with ECC. A commend that, National High ed that Natior as are an impact egard to Drive pacts; capacible 27.26 in the concludes a new well as all A centage increase.	at a h a h a da a h a h a h a h a h a h a	nigh so actional initial initiani initiani initial initial initial initial initial initial initial initial initial ini	ensitival de la constitue de l	vity and the . Paragraphs ation in the ntial risks proposals will rlier in this TN, the OCTMP is It is also the an ongoing al measures the SRN. the capacity ude for all is on the basis
r	daily flucad classics on side	uctuat osure ered f is no	change, and ions in traffic. s would not a urther by AEC ted in Paragrational phase	The ffect COM.	high the S	way go SRN so f the F	eometry and o are not

NFOWFS3_052_043_100723	Potential Monitoring Requirements 3.48. As noted earlier with in this TN, the production of an OCTMP will be a key element of mitigation. This will also have an important role in terms of monitoring. As per the previous recommendation, National Highway should have a role in the agreement of the monitoring procedures.	Traffic and Transport		Noted.	N
NFOWFS3_052_044_100723	Cumulative Impacts 3.49. Under the first step of the Cumulative Effects Assessment (CEA), a list of the potential cumulative impacts has been set out, consistent with the principal assessment. Only impacts greater than negligible have been taken forward to CEA stage, an approach considered appropriate by AECOM. 3.50. The second step of the CEA is a longlist of relevant projects, plans and activities occurring within the study area, with proposals both emerging and consented included. 3.51. The study includes a review of consented development proposals within the Tendring, East Suffolk and wider Essex vicinity, to identify schemes that would have an impact on permanent baseline traffic flows on the study's highway links. The review identified a total of 16 projects in the vicinity that are emerging or approved under the National Infrastructure Planning regime. A total of 29 projects within the remit of ECC decision making at county level have been included. A total of three projects for determination or approved by Tendring District Council have been set out. Further to the review of cumulative schemes; the following proposals are included in the study: • East Anglia GREEN (AECOM note that this is now called Norwich to Tilbury); and • Five Estuaries Offshore Wind Farm.	Traffic and Transport	Technical Consultation	Noted.	N

NFOWFS3_052_045_100723	3.52. AECOM welcome the inclusion of these two development proposals.	Traffic and Transport	Noted.	N
	3.53. It is highlighted that AECOM has provided a series of reviews for National Highways on Five Estuaries Offshore Wind Farm. For the purpose of comparison with the two schemes above, the schemes below are those that were scoped in for CEA at PEIR stage.			
	3.54. As AECOM stated in the PEIR stage review for Five Estuaries Offshore Wind Farm, it is also noted by AECOM in this TN that the consented development of Bathside Bay at Harwich International Port has not been included in either the primary or cumulative assessment for the assessment of North			
	Falls Offshore Wind Farm. It is recommended that the consented container terminal development at Bathside Bay is included as a committed development in the study, or that justification for excluding it is provided.			
	3.55. Notwithstanding the above, Table 27.33 of the PEIR chapter sets out the Indicative Cumulative Traffic Flows, which is for North Falls and Five Estuaries Wind Farms. It is noted that the table suggests some substantial increases in HGV percentages in the cumulative scenario, including up to 70% on the A120 between Colchester and Parkeston Road (Harwich). AECOM considers that such levels of change are significant and should be			
	considered in further detail at ES stage.			

NFOWFS3_052_046_100723	Review of PEIR: Appendix 27.1 Transport Assessment	Traffic and	Noted.	N
NFOWFS3_052_046_100723	Assessment 4.1. Appendix 27.1 of the PEIR contains the Transport Assessment, which documents the baseline traffic conditions in the study area and sets out the assessment that is applied to the relevant PEIR chapter. Baseline Traffic Flows 4.2. The baseline traffic flows that are set out within the PEIR chapter and the TA include identification of the AADT (Annual Average Daily Traffic) including for HGVs, AAWT (Annual Average Weekday Traffic), and the highway network peak hours. The SRN traffic flows have been obtained from 2019 DfT counts, whereas the local road network flows within the study area have been taken from ATCs in 2022. Junction turning counts have not been included. It is recommended by AECOM that peak period junction turning counts are surveyed for the junctions which are part of the SRN. The commissioning of surveys would assist in developing both a more detailed and up to date understanding of the performance of junctions on the A120. This would inform a review on whether junction assessments should be carried out. This should be undertaken for all SRN junctions in the study area, including A12 Junction 29. 4.3. The approach to traffic growth is discussed within the TA. AECOM's review of this has been addressed within the review of the PEIR chapter documented in	Traffic and Transport	Noted.	N
	this TN. It is also noted that the peak hours that are referred to in Paragraph 16 of the TA are not defined, nor are they considered further. It is recommended that assessment peak hours are agreed and considered for any future assessments.			

NFOWFS3_052_047_100723	4.4. The TA states that it was agreed between the Applicant and National Highways at the meeting on 7th June 2022 that a cluster is location where there are more than four collisions in four years. Data was collected for the five year period from 2017 to 2022. As recommended earlier in this TN whilst reviewing the PEIR chapter, AECOM recommend that the collision analysis should exclude the time period in which COVID-19 restrictions were in place. As referred to earlier within this TN, there is a collision cluster on the SRN in the vicinity of the grade separated junction between the A120 and A133. Paragraph 91 of the TA summarises that "there have been a total of 13 collisions at cluster site 6, of which, eight were loss of control, four were rear-end shunts and one was a car colliding with a pedestrian. It can be concluded that there is an emerging pattern of collisions involving drivers losing control whilst negotiating the junction". AECOM agree, that from the data including the COVID- 19 restriction period, there appears to be a collision cluster in this location.	Traffic and Transport		Noted.	N
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NFOWFS3_052_048_100723	Construction Trip Generation and Assignment	Traffic and	Noted.	N
141 0441 00_002_0 10_100720	Concadadi Trip Concidation and 7.65.igninon	Transport	110.00	
	Material and Personnel Demand			
	4.5. This abouter of the TA discusses the trip			
	4.5. This chapter of the TA discusses the trip generation methodology and outputs, which are			
	based on a worst-case scenario. The trip generation			
	in the TA has been calculated by applying the			
	following four parameters:			
	 The likely minimum construction programme duration (and therefore maximum activity intensity); 			
	Peak demand for materials and personnel;			
	Like mode share; and			
	The assignment of traffic.			
	4.6. A first principles approach has been used to			
	4.6. A first principles approach has been used to determine the trip generation, which has been based			
	on the developer's experience of constructing similar			
	projects. The first principles approach generates			
	traffic volumes from an understanding of material			
	quantities and personnel numbers required for North Falls Wind Farm and converts these metrics into			
	vehicle trips. The data that informs this approach is			
	contained within Annexes 27.1 .5 and 27. 1.6 of the			
	TA, and it is accepted by AECOM that this overall			
	approach is the most appropriate means of deriving			
	trip generation.			
	4.7. The TA also makes note that light vehicle			
	movements, which are attributed to staff, have been			
	based upon a ratio of one employee to one vehicle,			
	whereas in reality car sharing may take place or use minibuses provided by the contractor. It is noted that			
	no factors have been applied to reduce the trip			
	generation, and that the assertion is made that the			
	trip generation could represent the worst-case			
	scenario for flows on the A120. It is acknowledged by			
	AECOM that the peak construction activity for HGVs and light vehicles has been taken forward for			
	assessment within the PEIR assessment. Further to			
	this, AECOM recommend that sustainable travel			
	measures are included within the OCTMP, as a			
	mitigation measure in order to promote car sharing and the use of staff minibuses, in accordance with			
	guidance in the latest DfT Circular 01/2022.			
	4.8. The total traffic demand has been distributed			
	onto five sections along the cable route corridors			
	based upon the maximum length of onshore cable			

corridors that can be served from each access. The		
total traffic demand for each peak month is stated as 770 light vehicle trips and 427 HGVs.		
770 light vohicle trine and 427 HCVs		
170 light vehicle trips and 427 mg vs.		

NFOWFS3_052_049_100723									Traffic and	Noted.	N
111 0111 00_002_010_100120									Transport	110104.	
	Constru	uction	Traffic	Assign	ment						
						are assig					
								towards			
						a. Propo					
						ction as					
						ned that					
						sessmer					
						is the m or west.					
						er, it has					
						ortion, c					
						tion 29 c					
						hat the p					
						ns on the					
	the site					5.1 616					
	The TA	state	s that li	aht veh	icle tri	ps, whic	h will r	elate to			
								rce or a			
						ght in fro					
								y locally			
						states th					
						l not like					
						en prepa					
								te to the			
				has al	so bee	en create	d to fa	ctor in			
	local er	mploy	ees.								
	1 40 T										
								per post			
		uster	wnich is	s also i	ocated	i in Anne	X 27.1	.8 in the			
	TA.										
		Table 5:	Distribution of	f local accom	modation (e:	xtract from Anne	x 27.1.8 of T	A)			
	Postcode	Entry	No of rooms per	Journey time	Factor'	% Distribution	Entry Link	% distribution by point of			
	Entry fink	Link 10	postcode 84	(minutes)	0.4	4%		entry			
	IP3	Link 10	60	29	0.5	4%					
	IP2	Link 10	254 28	32	0.1	196					
	IP13	Link 10	32	43	1.3	11%	Link 10	69%			
	IP12 IP8	Link 10 Link 10	108	43.	1.9	17%					
	IP14										
	IP8 C010	Link 10	18	32 45	2.5	21%		_			
	006	Link 1	367	35	0.5	1%	Link 1	23%			
	CO4	Link 1 Link 3	267	20 36	0.1	2%	Link 3	2%			
	CO16 Link 54 89 19 0.2 2% Link 34 2%						Link 34	2%			
	°Facto	Link 24 or equates	to number of	rooms per mi	0.5 nute of jour	5% ney time	Link 24	5%			
	, 544			Part In	are to leave						

4.11. Whilst the distribution in relation to non-local, temporary accommodation based journeys is understood in principle, it is recommended that sources for the data, most notably in relation to accommodation per postcode, are stated, and that the percentage split between local and non-local workers should be set out. In addition, AECOM have carried out a sense-check on the numbers in the table above and consider the allocation of hotel rooms to postcodes to be counterintuitive in relation to the towns with in each postcode, and the allocation of the percentage distribution also appears not to reflect the numbers of rooms or the stated journey times. The numbers in this table should be re-visited and the evidence supporting them provided. 4.12. The distribution for trips made by the local labour force has been determined using 2011 Census workplace statistics and assigned to the network using the same gravity model. The approach to determine and assign the distribution of light vehicle trips is accepted by AECOM. It is forecast that some 87% of local labour force trips would be made using the A120, of which 85% would travel from the west, and 2% from the east towards site.		

NFOWFS3_052_050_100723	Access Strategy Construction Access 4.13. Section 5.1 of the TA states that there could be up to 16 points of access from the public highway, and 22 haul road crossings, allowing traffic to cross the highway. The locations of the proposed accesses and crossings are shown on Figure 27.1.2 of the TA. 4.14. It is proposed that all construction accesses and crossings would be temporary and, following completion of construction works, would be removed. Whilst the accesses are not directly onto the SRN, the commitment to providing a Stage 1 Road Safety Audit in the DCO is welcomed by AECOM.	Traffic and Transport	Noted.	N
NFOWFS3_052_051_100723	Operational Access 4.15. Although the accesses are proposed to be removed following the construction phase, a new permanent access would be provided at Ardleigh Road, Little Bromley for maintenance purposes that will typically attract light vehicle trips. Given that the operational phase will not be assessed, and the proposed access will be at some distance from the SRN, the operational requirements have not been considered further by AECOM.	Traffic and Transport	Noted.	N
NFOWFS3_052_052_100723	5. Conclusion 5.1. Upon reviewing the PEIR consultation documents provided in association with the proposed North Falls Wind Farm, AECOM have made a number of recommendations throughout this TN. 5.2. For ease of reference, AECOM's main comments and recommendations are presented in bold and underlined text throughout the note. Recommendations likely to be critical to the acceptance of the DCO application are highlighted red. Recommendations that are important but are unlikely to be critical to the acceptance of the DCO application are highlighted in amber.	N/A	Noted.	N

Consultee reference	Summary of comments	Theme/code	Theme/code	Applicant's response	Project change (Y / N)
NFOWFS3_053_001_140723	Dear Mr Harper, Proposed application by North Falls Wind Farm Limited (the Applicant) for an Order granting Development Consent for the proposed North Falls Offshore Wind Farm, which is a proposed extension to the operational Greater Gabbard Offshore Wind Farm, located off the Tendring/Essex coast. Statutory Consultation Q2 2023. Response from Essex County Council. Thank you for consulting Essex County Council (ECC) on the above. Our comments on the same have been requested by the 18 July 2023, this response meets this deadline. I would also ask you to note that, and for the purpose of clarity, this response on the consultation comes from ECC and Tendring District Council, the authorities having in place a Memorandum of Understanding to work in co- operation in submitting this response. It is also correct that Tendring Council will be make their own additional response in the form of a returned response to this consultation. ECC have seen in draft and endorse the comments as are made by Tendring in that response. North Falls (NF) comes in the form of a proposed extension of the now operational Greater Gabbard offshore wind farm. It would be located approximately 22km off the East Anglian coast in two separate seabed areas adjacent to the existing Greater Gabbard wind farm, which is currently operational. The proposals are comprehensive and include the following elements: Offshore 1. An offshore wind turbine generating station with a generating capacity of over 100 megawatts, comprising up to 72 wind turbine generators with associated foundations and a maximum tip height of 397m above sea level. It is anticipated that the "Rochdale Envelope" will be used. 2. Up to two offshore substation platforms with associated foundations.	Introduction		Essex County Council's comments reflect the stage of the Project's development. Following the submission of the PEIR, the Applicant has undertaken further consultation with Essex County Council and provided clarification on transport matters. This has included multiple ETG meetings (summarised further within Table 11 in Appendix 27.4, document reference 3.3.67).	N N

3. A network of subsea inter-array cables		
including cable protection, connecting the wind		
turbines to each other and to the offshore		
substation platforms including cable crossings.		
4. Up to four subsea export cable circuits		
including cable crossings, cable protection,		
sheet piled intertidal exit pits and trenchless		
installation works from the offshore substation		
platforms to shore, with an offshore cable route		
length of up to 57km.		
5. Scour protection, as required, for foundations		
and cables.		
Onshore		
Transition joint bays likely to be located		
between Frinton-on-Sea and Clacton-on-Seat		
to connect the offshore cables and the onshore		
cables.		
2. Up to four buried export cable circuits from		
the transition joint bays at landfall along an		
approximately 24km route to a new electrical		
substation at a location subject to ongoing		
consultation near Lawford and Ardleigh,		
including cable ducts, jointing and trenchless		
installation works together with associated		
equipment, accesses, landscaping and a		
temporary construction compound. This route		
passes under the A120.		
Current review of three options for		
connection to national grid and which are		
subject to this consultation are:		
Option 1: Onshore electrical connection at a		
connection point within Tendring, Essex, with a		
project alone onshore cable route and onshore		
substation infrastructure;		
 Option 2: : Onshore electrical connection at a 		
National Grid connection point within Tendring,		
Essex, sharing an onshore cable route with		
separate onshore export cables with other		
another project (such as Five Estuaries) where		
practicable, or		
Option 3: Offshore electrical connection		
supplied by a third-party electricity network		
provider. Such a connection will potentially be		
identified through the OTNR process		
Temporary construction areas and haul		
roads together with works to secure vehicular		
and/or pedestrian means of access for the		
Project.		
5. Associated and/or ancillary works including		
o. 7 650 Glated and/or anomaly works including		

archaeological and ground investigations,		
drainage works, highway improvements, works		
to alter the position of existing utilities, works to		
watercourses, landscaping and other mitigation		
and monitoring works.		
6. Such other works as may be necessary or		
expedient for the purposes of or in connection		
with the construction, operation, maintenance		
or decommissioning of the Project.		
7. If required, temporary stopping up, diversion		
or alteration of streets, roads and Public Rights		
of Way.		
8. If required, the permanent and compulsory		
acquisition of land and rights for the Project.		
If required, overriding of easements and		
other rights over or affecting land for the		
Project.		
10. If required, the application and/or		
disapplication of legislation relevant to the		
Project including inter alia legislation relating to		
compulsory acquisition.		
11. Such ancillary, incidental and consequential		
provisions, permits and consents as are		
necessary and/or convenient.		
It is stated that the Project has a generating		
capacity sufficient to provide power for up to		
400,000 dwellings, will generate in excess of		
50MW and therefore is a Nationally Significant		
Infrastructure Project under s15(3) Planning Act		
2008.		
2000.		

NFOWFS3_053_002_100723	The consultation mentions that this proposal will come together at around the same time with a separate proposal, Five Estuaries, which would also propose in its own DCO submission to extend Greater Gabbard, as an independent but linked proposal, which with come with an indicated, but not specified in detail at this time, level of co-operation between the two. Although the developments will be submitted separately, they are similar in terms of their intent, and impact, both taking landfall in Tendring before undergrounding to a substation in a position close to Lawford. At this time there has been limited but some co-operation between the two proposals, nevertheless the similarity of the proposals and location of same are distinct, hence this current proposal needs to take into account the incombination effects of the two to ensure that the impact of the same is appropriately mitigated and controlled in the interest of amenity and proper planning for the Tendring area.	Site Selection and Assessment of Alternatives		Noted.	N
NFOWFS3_053_003_100723	It is also correct that the in combinations effects of the two proposals would, in terms of for example socio economic impact, be more significant when looked at together rather than individually.	Socio- economics	Site Selection and Assessment of Alternatives	Noted.	N
NFOWFS3_053_004_100723	The proposal comes to consultation now more developed than the previous scoping submission to the Planning Inspectorate, and the later non stat consualtion which took place in Q3 & 4 2022 and for which ECC provided a consultation response in December 2022. Since that time amendments to the as proposed on land route has been developed following detailed additional engagement meetings with ECC and a variety of other stakeholders. This project is considered a Nationally Significant Infrastructure Project (NSIP) by virtue of there being a proposed an offshore generating station with a capacity greater than 100 megawatts (MW). At 300 MW, the promoter estimates this to be equivalent to the power needs of 380,000 homes. The wind farm itself will feature up to 72 turbines, each measuring up to 397 metres high, fixed to the seabed, covering a total 150	Technical Consultation	Project Description	Noted.	N

	square kilometres in area. North Falls will be located at its closest point approximately 22KM off the Tendring shore. Power from the offshore wind farm will be taken by seabed link to the Tendring coast, with this anticipated at being at a point between Clacton -on- Sea and Frinton, where a connection point will be made following a link being horizontally drilled under the sea wall/defences, before being transported underground to a substation site at a location subject to ongoing consultation close to the existing Lawford Sub Station.				
NFOWFS3_053_005_100723	On the landward side the as proposed infrastructure, substation, cable laying, and associated development will arrive at the site by vehicle. The underground link is at an anticipated distance of 24km from the sea wall to the substation at Lawford, where it will be connected to the wider grid network. The impact of much of the work will be localised and temporary, save for the substation which will remain a permanent feature. However, the Tendring peninsular is dotted with residential settlements, business premises and farms. The topography is formed largely of a flat open rural landscape dominated by arable farmland, hedgerows, trees, and watercourses, hence the impacts of the development are significant, potentially hugely injurious to the communities it would affect, and should not be underestimated.	Land Use and Agriculture	Onshore Ecology	Noted.	N
NFOWFS3_053_006_100723	The infrastructure necessary to implement the development should Consent be granted would be delivered either in part form or as whole parts to a nearby muster port and shipped to site offshore. It is anticipated that the onshore development will take approximately 3 years to complete. Up to date plans are submitted with the statutory consultation to show the extent of the on and offshore proposals and the landfall cable route. In particular this consualtion also includes a Preliminary Environmental Information Report (PEIR) which sets out the current environmental	Onshore Archaeology and Cultural Heritage		Noted.	N

	baseline, and based on the applicant's initial assessments, the Project's potential benefits and impacts, and our proposals to mitigate those impacts. The PEIR is a key part of the consultation.				
NFOWFS3_053_007_100723	The landfall site has been chosen being mindful of the existing development along the Tendring coast, with a number of alternative locations being ruled out. At this stage two potential landfall connections are proposed in the gap between the developed areas of Clacton -on-Sea and Frinton-on-Sea. Both these points avoid residential dwellings but this in itself is not short of both technical challenge nor potential for significant impact, particularly on ecology and the Holland Haven Marshes Site of Special Scientific Interest (SSSI). This part of the proposal will have to be properly considered and managed, with all impacts being mitigated and a legacy provided going forward.	Site Selection and Assessment of Alternatives		Noted.	N
NFOWFS3_053_008_100723	The onshore cable route has been refined down following the initial Scoping Submission, and again following the previous non-stat consultation. The current route is wide enough to incorporate potential change within this area but is by its nature involves a wide tract of land which is capable of variation depending on detailed land use constraints. It is at this time unknown if the cable route will be similar to that as proposed by the comparable Five Estuaries development.	Site Selection and Assessment of Alternatives	Onshore Archaeology and Cultural Heritage	Noted. The route has been further refined since that presented in PEIR, from 204m (and wider in places) down to 90m (up to 130m at complex trenchless crossings). The cable swathe required during construction is also narrower – 72m – in areas of open cut trenching, therefore allowing some room for micrositing within the 90m-wide route presented in the DCO Application. See Chapter 5 Project Description (Volume I) for further details.	Y
NFOWFS3_053_009_100723	The consultation also shows that a link to the Grid is still to be decided subject to ongoing consultation, a position as set by National Grid and as shown in the recent non statutory consultation on Norwich to Tilbury (N2T), itself a separate Nationally Strategic Infrastructure Project (NSIP). Due to this connection point, it is therefore necessary to look at, by association linked, cumulative impacts between Norwich to Tilbury and the North Falls proposal.	Need for the Project	Site Selection and Assessment of Alternatives	Cumulative effects between North Falls and Norwich to Tilbury (and other schemes) has been considered each technical chapter of this ES.	Y

NFOWFS3_053_010_100723	As a matter of public record ECC have	Need for the	Site Selection	Noted.	N
	responded raising strong objection to the	Project	and		
	Norwich to Tilbury (N2T) proposal, itself a DCO		Assessment		
	proposal that will link Norfolk to Tilbury and will		of Alternatives		
	run overground across Norfolk, Suffolk and				
	Essex, save for an area of undergrounding				
	within the Stour Valley Area of Outstanding				
	Natural Beauty (AoNB). ECC commented on				
	non-statutory consultation in 2022.				
	It is also proposed that N2T will re-consult on				
	the as proposed scheme with changes in June				
	2023, however precise details of this are not				
	known at this time, nor are the level of changes				
	as may be within the same.				
	ECC recognise that North Falls , along with				
	Five Estuaries , will both come to Lawford to				
	link up with N2T for wider distribution within the				
	network, are both actively engaged in the				
	Offshore Transmission Network Review				
	(OTNR), a government-led initiative looking at				
	the opportunities to streamline the way in which				
	offshore wind farms are able to connect to the				
	network. The trade body Renewable-UK is				
	leading the current phase of work on behalf of				
	the Department of Business, Energy and				
	Industrial Strategy ("BEIS"). The intent is for				
	Five Estuaries to work with and review the				
	outputs of the OTNR and potential for the				
	project to adopt an alternative grid solution. It				
	has also been stated that Five Estuaries and				
	North Falls together are				
	committed to exploring alternative grid				
	connections in addition to that as presented in				
	this non stat consultation.				
	However, both the Government's recent Energy				
	Security Strategy and Net Zero goals				
	demonstrate the importance of bringing new				
	offshore renewable generation of 50GW by				
	2030. Therefore, North Falls will continue to				
	develop on the basis of a radial connection for				
	which the regulatory framework exists to ensure				
	no delay in its planned grid connection date and				
	supporting the UK Governments' target.				

NFOWFS3_053_011_100723	ECC's clear preference is for a coordinated, offshore centred approach, delivered at pace, to minimise onshore infrastructure in Essex. In our response to the recent N2T non-statutory consultation, ECC concluded that National Grid Electricity Transmission (NGET) had not presented a comprehensive and conclusive set of evidence that the transmission objectives of this project cannot be met using the alternative of an offshore link or links. We reasonably concluded that with this there would clearly be significantly less harmful impacts on the terrestrial environment in Essex and the wider region as well as the numerous communities affected by N2T . ECC raised significant objection to N2T for numerous reasons, including but not limited to, it's intent to come overland into Lawford and then out of the same overland towards the north of Colchester.	Need for the Project	Site Selection and Assessment of Alternatives	NFOW is committed to exploring the potential for an offshore connection, however the feasibility of an offshore connection is subject to the outcomes of the OCSS which is expected to conclude in March 2025. Therefore, radial transmission to an onshore connection location must be included in the North Falls DCO application.	N
NFOWFS3_053_012_100723	ECC encourages North Falls to commit to its as stated intent to explore alternative solutions to provide offshore connection options other than by taking a landward route to Lawford. The benefits of this would be significant for North Falls and the Tendring peninsular, it would reduce significantly the projects own impact and the in-combination effects when considered alongside Five Estauries and negate the need for N2T to enter Tendring to provide a substation connection.	Need for the Project	Site Selection and Assessment of Alternatives	NFOW is committed to exploring the potential for an offshore connection, however the feasibility of this option is subject to the outcomes of the OCSS which is expected to conclude in March 2025. Therefore radial transmission to an onshore connection location must be included in the North Falls DCO application.	N
NFOWFS3_053_013_100723	Also, it is currently unclear as to what the impacts of North Falls would be in conjunction with Five Estuaries . These are two alike developments and whilst they would have some impact on views of the Windfarm array in combination from the Clacton coast, the main impact of the same would come in the construction of the landward side of the developments. With two connection points, cable runs, construction works, haul roads, compounds and works proposed in connection with both developments it is not possible to assess what the in-combination effects of the same would be as the consultation documents fall short of making this clear.	Site Selection and Assessment of Alternatives	Seascape, Landscape and Visual Assessment (SLVIA)	At the time of drafting the PEIR, limited information was available regarding the development of the Five Estuaries project. Since then both projects have both undertaken joint studies to identify co-located infrastructure and shared detailed project design information. A detailed CEA with Five Estuaries has been undertaken within each technical chapter of this ES.	Y

NFOWFS3_053_014_100723	ECC has long made the point that the developments as proposed on the Tendring peninsular are similar in type and extent, hence co-operation between the developments needs to be considered. The current draft National Policy Statement EN5, which is likely to be fully in place when NF is at Hearing, plays significant importance on the close co-ordination of onshore projects, in particular section 2.5 of the same which promotes co-ordination between applicants, particularly where the sensitivities of the landfall sites is sufficient, which is clearly the case with NF and the Tendring coast.	Site Selection and Assessment of Alternatives	Seascape, Landscape and Visual Assessment (SLVIA)	NFOW and VEOWL have listened to ECCs view on this matter and to the requirements of the revised EN-5, and have sought to co-ordinate where possible. Both projects have both undertaken joint studies to identify co-located infrastructure and have shared detailed project design information and project data in order to ensure co-ordination as far as possible, and to minimise effects during onshore construction.	Y
NFOWFS3_053_015_100723	As North Falls has received a connection offer from NGET at Lawford via N2T as a grid connection point, ECC considers it reasonable that at the present time North Falls have not presented evidence or assessment of alternative grid connection proposals, should N2T not be implemented as currently proposed. Until this work is completed, evidenced, and evaluated by ECC, our position on North Falls and this consultation, is one of a holding objection, due to lack of assessment of alternatives to a connection at Lawford.	Site Selection and Assessment of Alternatives		It is noted the site selection process to identify the location of the Project's grid connection is undertaken by National Grid through their Connection and Infrastructure Options Note (CION) process. NFOW have inputted into this process, but it is wholly administered by National Grid, with decisions made by National Grid alone. All the information on this pertaining to National Grid's selection of the East Anglia Connection Node (EACN) onshore substation for the location of its grid connection offer to NFOW can be found in the following documents prepared by National Grid: Design Development Report 2023 (NGET, 2023) Strategic Options Backcheck and Review 2023 (NGET, 2023a) Further details on the Project's connection to the National Grid is detailed in Section 4.5 of Chapter 4 (Site Selection and Assessment of Alternatives) This chapter sets out site selection information pertaining to the infrastructure which has been within NFOW's control and for which NFOW is seeking consent.	N

NFOWFS3_053_016_100723	As a Nationally Significant Infrastructure Project (NSIP), this proposal has the potential to significantly benefit the economy and labour market in Essex through direct investment involved in building the substation, the construction facilities necessary to support the offshore wind farms in Harwich and Bathside Bay, and for indirect economic benefits through	Socio- economics		Noted.	N
NFOWFS3_053_017_100723	local supply chains. Wind generated power is acknowledged to be a renewable source of electricity generation, and therefore this project could help in addressing the County Council's carbon reduction ambitions. ECC acknowledges the need to increase renewable energy generation, the increasing demand for new additional generation and the UK Government's legal obligation to achieve Net Zero Emissions by 2050, as supported by research and publications by the Committee for Climate Change.	Need for the Project	Climate Change	Noted.	N
NFOWFS3_053_018_100723	However, and importantly, without appropriate mitigation measures and compensation agreements, the project could significantly impact the amenity, health and wellbeing of some people in Tendring, Essex and the wider region.	Human Health		Noted.	N
NFOWFS3_053_019_100723	ECC note that post the recent Covid-19 pandemic, consultation has taken place both at in person events and online. This is welcomed as it gives interested parties a choice on how to engage. The details as viewed by the Council at both in person and online are considered both intuitive and informative.	Technical Consultation		Noted.	N
NFOWFS3_053_020_100723	In terms of project co-ordination, it is important to stress that the Five Estuaries Offshore Wind Farm proposal is mentioned, and that co-ordination with many aspects of that proposal is being or will be undertaken including stakeholder construction, infrastructure and operational plans. There are many aspects where a collaborative approach between the 2 projects would be extremely beneficial to minimise disruption/visual impact especially if they work together and at the same time in the same area, including the new project onshore	Site Selection and Assessment of Alternatives		A detailed CEA of the effects of developing both North Falls and Five Estuaries has been undertaken and is presented within each technical chapter of this ES.	N

	substation and cabling. The benefits of this are significant and the impact could potentially be lessened. However, any collaboration may represent additional harm and the impacts of this remain unproven at this time.				
NFOWFS3_053_021_100723	National Planning Policy ECC acknowledges the need to increase renewable energy generation, the increasing demand for new additional generation and the UK Government's legal obligation to achieve Net Zero Emissions by 2050, as supported by research and publications by the Committee for Climate Change. National Policy Statement (EN-1) is the overarching national policy statement for energy and was published in July 2011. This sets outs the UK Government's commitment to increasing renewable generation capacity and recognises that, in the short to medium term, much of the new capacity is likely to come from onshore and offshore wind. Essex, Suffolk and Norfolk's coast is well placed for the location of offshore wind and is known colloquially as the "Energy Coast" and has been the subject of a number of development proposals for the same over recent times. National Policy Statement (EN-3) is the UK Government's strategy for renewable energy infrastructure. This statement states that, through the Offshore Energy Strategic Environmental Assessment 2009 (SEA) process, the Government have concluded that there are no overriding environmental considerations to prevent the achievement of the planned 25GW capacity. However, this is subject to mitigation measures being implemented to prevent, reduce and offset significant adverse effects, which are relevant to the development as here proposed. National Policy Statement (EN-5) is the UK Government's strategy for electricity network infrastructure. This policy statement applies to not only transmission systems but also associated infrastructure such as substations and converter stations. This policy statement sets out the general principles that should be	Policy and Legislative Context	Need for the Project	Noted.	N

applied in the assessment of development consent application across the range of energy technologies.	
ECC is of the view that the scheme promoters should use this policy statement effectively to influence their site selection for their onshore substation in Essex.	
The Government consulted on changes to the suite of Energy National Policy Statements in 2021 (including revised versions on EN-1, EN-3 and EN-5). The revised versions of this policy	
guidance may be published later this year, before any NSIP application has been submitted and are likely to be in place when this DCO is considered. If so, the new guidance will	
need to be considered during the Examination process. However, and at the time of writing, the existing policy framework remains in place.	

NFOWFS3_053_022_100723	Essex County Council Policy The County Council, as with other Authorities in the region, has declared a climate emergency and is therefore predisposed to supporting projects that are necessary to deliver Net-Zero Carbon for the UK. The Essex Climate Action Commission was set up to advise us about tackling climate change. It was launched in May 2020 for an initial term of two years and has since been extended for a further three years. The commission will run until 2025. The initial purpose of the Essex Climate Action Commission was to set out recommendations on tackling the climate crisis. This included devising a roadmap to get Essex to net zero by 2050. These recommendations were set out in the commission's report Net Zero: Making Essex Carbon Neutral report (PDF, 5.33MB), published in July 2021. The report put forwards a comprehensive plan to: • reduce the county's greenhouse gas emissions to net zero by 2050, in line with UK statutory commitments • make Essex more resilient to climate impacts such as flooding, water shortages and overheating The recommendations of the commission were accepted in full by Essex County Council. They form the basis of our Climate Action Plan, produced in November 2021. The policy also sets out how, in principle, ECC will engage and influence other parties to ensure adverse impacts to our communities are understood and addressed by future decisions and expects to have comprehensive and effective engagement with developers and their supply chain partners to maximise the local	Climate Change	Noted.	N
	will engage and influence other parties to ensure adverse impacts to our communities are understood and addressed by future decisions and expects to have comprehensive and effective engagement with developers and their supply chain partners to maximise the local			
	business opportunity, skills aspiration, and employment benefits. Where appropriate, ECC and developers should promote synergies between projects that enhance these benefits, deliver growth, and attract inward investment. ECC will expect projects to deliver appropriate community benefit schemes in addition to the necessary compensation and mitigation, including schemes that support the decarbonisation of heat and transport, reduce			

	energy poverty, and improve the climate adaptive resilience of both the natural environment and communities.				
NFOWFS3_053_023_100723	Tendring Council Policy The Tendring Local Plan was formally adopted in January 2021 (part 1) and January 2022 (part 2) and forms the local plan by which development proposals are considered. The Plan was formally adopted in January 2021 and whilst recognising the need to promote sustainable development to allow for growth, it is equally seen as important to contribute to economic regeneration, jobs and housing growth. This has to be offset with the need to conserve and where possible enhance the historic and natural environment including landscape and habitat creation and promote net environmental gains. The area of land around Lawford and its rural farmland environment is sensitive to change and, when looked at in combination with the aforementioned developments, the impact of a quasi-industrial development of the scale as proposed would be injurious to the local area and its surroundings, when considering in combination effects. It is noted that within the	Socio- economics	Land Use and Agriculture	Noted.	N

	consultation it makes it clear that this route will be refined down with the collection of evidence to refine the same. Additional statutory consultation will take place after further engagement.				
NFOWFS3_053_024_100723	Response to the Preliminary Environmental Impact Assessment consultation ECC, as well as other consulted Authorities affected by this proposal, has a clear preference for a coordinated approach between the different proposed offshore windfarm extension projects and multi-purpose interconnector projects within the vicinity of this project.	Site Selection and Assessment of Alternatives	Project Description	Noted.	N
NFOWFS3_053_025_100723	ECC acknowledges that North Falls have identified their project, together with the promoters of Five Estuaries , Nautilus and Eurolink, as being within the Early Opportunities workstream of the Offshore Transmission Network Review, and that there are ongoing discussions between these parties and National Grid Electricity Transmission (NGET), under the auspices of the Department for Business, Energy and Industrial Strategy and Renewables UK. However, it is considered, and on balance, that the developers of these separate projects have not presented a comprehensive and conclusive set of evidence that the transmission objectives of this project cannot be met using alternative link(s) to reduce the impact of onshore infrastructure on the terrestrial environment in Essex or Suffolk. If an alternative offshore solution with reduced impacts was to be delivered, in a timely manner, without risking wider Net Zero and decarbonisation targets, it would be welcomed by the County Council. Such a proposal would negate the need for this project to landfall in Tendring, to access a length of undisturbed land, and remove the	Site Selection and Assessment of Alternatives	Need for the Project	Noted.	N

	requirement to provide an on-land substation, as is here proposed in one of two locations.				
NFOWFS3_053_026_100723	As is mentioned earlier in this response ECC has separately made strong objections to the recent N2T DCO project on the basis that it does not adequality demonstrate why greater offshore co-ordination would not be feasible, which would avoid or significantly reduce the need for that project and the connection to North Falls at or around Lawford	Site Selection and Assessment of Alternatives		Noted.	N
NFOWFS3_053_027_100723	It is also noted that whilst the landward development rests in Essex, the socio-economic and highway impacts of that inshore development are more widely spread and will also affect the local road network and communities within the wider region. Hence whilst it is correct to respond to this consultation on its merits it is also necessary to comment on in combination effects.	Socio- economics	Traffic and Transport	Socio-economic effects are assessed in Chapter 31 (Socio-Economic). Effects in combination with traffic and transport are considered as part of the assessment. Section 27.3.1 of the ES (Chapter 27 Traffic and Transport (Volume I)) details the extents of the TTSA and that the TTSA has been agreed with Essex County Council at a meeting on 5 September 2023.	N

NFOWFS3_053_028_100723	As the consultation clearly states NGET made	Site Selection	Noted.	N
	clear its plans in Q2 2022 for N2T. Such plans	and		
	included confirmation of it seeking consent for	Assessment		
	an overhead link from Norfolk to Tilbury, apart	of Alternatives		
		of Alternatives		
	from an area within the Stour Valley AONB			
	where undergrounding is proposed, including			
	looping into Tendring to a point at Lawford and			
	providing a substation where Five Estuaries			
	would link to the Grid. This connection point has			
	been set by Grid.			
	As is mentioned above ECC has raised serious			
	objection to this proposal, part of which is of			
	particular reference to NF, in that the proposed			
	connection point would be in Lawford. There			
	are clear and demonstrable reasons why this			
	location is completely unacceptable. By NF			
	constructing its own independent substation			
	linking to the Grid connection point at Lawford it			
	would contribute to the in-combination effects.			
	NF as a project seeks consent for its own			
	substation before connection to the Grid			
	substation, this will result in the provision of			
	significantly harmful industrial type			
	infrastructure in an open, tranquil rural area			
	from the proposal as submitted, from N2T, NF			
	and FE . This means the area around Lawford,			
	where one substation already exists, could			
	result in four independent sub stations in close			
	proximity to each other.			
	The area of land around Lawford and its rural			
	farmland environment is sensitive to change			
	and, when looked at in combination with the			
	aforementioned developments, the impact of a			
	quasi-industrial development of the scale as			
	proposed would be injurious to the local area			
	and its surroundings, when taking into account			
	in combination effects. It is noted that within the			
	consultation it makes it clear that this route will			
	be refined down with the collection of evidence			
	to refine the same. Additional statutory			
	consultation will take place after further			
	engagement.			
	Also it is currently unclear as to what the			
	impacts of NF would be in conjunction with Five			
	Estuaries . These are two alike developments			
	and whilst they would have some impact on			
	views of the Windfarm array in combination			
	from the Clacton coast, the main impact of the			
	same would come in the construction of the			

	landward side of the developments. With two connection points, cable runs, construction works, haul roads, compounds and works proposed in connection with both developments it is not possible to assess what the incombination effects of the same would be as the consultation documents fall short of making this clear. ECC has long made the point that the developments as proposed on the Tendring peninsular are similar in type and extent, hence co-operation between the developments needs to be considered. The current draft National Policy Statement EN5, which is likely to be fully in place when NF is at Hearing, plays significant importance on the close co-ordination of onshore projects, in particular section 2.5 of the same which promotes co-ordination between applicants, particularly where the sensitivities of the landfall sites is sufficient, which is clearly the case with NF and the Tendring coast.				
NFOWFS3_053_029_100723	Going forward it will be necessary for NF to demonstrate how it meets the overarching principles within the current and draft EN5, something that is lacking at this time. In addition to our statutory role, ECC has a wider leadership role in protecting and promoting the interests of the county's communities, businesses and environment, all of which are of significance. We also recognise the contribution ECC makes to the unique character and quality of Essex as a place within the wider eastern region. Whilst acknowledging the Government's net zero objectives, ECC are mindful of energy security, carbon reduction and energy poverty issues related to the delivery of energy development schemes and offer this response in the context of how these issues affect the County and the wider region.	Need for the Project	Socio- economics	Noted.	N

NFOWFS3_053_030_100723	Although ECC recognises the challenge of achieving net zero as set out by Government, to meet ongoing energy security concerns, it also recognises its role in contributing to the government's climate change objectives. The NF proposal would, by means of its cumulative impact on the landward side of the proposal have a substantial, lasting and potentially seriously detrimental impacts on the residents of the local area, the landscape and environment, at its interface in Lawford in particular. ECC recognises that the impact of the cable laying operations are temporary, can be flexible to move away from historic assets, sensitive areas, areas of population and reduce ecological impacts, never the less the impact of the substation would be both significant and profound on the local area to its detriment.	Need for the Project	Onshore Ecology	Noted. The effects associated with the onshore substation have been assessed in detail within the technical chapters of this ES. Where significant effects have been predicted, mitigation has been proposed to reduce these effects as far as practicable.	N
NFOWFS3_053_031_100723	When considering the statutory consultation, ECC are of the considered view that any consultation periods last for an eight-week period. This allows for a consistent approach to be adopted and would align the project to that of the N2T proposals which set an eight-week period for comments. It is noted that the intent of this consultation was to set out in a public forum what the proposals were, and canvas for opinions on the same. However, a significant amount of background information remains to be presented and there are a number of gaps in knowledge within the consultation. Whilst these have at least in part been shared with ECC and stakeholder prior to consultation this is missing from the public facing consultation. It is expected that further adjustments to the proposals are likely to be required as greater knowledge is gained of the potential environmental impacts. As this evidence is not presented in this consultation ECC is not in a position to comments on the route choice within the submission nor on the options for substation location and the necessary details are not submitted. What follows in the following Appendixes are the comments as received covering a wide range of our statutory functions. If you require further information or clarification on any points raised in this response please	Technical Consultation		Noted. Options for the location of the onshore substation were presented within Chapter 4 Site Selection and Assessment of Alternatives of the PEIR document, which was available on the project website during statutory consultation in summer 2023.	N

	contact the case officer, their details are set out				
	contact the case officer, their details are set out below.				
NFOWFS3_053_032_100723	Appendix One Community benefits ECC notes the government's intention to consult on the delivery of community benefits from energy developments and encourage North Falls (NF) to engage with officers to provide a proactive position in respect of community benefits. ECC believe that the potential impacts and disturbance placed on local communities by the construction and operation of onshore transmission networks cannot be adequately dealt with through the planning system and it is necessary for NF to provide a voluntary Community Benefit Contribution (CBC) package to host local communities. The CBC package would recognise the role of local communities that are being asked to host nationally significant infrastructure projects that will contribute significantly to the government's commitment to Net Zero and energy security. ECC would welcome the opportunity to work with NF to establish a CBC package, which: • Provides a clear and transparent framework which formally commits to the concept of a CBC package as part of the NF project. • Addresses the inherent inconsistency between renewable and low carbon energy generation with onshore transmission network projects for host communities. • Reflects the overall scale, nature and national significance of the NF project and the particular	Technical Consultation	Socio- economics	The Applicant has on previous schemes supported the communities in which it operates and has committed to work with communities to develop its approach to supporting the local area. At this stage, the details of any community benefit package associated with the Project have not been finalised. The Applicant will engage with local people and groups prior to construction commencing to help shape how the Project can best support the community.	N

	local poods and sireumstances of the best		 	
	local needs and circumstances of the host communities. • Provides short and long-term benefits to host communities, reflecting the longevity of onshore transmission networks. Such an Environmental Improvement Fund could be used to support local initiatives including, but not limited to, the provision of community woodlands, tree and hedgerow planting, the establishment of traditional orchards and the enhancement of wildlife habitats. Local community groups, parish councils and voluntary sector organisations would be encouraged to make applications to this fund.			
NFOWFS3_053_033_100723	ECC would welcome further discussions to explore opportunities to secure benefits for the host communities arising from the development. ECC considers that, notwithstanding embedded mitigation and potential modifications to the scheme as proposed above, it is unavoidable for the development to result in serious and lasting negative residual impacts on the community and locality, including on amenity, loss/reduced quality of recreational opportunity for the community, tourism, culture and heritage, and health and wellbeing. ECC expects appropriate and robust mitigation for such residual impacts, which could, for example, include but not be limited to, funding for alternative outdoor recreational offers, access and amenity improvements, green space, cultural and heritage enhancements.	Socio- economics	Embedded mitigation relevant to socio- economics is set out within Section 31.3.2 of Chapter 31 (Socio- Economics). The assessment in Section 0 finds that there are no significant socio-economic effects and therefore no requirement for additional mitigation over and above what is detailed as embedded mitigation set out within Section 31.3.2 of Chapter 31. Potential impacts on human health are assessed in Chapter 28 (Human Health). Potential impacts on tourism are assessed in Chapter 32 (Tourism and Recreation). Potential visual impacts are assessed in Chapter 30 (Landscape and Visual Impact Assessment).	N

NFOWFS3_053_034_100723	Health and Wellbeing ECC is working in close partnership with the NHS, CCG and the Blue Light Emergency Services on all NSIPs and therefore supports the comments as are made by the same on this consultation. ECC consider it necessary that the NF project includes the submission of a detailed Construction Management Plan (CMP) to mitigate and compensate against any as proposed construction impact on health and wellbeing. The CMP should have regard to BS 5228:2009 Code of Practice of Noise and Vibration Control on Construction and Open Sites.	Human Health	An outline Code of Construction Practice (CoCP) have been submitted with the DCO application (document reference 7.13). As discussed in Section 26.3.3 of Chapter 26 (Noise and Vibration), measures to mitigate construction noise impacts will be detailed in the final CoCP, as secured by a DCO Requirement.	N
NFOWFS3_053_035_100723	It is necessary that an appropriate noise assessment is undertaken and this will need to address the construction phases of the proposal and the operational noise. Methodology of the aforementioned assessment shall be agreed once specific details of the proposal are known. A lighting assessment will also be necessary.	Noise and Vibration	Construction noise and traffic noise impacts have been assessed, as reported in Section 26.6.1 of Chapter 26 (Noise and Vibration). Operational noise impacts have been assessed, as reported in Section 26.6.2 of Chapter 26. Cumulative impacts have also been assessed, as reported in Section 26.8 of Chapter 26. Residual effects on residents are considered to be not significant.	N
NFOWFS3_053_036_100723	It is noted that the assessment of effects on healthcare services is the subject of ongoing data collection and will be addressed in full in the ES submitted with the DCO. It is welcomed that the consultation documents include a specific chapter (Chapter 28) on Health Impacts of the development.	Human Health	Effects on local onshore infrastructure and services (housing and health) are considered in Chapter 31 Socioeconomics (Volume I) and Chapter 28 Traffic and Transport (Volume I). Effects on health services are presented in Section 28.6.1.5 of Chapter 28.	N
NFOWFS3_053_037_100723	Highways and Transportation Transport Assessment: - Review of Appendix 27.1 and Accompanying Documents: North Falls Offshore (NF) Traffic flows and vehicle speeds were obtained for 24 hours a day for seven days between the 9 June 2022 and 15 June 2022. NF state that previous traffic flows were obtained for 2019 and more recent 2020 data which were discounted due to the impact from the pandemic. It is currently estimated that the earliest date that construction could commence would be 2026. To consider a worst-case scenario, a reference year for background traffic of 2026 has been	Traffic and Transport	Noted. The Trasnport Assessment (Appendix 27.1, document reference 3.3.64) includes further details of the approach to deriving baseline traffic flows.	Z

	derived. ECC normally require traffic to be assessed based on application year and 5 years post application, however, this is not a permanent site, so this will be acceptable. The report states that: 'To take account of sub-regional growth in housing and employment, a proportionate approach to forecasting future traffic growth for the 2026 reference year has been agreed with National Highways (at a meeting on the 7 July 2022). To date, Essex County Council have not provided feedback upon the approach to forecasting future year traffic flows. TEMPro 7.2c has been used'.			
NFOWFS3_053_038_100723	The use of TEMPro 7.2 is acceptable, however, Dataset af15 has been used, which has been superseded by RTF018. It appears that average weekday and average day growth factors have been provided for the whole of Essex. This scheme is in Tendring so the Tendring district growth factors would be more specific or an average of the MSOA areas that the scheme is to be located. ECC also look at the peak hour derived from traffic counts, rather than average weekday or average day figures, to assess impact on the network. ECC have derived their own growth rates for the specified periods for Tendring and this results in lower growth from 2019 to 2022 but higher growth for 2022 to 2026 than that detailed in Appendix 27.1.2, Appendix 27.1.3 tabulates the application of the growth rate to the traffic counts for Average Daily traffic flows and Average weekday traffic flows. When looking at the peak hour, this growth should be based on AM and PM growth factors for the Tendring District.	Traffic and Transport	The Trasnport Assessment (Appendix 27.1, document reference 3.3.64) includes details of the approach to forecasting these flows using growth factors from the Department for Transport Trip End Model Presentation Programme software (known as TEMPro).	N
NFOWFS3_053_039_100723	No committed development in the area has been included, it may be necessary to assess the impact of specific sites if being constructed within the same time scale.	Traffic and Transport	Section 27.8 of the ES (Chapter 27 Traffic and Transport (Volume I)) includes a detailed assessment of the potential for cumulative effects.	N
NFOWFS3_053_040_100723	There is detailed information provided in the Transport Assessment and accompanying documents which clearly demonstrates how the indicative HGV and LGV trips have been derived for the North Falls construction. This is results in a clear methodology to show how	Traffic and Transport	The Applicant has discussed this matter with Essex County Council at an ETG meeting (05 September 2023) summarised further within Table 11 in Appendix 27.4, document reference 3.3.67. During this meeting it was	N

	indicative trip generation figures have been arrived at.			confirmed that Essex County Council do not require capacity assessments. Further details are provided within		
NFOWFS3_053_041_100723	It should be noted that 'peak demand' as referred to in this document is the month in which there is peak demand for materials and employment. This is not peak demand in term of network capacity assessment.	Traffic and Transport		section 27.4.3 of the ES (Chapter 27 Traffic and Transport (Volume I)). Notwithstanding, the supporting Transport Assessment (Appendix 27.1, document reference 3.3.64) provides details of hourly traffic flows in support of this agreed approach.	N	
NFOWFS3_053_042_100723	The HGV and LGV trips have not provided at in a format to assess the impact on the highway network and to determine the junctions affected. This only demonstrates the total number of movements generated by the site and the access point to which they are assigned. The information detailed for the trip generation for the construction is in a daily format. Annual average Daily traffic flows should not be used to calculate daily flows as this is based on a 7-day average. Annual average weekday traffic flows based on a 5-day average, as presented in the document, can be used to calculate weekday flows.	Traffic and Transport				N
NFOWFS3_053_043_100723	Peak network hours are not identified of either for the local road network or the site trip generation. Hours of operation for the site are not detailed in the document and there is no indication of peak network operation for the site.	Traffic and Transport			N	
NFOWFS3_053_044_100723	All counts are link flows not junction counts, there are no junction counts. These link counts are traffic volumes but do not assess current network conditions. Therefore, no junctions have been assessed or the impact of the proposed flows on the routes identified. To understand existing network conditions and identify potential impacts caused by the development on the surrounding and wider road network is essential.	Traffic and Transport			N	
NFOWFS3_053_045_100723	Identification of the proposed traffic-related study area including any key junctions on the existing road network that may be affected by traffic generated by the development. Consideration should be given to any deficiencies in the local highway network, existing access arrangements, existing road layout, existing carriageway widths, weight restrictions and existing speed limits.	Traffic and Transport			N	

RFOWFS3_053_046_100723 Existing traffic flows into, out of, and around the site, and for the agreed junctions within the study area should be shown in traffic flow diagrams. All traffic surveys should be: Undertaken in neutral months during normal traffic flow and usage contitions In sylical weather conditions Research and tast that is no more than three years old. A description of the operation of the local network noting any junctions and links that experience congestion. Where junction modelling is to be undertaken. ECC recommends that junction models are validated and experience congestion. Where junction modelling is to be undertaken. ECC Dialy profile of HGV trips and employee trip generation will be needed to assess impact on peak hour on condros and junctions identified as being affected. There has been no condros and junctions identified as being affected. There has been no condros and junctions identified as being affected. There has been no condros and junctions identified as being affected. There has been no condros and junctions identified as being affected. There has been no condros and junctions identified as being affected. There has been no condros and junctions identified as being affected. There has been no condros and junctions identified as being affected. There has been no condros and junctions identified as being affected. There has been no condros and junctions in the first formal has been no condros and junctions identified as being affected. There has been no conditions to the promoter on compact year year. There is no breakfown of the low the daily trips will be assigned to the network over the day. There is no breakfown of the low the daily trips will be assigned to the network over the day. There is no breakfown of the low the daily first out that is possible to see how the development of the first out that is possible to see how the development and the provided to that is possible to be demonstrated as staff shift times, of which there may be more than one of the provided to
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times, then the junctions will need to be

	In addition to this, there is significant seasonality in this area with traffic increases during the holiday periods and the summer months. Annex 27.1.12 Summary of HGV and LV assignment per link details in tabular format the average and peak flows per link based on 24HR AADT and 18Hr AAWT both for the construction peak and average. However, these trips should be based on the days and hours of operation of the site and not averaged over 24 hours or 18 hours for the purposes of assigning the indicative trips to a daily profile both for staff and construction traffic. This has not been presented on flow diagram format.			
NFOWFS3_053_047_100723	It should be noted that key links such as the A133 Main Road Frating and the B1027 St John's Road have not been identified in this document. These are important local corridors and routes both for gravel extraction sites e.g., TARS, Brett, Anglian and for key routes for staff from these areas. The A133 Main Road also forms the main diversion route for HGVs as an alternative route for the weak bridge on the B1027 at Alresford that has had a 7.5 tonne weight restriction introduced on it earlier this year.	Traffic and Transport	The boundaries of the TTSA have been extended to include the A133 and B1027. Section 27.3.1 of the ES (Chapter 27 Traffic and Transport (Volume I)) details the extents of the TTSA and that the TTSA has been agreed with Essex County Council at a meeting on 5 September 2023.	Y

NFOWFS3_053_048_100723	This is also shown on the Link Based Sensitive Receptors Drawing figure number 27.5, shown below. in Volume 2. However, we have no assessment to show how these sensitive links will interact with the existing traffic conditions, whether it can be accommodated within the present infrastructure or what mitigation may be required. The existing capacity of the network has not been assessed or any key junctions. Capacity issues at Frating are important to understand due to the limited capacity on the non-dual section of the A133 between Frating and Weeley, the increases during holiday period that cause extensive queues back to the A120. This is important in terms of capacity and	Traffic and Transport	The Applicant has discussed this matter with Essex County Council at an ETG meeting (05 September 2023) summarised further within Table 11 in Appendix 27.4, document reference 3.3.67. During this meeting it was confirmed that Essex County Council do not require capacity assessments. Further details are provided within section 27.4.3 of the ES (Chapter 27 Traffic and Transport (Volume I)). Notwithstanding, the supporting Transport Assessment (Appendix 27.1, document reference 3.3.64) provides details of hourly traffic flows in support of this agreed approach.	N
NFOWFS3_053_049_100723	in respect of efficiency of construction traffic. Impact of transporting unusual loads and higher levels of HGV movements has not been detailed or how these would be accommodated on routes particularly via Clacton on the B1027 and B1032 or via Kirby Cross and Thorpe Le Soken. The report states that: 'Bulk materials such as concrete and stone aggregate would make up the majority of the total HGV trips for North Falls. A review of the potential supply chain within the TTSA area indicates that while there are several local suppliers that may meet some of the demand for North Falls, they are unlikely to meet the substantive material demands required of North Falls. It has therefore been assumed that for the purpose of a worst-case HGV assessment, HGVs have been distributed to the A120 east towards Harwich Port (100%) and the A120 west (100%) towards an origin outside the TTSA'. However, this then does not consider local routes and the impact on key junctions and specific movements e.g., St Johns Road.	Traffic and Transport	Section 27.4.3.1 of the ES (Chapter 27 Traffic and Transport (Volume I)) includes details of the approach to the consideration of abnormal loads.	N

Traffic and Transport The Applicant have discussed this matter with Essex County Council at an ETG meeting (05 September 2023). The Applicant and Essex County Council have subsequently agreed an approach to the distribution of employee traffic. The agreed approach is detailed in the Transport Assessment (Appendix 27.1, document reference 3.3.64) includes further details of distribution of employee traffic.	N

NFOWFS3_053_051_100723	It should be noted that the rented accommodation assumed to be available has not been detailed. As an observation, any long-term occupation of accommodation which is currently used by the Tourist trade may not be acceptable in terms of local policy if it were to use accommodation on 'safeguarded sites' as these are protected from alternative use that could materially harm the provision of tourist accommodation in the district. There is also no guarantee that this will be available, currently there are significant numbers of asylum seekers housed in hotels in both Colchester and Ipswich meaning that this accommodation is not available. Accommodation for workers will therefore need to be considered in more detail. Highways Impact: Onshore substation access 16, vehicle routeing strategy: there are separate ongoing discussions regarding this aspect of the project, and these are at an early stage and include National Grid, the Highway Authority and National Highways and this requires further work. Temporary Construction Accesses: For each temporary construction access joining the public highway it will be necessary to demonstrate that sufficient visibility would be provided within highway and/or land under the control of the applicant. The applicant will need to provide: 1. A scale drawing showing the full extent of the visibility splays proposed. The splays should be based on the posted speed limit or the 85th percentile vehicle speed ascertained from a speed survey. Extent of highway should be coloured (see item 3 below) 2. The results of a speed survey if one is conducted to establish the required visibility 3. The results of a formal extent of highway search (including the covering letter and/or email) as sourced from hiips://www.essexhighways.org/transport-androads/highway-schemes-and-developments/adoptions-and-land/highway-atture again (any proposed).	Traffic and Transport	Section 31.5 of ES Chapter 31 Socio- economics analyses the availability of a range of residential accommodation types, including private rented and owner occupied accommodation. This focuses on availability within a 45 minute drive time of the development site. Following the ETG, ECC confirmed that 'safeguarded sites' should be substituted with 'retained sites' and noted Policy PP 9 of Tendring District Local Plan. This policy is considered in further detail within Chapter 32 Tourism and Recreation. Chapter 31 Socio-Economics analyses the availability of a range of residential accommodation types, including private rented and owner occupied. This focuses on availability within a 45 minute drive time of the development site, more detail on the study area is provided within Section 32.3.1 of Chapter 32. Following the ETG ECC confirmed that 'safeguarded sites' should be substituted with 'retained sites' and noted Policy PP 9 of Tendring District Local Plan. This has been considered within Section 32.4.1.2 of Chapter 32. It should be noted that the demand for accommodation resulting from North Falls will be modest, and it is expected that there will be sufficient capacity in visitor accommodation, even in peak periods. The Transport Assessment (Appendix 27.1, document reference 3.3.64) submitted with the DCO application includes details of the outline access	N
	status-enquiries.aspx (any problems with online payment/filling in the form the applicant should		designs (detailing visibility splays, measured speeds, highway boundary	
	email highway.status@essexhighways.org who process the requests)*		and signage) and copies of a Stage 1 Road Safety Audit.	

- 4. A stage 1 Road Safety Audit shall be provided for each access.
- 5. Any temporary traffic management and/or temporary construction access signage on the approach shall be submitted on a separate drawing.

*Where there is a roadside ditch or pond, that ditch or pond (even if it has been piped or infilled) would not in the majority of circumstances form part of the highway. Often, roadside ditches, which are apparent on the ground are not indicated on the Ordnance Survey Mapping. The same applies to historic ditches. Therefore, any ditches (including historical) and ponds should also be marked on the drawing.

Abnormal indivisible loads (AIL): It is noted from information in Table 3.30 that an assessment of the suitability of access routes to accommodate abnormal loads will be undertaken. This assessment should consider the worst-case number of abnormal loads and types of vehicles required. The outcome of this assessment should be reported in the local Highway Authority (HA), together with confirmation of any measures required to mitigate significant adverse effects arising from these movements, it would be necessary pick up any structures along a designated route, possibly low structures/ routes with weight/ width restrictions in advance. The Applicant should also explore alternative options to minimise the impact these movements will have on the local highway network. Ideally, these movements should be restricted to the Strategic Route network within the County's Route Hierarchy.

Key Construction Routes: It is noted that in Chapter 27 Traffic and Transport report, any existing highway safety issues on designated construction routes will be discussed with Essex County Council to understand if, the HA have planned improvement works which may help to address inherent highway safety issues at

key junctions, direct mitigation may be required in the form of a S278 Agreement or Minor Works Authorisation as a result of the significant uplift in vehicle movements as a result of this project at specific sites identified prior to commencement of these works.

Section 27.4.3.1 of the ES (Chapter 27 Traffic and Transport (Volume I)) includes details of the approach to the consideration of abnormal loads.

Section 27.6.1.4 of the ES (Chapter 27 Traffic and Transport (Volume I)) provides a detailed assessment of the highway safety effects of North Falls and also includes details of conversations with Essex County Council's Road Safety Team in regard to potential mitigation measures.

Following the publication of the PEIR access via these roads has been discounted. The supporting Transport Assessment (Appendix 27.1, document reference 3.3.64) provides details of proposed access strategy to avoid traffic travelling via these roads.

An OCTMP (Application ref: 7.16) is submitted with the DCO application. The OCTMP includes outline travel plan measures, which would be developed further in consultation with Essex County Council and National Highways prior to the commencement of the Project.

The OCTMP (Application ref: 7.16) outlines that all highway works would be delivered using a Section 278 agreement and Street Works would use the Essex Permitting Scheme (unless agreed otherwise with Essex County Council).

Minor Road Network: Under 27.8.3 Assessment		
of cumulative effects in the Traffic and		
Transport it is noted that there is a requirement		
to use Parsonage Lane and Wolves Hall Lane		
east of the B1035 (Tendring Green), Stones		
Green Road and Tendring Road (Tendring		
Green) plus Little Clacton Road these roads are		
not suitable to cater for a significant uplift in		
two-way vehicle movements, HGVs, in		
particular, as identified in the report. For		
example, Parsonage Lane is a narrow lane, no		
footways and is predominately a residential		
road serving several properties. Is there scope		
to use an internal haul road accessed via		
another temporary construction access point?		
The Highway Authority have not been able to		
undertake site visits of all roads that are		
proposed to access the works compounds and		
there are specific concerns regarding use of		
some minor routes. It is likely that if it is not		
possible to avoid use of the minor/rural road		
network by utilising internal haul roads then		
further mitigation should be investigated on		
roads where two HGVs cannot pass each by		
possible road widening or provision of passing		
bays.		
Construction Management Plan: It is noted that		
this is referred to in Chapter 27 Traffic and		
Transport report. No construction work shall		
take place, including any ground works or		
demolition, until a Construction Management		
Plan has been submitted to, and approved in		
writing by, the local planning authority. The		
approved plan shall be adhered to throughout		
the construction period. The Plan shall provide		
for but not restricted to:		
I. vehicle routing,		
II. the parking of vehicles of site operatives and		
visitors,		
III. loading and unloading of plant and		
materials,		
IV. storage of plant and materials used in		
constructing the development,		
V. wheel and underbody washing facilities.		
VI. Before and after condition survey to identify		
defects to highway in the vicinity of the access		
to the site and where necessary ensure repairs		
are undertaken at the developer expense when		
caused by developer.		
Workplace Travel Plan: It is noted that this is		

referred to in Ch	apter 27 Traffic and Transport		
report. Due to th	e scale of the project and prior		
	n of the site, the applicant shall		
submit a workpla	ice travel plan to the Local		
	ty for approval in consultation		
	ty Council. Such approved		
	be actively implemented for the		
duration of the p			
	ssessment doesn't provide any		
	able modes in the document		
	rence to car sharing and		
	ees arriving in shuttle buses.		
	cycle, bus and train links do not		
appear to have t			
	could vary depending on the		
construction site	access the employees will		
access.			
With other scher	nes I have seen minibuses		
being provided t	pick up groups of workers		
	ccommodation. Whilst I		
	this scheme covers a large		
	, I would have thought that		
	ittle bus service could work		
	Colchester Park & Ride be		
	o capacity) and reduce		
	using the local road network,		
	/further discussion regarding		
this would be we			
	obvious measure, and it is		
	is is encouraged positively by		
reducing on site	car parking and to support the		
	5 people car occupancy. Any		
	ce on the format of the plan,		
	eam can be contacted by		
	inTeam@essex.gov.uk		
	Way network: The Public Right		
	s protected by the Highways nauthorised interference with		
	on the Definitive Map of PROW		
	preach of this legislation. The		
	d ease of passage over public		
	ay/byway shall be maintained		
	ucted at all times to ensure the		
	assage of the public on the		
	way. A separate consultation		
	e planned with the PROW		
	nce the scale and number of		
	affected by the scheme are		
known.			
I he granting of	planning permission does not		

automatically allow development to commence.		
In the event of works affecting the highway,		
none shall be permitted to commence until such		
time as they have been fully agreed with this		
Authority. In the interests of highway user		
safety this may involve the applicant requesting		
a temporary closure of the definitive route using		
powers included in the aforementioned Act. All		
costs associated with this shall be borne by the		
applicant and any damage caused to the route		
shall be rectified by the applicant within the		
timescale of the closure. Normally the lead-in		
time for a temporary Traffic Regulation closure		
(TTRO) is 12 weeks but may be longer for a		
project on this scale. My main concerns are that		
where temporary diversion is required this can		
usually only occur for 6 months, I suspect the		
DCO may have additional powers in this regard,		
but I would recommend further discussion with		
the rights of way team takes place regarding		
diversions and the proposed temporary public		
rights of way management. Email:		
PROWPlanning@essexhighways.org		
General Note: All work within or affecting the		
highway is to be laid out and constructed by		
prior arrangement with and to the requirements		
and specifications of the Highway Authority; all		
details shall be agreed before the		
commencement of works.		
The applicants should be advised to contact the		
Development Management Team by email at		
development.management@essexhighways.or		
g		
Whilst the DCO provides powers in respect of		
highway works the Highway Authority would		
wish all highway works to be delivered using its		
standard S278 Highways Act 1980 process and		
would seek early agreement from North Falls		
regarding this point. Additionally, the DCO		
provides powers regarding Streetworks and		
again the Highway Authority would wish to seek		
assurance that the Essex Permitting Scheme is		
used so that Essex County Council can		
properly manage North Falls proposed		
Streetworks in addition to that of other statutory		
undertakers/Highway Authority/developers, as		
well as Section 50 (Highways Act 1980)		
licences for private apparatus under the		
highway.		
It is noted that cumulative development has		
it to noted that dufficiative development has		

ı	l h	been addressed but will be subject to further	 	
	3	assessment within the DCO submission. The		
	l a	Highway Authority obviously have concerns		
		over similar effectors schemes accurring in the		
		over similar offshore schemes occurring in the		
	10	ocal area and every effort should be made for		
	tr	the schemes to work together to reduce impact		
	a	and disruption to local communities.		

NFOWFS3_053_052_100723	Lead Local Flood Authority ECC as the LLFA have reviewed the consultation documents for the North Falls Wind Farm, further information will be required to cover drainage concerns and drainage elements onsite. It is our wish that the future consultation takes place with more information for specific areas under concern. Essex County Council as LLFA is consulted on the areas that are proposed for underground cable installation and compound construction sites. The LLFA recommends that the drainage proposal for the areas under Essex should comply with SuDS Design Guide, a link to the same being here: suds Essex Design Guide . The proposal should assess the areas susceptible to surface water flooding and requires appropriate measures to mitigate any adverse impacts during the construction phase and any implication associated with existing drainage interruption/blockage or temporary diversions.	Water Resources and Flood Risk	Details of the temporary (construction) and operational drainage strategy is described in detail in the Outline Operational Drainage Plan (document reference 7.19), which includes SuDS. Details of the drainage strategy are included in the assessment in Section 21.6.1.3, Section 21.6.1.4 and Section 21.6.2 of Chapter 21 (Water Resources and Flood Risk). The drainage strategy will be submitted as part of the DCO application.	Y
NFOWFS3_053_053_100723	Details should include any temporary works (culverts) to ordinary water courses, drainage channels for the purpose to give access to the project location. The surface water management during the construction of office, storage compounds. The proposal should enlist the required mitigation to prevent onsite/offsite flooding. Measures taken to prevent any pollutants entering surface water or ground water. Appropriate measures to deal with spills and leakages onsite. Proposal for surface runoff disposal during construction phase and from the built area's (offices, storage compounds) in accordance with SuDS Design Guide.	Water Resources and Flood Risk	Section 21.6.1.1 of Chapter 21 (Water Resources and Flood Risk) assesses the direct disturbance of surface water bodies, including trenched and temporary crossings (e.g. culverts and bailey bridges). Mitigation measures for all impacts are set out in Section 21.3.3 of Chapter 21, including measures to manage sediment, pollutants and surface water runoff. Details of the temporary and operational drainage strategy are presented in the Outline Operational Drainage Plan and summarised (where relevant) in Section 21.6.1.4 and Section 21.6.2.2 of Chapter 21.	Z
NFOWFS3_053_054_100723	Consultation with the LLFA is required to have section 23 consent for the areas where the project will have direct or indirect effect on drainage channels, or ordinary water courses	Water Resources and Flood Risk	Both projects will discuss a common approach to Section 23 consents and stakeholders will be informed once a decision has been reached.	N

NFOWFS3_053_055_100723	Green Infrastructure (GI) ECC currently provides advice on green infrastructure schemes (GI) for major developments. Whilst there are no statutory requirements for GI, the 25 Year Environment Plan and Environment Act (2021) place significant importance on protecting and enhancing GI, accessibility and biodiversity net gain. Having reviewed this statutory consultation, ECC raise the following points.	Introduction		This is addressed in the Biodiversity Net Gain Strategy (Document Reference 7.22).	N
NFOWFS3_053_056_100723	Biodiversity Net Gain (BNG) ECC welcomes the proposed minimum 10% BNG for this development as stated in Table 23.1. We also note and welcome the proposed use of the updated Biodiversity Metric 4.0 and production of a BNG Statement to accompany the DCO submission. We welcome reference to the Essex Green Infrastructure Strategy (2020) but would also highlight the need to take account of the Essex Green Infrastructure Standards (2022) which provide clear guidance on the requirements on both planning policy and planning application and processes.	Onshore Ecology		Noted.	N
NFOWFS3_053_057_100723	GI Audit and Strategy As stated in Table 23.1, we would welcome the proposed further engagement on GI to maximise opportunities for GI delivery alongside BNG through this development. Moving forward, ECC would ask for the production of a Green Infrastructure Strategy for the route, based on the Essex Green Infrastructure Strategy (2020) and Essex Green Infrastructure Standards (2022) to provide a more detailed an assessment of the ecological context of the development. The scheme should include but not be limited to: • The design of the development to deliver Biodiversity Net Gain and wider environmental net gain. This forms an important component of nature recovery networks and the wider landscape scale GI network. • A Green Infrastructure Plan outline the implementation of green infrastructure across the proposed preferred option corridor, the timescale for the implementation of each aspect and, the details of the quality standard of construction, management and maintenance that will occur.	Onshore Ecology	Technical Consultation	This is addressed in the Biodiversity Net Gain Strategy (Document Reference 7.22).	N

NFOWFS3_053_058_100723	Essex Local Nature Partnership ECC has now established a Local Nature Partnership (LNP) covering Greater Essex. The LNP contains three working groups – a community engagement group, a planning and biodiversity net gain working group and, a Local Nature Recovery Strategy (LNRS) group. The works of this group, including the upcoming LNRS, will need to be supported and acknowledged moving forward. Outline Landscape and Ecological Management Strategy (OLEMS) We welcome the proposed 10-year planting aftercare as stated in Table 23.1 and note the OLEMS will contain all ecological mitigation measures proposed within the ES (Table 23.5). However, we would also highlight that the OLEMS should include who is responsible for GI assets (including any surface water drainage system) and the maintenance activities/frequencies. We would also expect details on how management company services for the maintenance of GI assets and green spaces shall be funded and managed for the lifetime of the development to be included. This is to ensure appropriate management and maintenance arrangements and funding mechanisms are put in place to maintain high- quality value and benefits of the GI assets.	Onshore Ecology	Technical Consultation	Noted. The OLEMS (document reference 7.14) and GI Plan (document reference 3.3.39) includes details of management of GI assets.	N
NFOWFS3_053_059_100723	Climate Focus Area (CFA). The proposed development is situated within the Essex Climate Action Commission's (ECAC) recommended Climate Focus Area (CFA), which is formed of the Blackwater and Colne River catchment areas (please see Figure 1 on the following page for further details). The objective of this recommendation is for the CFA to "accelerate [climate] action and provide exemplars, for learning and innovation: adopting Sustainable Land stewardship practices: 100% by 2030 and Natural Green Infrastructure: 30% by 2030" (ECAC, 2021). Among the objectives of the CFA are to achieve net zero carbon, biodiversity net gain, improve soil health and air quality, reduce flooding and urban heat island effect, and enhance amenity, liveability and wellbeing of Essex communities. It will achieve	Water Resources and Flood Risk	Onshore Ecology	Noted. This Project will enable to provision of renewable energy to the UK electricity grid and contribute positively to the UK's progress in meeting its net zero targets, as well as furthering the objectives of the CFA to achieve net zero carbon. This is addressed in Chapter 33 Climate Change (Volume I) and in the Biodiversity Net Gain Strategy (Document Reference 7.22).	N

	this by wholesale landscape change in rural areas and urban areas and it will look to developments to contribute to these targets. Figure 1: Map of ECACs Climate Focus Area				
NFOWFS3_053_060_100723	The CFA require developments to consider the following requirements in line with meeting the requirements outlined in NPPF: a) biodiversity net gain to enhance biodiversity and the natural environment by creating Natural Green Infrastructure contributing to the CFA 30% by 2030 target and the wider Local Nature Recovery Network/Strategy. b) flood and water management, for those properties at risk of flooding to include Integrated Water Management and Natural Flood Management techniques. c) New developments to improve urban greening of our towns, and villages through the provision of street trees for example. New developments are necessary in terms of increasing greenspace creation, naturalizing existing green spaces, greening the public realm, and implementing sustainable drainage systems (SuDS). This proposed development has the opportunity through the development of an effective GI Strategy to also contribute towards meeting the CFA targets and in promoting nature recovery and habitat connectivity.	Water Resources and Flood Risk	Onshore Ecology	This is addressed in Chapter 33 Climate Change (Volume I) and in the Biodiversity Net Gain Strategy (Document Reference 7.22).	N

Onshore Ecology Geology Oceanograph y and Physical Processes	The SMP is discussed in Sections 8.5.9, 8.5.10 and 8.6.1.1 of Chapter 8 Marine Geology, Oceanography and Physical Processes. Impacts on the coast are assessed in Sections 8.6.2.9 and 8.6.3.6 of Chapter 8. Text has been changed to reflect the potential long-term policy.	N

	Management Plan (SMP) (EACT, 2010) states that the intended management along this frontage is 'hold the line' and would 'sustain and support its viability of the seaside towns and their communities, tourism and commercial activities'. This point suggests that this is the sole intent of management for this frontage, and should be corrected to specify that the intended of management in future epochs could change to include managed realignment as without doing so you are creating a false sense of security that this line will be held into the longer term. It is not clear that any scoping or potential impacts that could relate to a change of policy has been undertaken by the developer.				
NFOWFS3_053_062_100723	In 8.5.10 it is stated that trends in coastal erosion will be driven by the shoreline management plan which is currently to hold the line it should be noted that no natural processes that cause coastal erosion will be driven by a plan. Whilst it is accepted that you have referenced Essex County Council's comments relating to the SMP in this section regarding the potential for a change in policy and the need for ongoing maintenance funding (outlined in the Project Appraisal Report for the Clacton to Holland-on-Sea coast protection scheme), the potential impacts of a change in management at the landfall location or the inability to undertaken the regular and costly maintenance, on the proposed development have not been adequately addressed. It is suggested that the applicant fully considers the implications of a managed realignment on the siting of the onshoring of the cabling and associated infrastructure, as well as the access and egress for construction and any	Onshore Ecology	Marine Geology Oceanograph y and Physical Processes	Section 8.5.10 of Chapter 8 Marine Geology, Oceanography and Physical Processes has been revised and considers the implications of a managed realignment at the landfall.	Z

	ongoing maintenance. Essex Local Nature Partnership ECC has now established a Local Nature Partnership (LNP) covering Greater Essex. The LNP contains three working groups – a community engagement group, a planning and biodiversity net gain working group and, a Local Nature Recovery Strategy (LNRS) group. The works of this group, including the upcoming LNRS, will need to be supported and acknowledged moving forward.				
NFOWFS3_053_063_100723	Energy & Low Carbon ECC welcomes the support the Government's Energy Security Strategy gives for offshore wind expansion and goal of 50 GW of offshore wind production by 2030. The Essex Sector Development Strategy advocates offshore wind through recognising clean energy as a key growth area for Essex with a key role for offshore wind in that as part of the outcomes being delivered from the strategy. The ECAC report also recognises the need to embrace large-scale renewable energy installations, such as solar and wind farms. And the recommendations also include: - Essex to produce enough renewable energy within the county to meet its own needs by 2040 All large-scale renewable developments to have an element of community ownership from 2021. Everyone's Essex also supports the acceleration of growth in sustainable energy through its environment commitments. As such the proposed development will contribute to meeting the above targets and commitments for offshore wind. ECC recognises and welcomes the identified opportunities for employment, local skills development and local supply chains, but would welcome further details of community benefits of the scheme. For example, whether there is the opportunity for part-community ownership, a community benefit fund, etc.	Need for the Project	Climate Change	Noted. The Applicant welcomes the advocation of offshore wind and embracement of large-scale renewable energy installations in the ECAC report. Further details on the energy generation by the Project are described in Chapter 2 Need for the Project (Volume I), and details of the Project's ownership structure can be found in the Funding Statement (document reference: 6.4).	N

NFOWFS3_053_064_100723	We would welcome details on how Green House Gas (GHG) emissions of associated infrastructure i.e. the substation, and throughout the lifetime of the development will be minimised including embodied and operational carbon. Whilst the overall project is likely to be considered net zero due to the net positive impact of the generation of renewable energy- it is also important that emissions reduction measures are sought at each stage of the project. The aim should be for a net zero development at all stages/ within each element of infrastructure of the project and reliance on the positive impact of renewable energy production should not be relied upon to mitigate those. The potential impact on not just the UK to meet its climate GHG reduction commitments and wind energy targets, but the impact on Essex and the various commitments by ECC and its boroughs/districts should also be considered within the PEIR and future assessments/reports.	Climate Change	The Project will be seeking to minimise, where practicable, GHG emissions during construction, operation and decommissioning (including embodied carbon) through the use of best available techniques (i.e., materials, technologies and methodologies). The extent of the Project design has been reduced since PEIR stage, with the number of export cables reducing from 4 to 2, onshore substation footprint reducing from 8 ha to 6 ha, number of wind turbine generators (WTGs) reducing from 72 to a maximum of 57 and maximum turbine height reducing by 20m. Plans will seek to further minimise GHG emissions through efficient design, e.g. offshore vessel and onshore traffic management plans. A summary of mitigation measures recommended to reduce GHG emissions throughout the lifetime of the Project is provided in Sections 33.3.4 and 33.6.1 of Chapter 33 (Climate Change).	N
NFOWFS3_053_065_100723	Additionally, BEIS analysis has identified the incredible need for energy storage, in a decarbonised net zero energy system. This is due to the intermittent nature of renewable energy technologies such as offshore wind. Hence it is asked for confirmation as to the plans for the NF project also include battery storage or more innovative solutions such as green hydrogen production.	Climate Change	The Project will not include battery storage, as this has been discounted as an option. The Project will not directly generate hydrogen; however, it is anticipated that the electricity generated could end up in the electrolysis supply chain.	N

NFOWFS3_053_066_100723	Minerals and Waste Mineral Matters Safeguarding Mineral Resources The total project area is 1057 hectares, of which 346.4 hectares is designated as a Mineral Safeguarding Area (MSA) for sand and gravel. As such, the application is subject to Policy S8 of the Essex Minerals Local Plan 2014 (MLP). The MLP can be viewed on the County Council's website via the following link: hiips://www.essex.gov.uk/minerals-waste- planning-policy/minerals-local-plan Policy S8 of the MLP requires that a non-mineral proposal located within an MSA which exceeds defined thresholds must be supported by a Minerals Resource Assessment to establish the existence, or otherwise, of a mineral resource capable of having economic importance. This will ascertain whether there is an opportunity for the prior extraction of that mineral to avoid the sterilisation of the resource, as required by the National Planning Policy Framework (Paragraph 210). The NPPF requires policies that encourage the prior extraction of mineral where it is practical and environmentally feasible. The threshold set out in Policy S8 of the MLP for sand and gravel is 5ha, and the policy therefore applies if the proposed non-mineral development covers 5ha or more of land covered by a MSA designation. Policy S8 states that " Proposals which would unnecessarily sterilise mineral resources or conflict with the effective workings of permitted minerals development or Preferred Mineral site allocation shall be opposed." Where non-mineral development proposals are made which intersect with 5ha or more of sand and gravel, a Minerals Resource Assessment (MRA) is required as part of the planning application to establish the practicality and environmental feasibility of the prior extraction of mineral such that the resource is not sterilised where this can be avoided. If found to be practical and environmentally feasible, prior extraction is expected to take place ahead of sterilisation by non-mineral development.	Ground Conditions and Contamination	prediction production	retails of the mineral resources resent within the onshore project area are outlined in Table 19.10 in Chapter (Ground Conditions and ontamination) with additional detail rovided in Appendix 19.1, document reference 3.3.20). Potential impacts to entified resources during construction and operation are provided in Sections 2.6.1.4 and 19.6.2.3 of Chapter 19 respectively. Mineral Resource Assessment (Five stuaries Offshore Wind) has been completed and will be submitted as part if the DCO application and forms predix 19.2 (document reference 3.21). The Mineral Resource resessment identifies that an area of 5ha will be impacted as a result of the construction and operation of North alls and/or Five Estuaries with specific reference made to Policy S8 in predict 19.2.	N

The relationship between the sand and gravel MSA and the project area is shown in Appendix	
mortana dia projectarea le anomi in reportan	
l One.	
The scope and level of detail of a Minerals	
Resource Assessment will be influenced by the	
specific characteristics of the site's location, its	
geology, and the nature of the development	
being applied for. However, several key	
requirements can be identified which are likely	
to satisfy the MWPA that the practicality and	
environmental feasibility of prior extraction have	
been suitably assessed in the MRA. The detail	
to be provided should be in proportion to the	
nature of the proposed application. The MWPA	
welcomes early engagement to clarify the	
requirements of MRA.	
MRA Section	
Matters to Cover	
Site location, relevant boundaries, timescale for	
development	
Application area in relation to MSA/MCA	
Description of development including layout &	
phasing	
Timescale for development	
Whether there is any previous relevant site	
history – this could include previous	
consideration of site or adjacent land in	
preparation of Minerals Local Plan, any	
previous mineral assessments and market	
appraisals, boreholes, site investigations,	
technical reports and applications to the MWPA	
for extraction.	
Nature of the existing mineral resource	
Type of mineral	
Existing mineral exploration data (e.g. previous	
boreholes in area)	
Results of further intrusive investigation if	
undertaken	
Extent of mineral – depth & variability	
Overburden – depth & variability,	
overburden:mineral ratio. To be expressed as	
both actual depths and ratio of overburden to	
deposit, as well as variation across the site.	
Mineral quality – including silt %/content and	
how processing may impact on quality.	
Consideration should give given to the extent to	
which the material available on site would meet	
the specifications for construction.	
An assessment of the amount of material that	
would be sterilised (whole site area) and could	

be e	extracted (following application of any		
	uired buffer zones).		
	imated economic/market value of resource		
	ected across whole site and that which could		
	extracted.		
	nstraints impacting on the practicality of		
	eral extraction (distinct from those that		
	uld arise from the primary development)		
	ology designations,		
Land	dscape character,		
Heri	itage designations,		
	ximity to existing dwellings,		
	hways infrastructure,		
	ximal waterbodies,		
	drology,		
	d stability,		
	storation requirements,		
	ect on viability of non-minerals development		
	uding through delays and changes to		
	dform and character,		
	ities present etc.		
	nstraints should be assessed in light of the		
	that construction of the non-minerals		
deve	elopment would be taking place e.g.		
land	dscape issues are to be presented in light of		
	final landscape likely to be permanent built		
	elopment. It is held that mitigation methods		
	oloyed as part of the construction of the non-		
	erals development may also facilitate prior		
	raction at that locality.		
	ential opportunities for mineral extraction at		
loca			
	lity of site to incorporate temporary mineral		
	cessing plant,		
	ximity to existing mineral sites or processing		
plan			
	ntext of site and mineral within wider mineral		
	ource area,		
Prox	ximity to viable transport links for mineral		
	lage,		
	potential for indigenous material to be used		
	ne construction of the proposed		
	elopment, thereby reducing/removing the		
	ed for import,		
Dota	ential benefits through mineral restoration		
	land reclamation, landscape enhancement,		
	opportunities for ancillary extraction as part		
	ne primary development of the site such as		
	ndations, footings, landscaping, sustainable		
draii	inage systems,		

E	Evidence or otherwise of interested		
0	perators/local market demand.		
	Conclusion (as relevant to the findings)		
	Vhether mineral extraction at the site would be		
	ractical, based on conclusions of a competent		
	person,		
·			
	Whether prior extraction is practical at the site		
	the context of the non-mineral development,		
	aking into account the estimated value of the		
	nineral, restoration and the viability of the		
	roposed development,		
H	low the MRA has informed the proposed non-		
	nineral development,		
lf	f prior extraction is not practical, the		
jι	ustification for sterilising the mineral,		
lf .	f prior extraction is practical, how this will be		
	hased as part of, or preceding, the non-		
	nineral development,		
	Vhether prior extraction is environmentally		
	easible,		
	Whether the site has the potential to be worked		
	or mineral in the future.		
	An MRA is expected to be evidence based and		
	nformed by quantified information.		
	o ensure that a comprehensive assessment of		
	ne mineral resource at risk of sterilisation is		
	indertaken, it is recommended that:		
	Any questions regarding the scope of an MRA		
	re discussed with the MWPA as early as		
	ossible;		
	a draft borehole location plan is agreed prior		
	o commencement, and preferably as part of		
	re-application;		
	the borehole depths should be sufficient to		
	rove the depth of the safeguarded deposit;		
	borehole analysis must note the depth of the		
	vater table;		
	a non-stratified sampling technique is applied.		
A	an initial spacing of approximately 100m-150m		
С	entre to centre should be considered, with		
а	dditional locations if required to determine the		
e	extent of deposits on site; and		
•	The MRA provides documented evidence		
C	onfirming any commercial interest in working		
	ne resource at risk of sterilisation based on its		
	uality, quantity, and viability of prior extraction.		
	The MRA should be prepared using the Pan-		
	European Standard for Reporting of Exploration		
	Results, Mineral Resources and Reserves		
(1	PERC) Standard, which was revised and		

published on 23 May 2013. Any application,		
through a MRA or otherwise, is required to be		
submitted with sufficient information such that		
the issues raised through Policy S8 of the MLP		
can be appropriately considered.		
Mineral Infrastructure Matters		
With regard to Mineral Consultation Areas,		
Policy S8 of the MLP seeks to ensure that		
existing and allocated mineral sites and		
infrastructure are protected from inappropriate		
neighbouring developments that may prejudice		
their continuing efficient operation or ability to		
carry out their allocated function in the future.		
Policy S8 of the MLP defines Mineral		
Consultation Areas as extending up to 250m		
from the boundary of an infrastructure site or		
allocation for the same.		
The application site does not pass through a		
Mineral Consultation Area (MCA) and therefore,		
a Mineral Infrastructure Impact Assessment		
(MIIA) would not be required as part of a		
planning application on this site.		

NFOWFS3_053_067_100723	Waste Matters Safeguarding Waste Infrastructure Policy 2 of the WLP seeks to ensure that existing and allocated waste sites and infrastructure are protected from inappropriate neighbouring developments that may prejudice their continuing efficient operation or ability to carry out their allocated function in the future. Policy 2 defines Waste Consultation Areas as extending up to 250m from the boundary of existing or allocated waste infrastructure, unless they are Water Recycling Centres,	Ground Conditions and Contamination	A waste assessment for the construction phase of North Falls can be found in Appendix 19.3 (document reference 3.3.22)	N
	The WLP can be viewed on the County Council's website via the following link: hiips://www.essex.gov.uk/minerals-waste- planning-policy/waste-local-plan The application site does not pass through a Waste Consultation Area (WCA) and therefore, a Waste Infrastructure Impact Assessment (WIIA) is not required as part of the planning application. Appendix One – Location of Mineral Safeguarding Areas in Relation to the Project Area Map 1 – Minerals and Waste Safeguarding Screening – Full Extent of Project Area Appendix Two – Schedule of Safeguarding Designations and Safeguarded Minerals and Waste Infrastructure relevant to the Project Area Schedule of mineral designations within the project area Site Type			
	Site Name Planning Application number Further Details Mineral Safeguarding Areas Policy implications set out under 'Mineral Matters – Safeguarding Mineral Resources'. Subject to MSA designation – Policy 8 of the Essex Minerals Local Plan 2014 Sand and gravel N/A Spatial extent shown in Appendix One.			

NFOWFS3_053_068_100723	Offshore Seascape, Landscape and Visual Impact Assessment - PEIR Chapter 29: Suffolk Landscape Character Assessment - Table 29.4: - The table states, 'Estate sandlands': There are no key characteristics for this LCT in which the relationship/ influence of the sea is recognised. This LCT is not carried forward for further assessment'. There are points where the estate sandlands adjoin the coast so they should be scoped in as there will likely be a visual relationship at points with the proposed development. I note there is assessment as part of that on the AONB but this needs to be clarified in relationship to the standalone statement above Regarding the Tendring Landscape Character Assessment, specifically open estuarine/ coastal marsh; this adjoins the coast so should be scoped in as there may be likely effects. Demonstration that these are not 'significant' will be needed Regarding drained estuarine/ coastal marsh — e.g., Holland Haven, it is stated that there are 'long views over the landscape from the coastal sea wall and from Great Holland.' It is considered therefore that this visual relationship therefore should be scoped in Regarding coastal slopes 3D — e.g., Holland Coastal Slopes it is stated that 'there are no key characteristics for this LCT in which the relationship/ influence of the sea is recognised.' This character area has a visual relationship with the sea and potential impacts from the proposed development These (above) character areas should be scoped back in, their characteristics summarised - including visibility with the coast, and an assessment carried out.	Seascape, Landscape and Visual Impact Assessment	The detailed assessment in the SLVIA has sought to focus on seascape/ landscape and visual receptors likely to be subject to significant effects. Potential for significant effects on Landscape Character Types (LCT) have been reviewed in light of these comments. It has also taken account of the revised DCO application design which increases the distance between the coastal edge and the array area. Additional LCTs have only been scoped in where there is a reasonable likelihood of significant effects on landscape character. Those coastal LCTs carried forward for detailed assessment are listed in Table 29.4 of Chapter 29 (Seascape, Landscape and Visual Impact), and the assessment is presented in Section 29.6.3.2.1 of Chapter 29.	N
NFOWFS3_053_069_100723	Paragraph 59: - It is stated that 'there are no relevant local landscape designations in East Suffolk, Tendring or Thanet which require detailed assessment'. Please see the previous comments re: local landscape designations no longer being promoted at a national policy level.	Seascape, Landscape and Visual Impact Assessment	Noted.	N

NFOWFS3_053_070_100723	Table 29.14 Viewpoint assessment: - VP1 states 'Recreational users of the coastline are considered to be of medium susceptibility. The viewpoint is located in the Suffolk Coast and Heaths AONB and Suffolk Heritage Coast, indicating a higher value. On balance, taking account of the judgements of susceptibility and value, the overall sensitivity is judged to be medium-high'. - The methodology (Page 14 of PEIR Appendix 29.1 Seascape, Landscape and Visual Impact Assessment and Visualisation Methodology) states that 'People engaged in outdoor recreation including users of cycle routes, footpaths and public rights of way' are of 'High' susceptibility not 'medium'. The AONB I would judge is of 'High' value. Therefore, the overall sensitivity should be 'High'. - This should apply to all VPs in the AONB (VP1-10 and 17) in relation to outdoor recreational receptors and therefore likely increases the level of effect at each of the relevant viewpoints. At several VPs this increases the significance of effects to Major-Moderate.	Seascape, Landscape and Visual Impact Assessment		Noted.	N
NFOWFS3_053_071_100723	Mitigation: - As there are no landscape mitigation actions that can reasonably be undertaken to mitigate the potential effects of the development on the coast landscapes and users should the development go ahead, there is an argument that a substantial compensation fund should be provided to conserve, restore and enhance the landscapes affected to improve their future resilience.	Seascape, Landscape and Visual Impact Assessment		Noted.	N
NFOWFS3_053_072_100723	Cumulative effects: - The cumulative visual effects of North Falls and potential Five Estuaries projects from several viewpoints is particularly worrying especially where the inshore seascape and views currently appear unspoiled. This is particularly the case at VPs 4, 5, 6, 8,9,10 and 17. The perception of wildness along this coast risks being permanently changed in an adverse way.	Seascape, Landscape and Visual Impact Assessment	Site Selection and Assessment of Alternatives	Noted.	N

NFOWFS3_053_073_100723	Preliminary Environmental Information Report Chapter 30 Landscape and Visual Impact Assessment - It is stated that, 'Hedgerows will be replanted following construction but note that canopy Chapter 30 Landscape and Visual Impact Assessment Page 20 of 73 Parameter Mitigation measures embedded into North Falls design tree species cannot be replanted within 5m of the buried cables, which will restrict canopy tree planting for a 37m swathe during hedgerow reinstatement.' In response to this statement, it is important to know whether trees that cannot be replanted due to constraints will be planted elsewhere in the vicinity?	Landscape and Visual Impact Assessment		Noted.	N
NFOWFS3_053_074_100723	Biodiversity Net Gain - Any enhancements for biodiversity should aim to strengthen landscape character as part of that process.	Landscape and Visual Impact Assessment	Onshore Ecology	Noted.	N
NFOWFS3_053_075_100723	Paragraph 55 re: Impact on AONB - It is stated that 'the ZTV (refer to Figure 30.1.2, Volume II) identifies a small area of theoretical visibility from the southern edge of the AONB (within 2km) along Harwich Road. Intervening woodland cover and built form, including large poly tunnels to the east of Foxash Estate, will largely screen views towards the proposed substation from here.' The polytunnels could well be transitory in the current economic climate and ZTV does show theoretical visibility beyond the 2km marker, therefore it is suggested that the AONB is scoped in.	Landscape and Visual Impact Assessment		Effects on the National Landscape have been reconsidered against the current substation proposals (refer to Section 30.5.3 of Chapter 30 Landscape and Visual Impact Assessment).	N
NFOWFS3_053_076_100723	Paragraph 63 - It is stated that 'there are no footpaths across the indicative substation operational footprint.' However, there is a bridleway running along the northern boundary of the Onshore sub-station zone.	Tourism and Recreation		Noted.	N
NFOWFS3_053_077_100723	Paragraph 64 - It is stated that 'in terms of wider views, the onshore substation zone is generally flat. Hedgerows and areas of woodland will help to filter and screen middle to longer distance views.' There are areas of hedgerow and trees but there has also been an amount of loss due to Dutch elm disease in the 1980s and	Landscape and Visual Impact Assessment		Noted.	N

	agricultural intensification, therefore the remaining network cannot be relied upon to screen or substantially soften the adverse effects.			
NFOWFS3_053_078_100723	Paragraph 65 - It is stated that 'potential visual receptors (including visual receptors along the cable corridor(s))' However, the only visual impact assessment viewpoints are close to the substation zone not the cable corridor. Will the cabling works have such a small impact on the visual amenity of the cable corridor? I would suggest some indicative VPs are needed along the cabling route especially where the cable comes ashore and where it runs through more sensitive landscapes such as Holland Haven and if crossing any water bodies/systems.	Landscape and Visual Impact Assessment	Viewpoints along the onshore cable route have not been included in the LVIA. Landscape and visual impacts along the onshore cable route will only arise from construction works, which are transitory in nature and localised in extent. Effects are discussed in relation to receptor groups along the onshore cable route, but without reference to fixed viewpoints. Refer to Section 30.6.5 of Chapter 30 Landscape and Visual Impact Assessment. The onshore cable route will be reinstated following construction (hedgerows will be reinstated). The project is seeking to minimise removal of mature trees / woodland. Effects relating to smaller pieces of above ground infrastructure (link boxes) present during operation will be very localised so that no likely significant effects would occur.	N
NFOWFS3_053_079_100723	Paragraph 78 - It is stated that 'the operational lifespan of the Project is estimated to be 30 years for the purposes of the EIA. The main effects of the onshore components of the Project on landscape and visual amenity once operational will arise from the presence of the onshore substation and other above ground structures, as described in Chapter 5 Project Description (Volume I). Effects occurring during the operational phase are considered to be long-term and permanent unless otherwise stated.' Permanent effects will include the removal and non-replacement of hedgerow trees along the cable route.	Landscape and Visual Impact Assessment	Noted.	N

NFOWFS3_053_080_100723	Table 30.7 - Landscape effects on sub-station zone - ECC suggest the landscape effects from the sub-station zone are likely to be 'major' not 'moderate' as the scale and size and nature of the sub-station inserts a wholly incongruous structure into a rural landscape. This is particularly the case when looking at in combination effects with potentially 3 or 4 separate sub stations in combination within the same location	Landscape and Visual Impact Assessment	Noted.	N
NFOWFS3_053_081_100723	Table 30.8 - Landscape character effects - Regarding sensitivity - Reduced susceptibility should not be assumed for landscape character areas where landscapes are larger scale and flat. The character of this landscape is of a plateau landscape and flatness is an essential part of its character. It is also large scale because of the high quality of the soil for agricultural purposes resulting in hedgerow removal in the mid C20Th. The hedgerows are gappy and trees intermittent due to Dutch Elm Disease and arable intensification which makes this landscape more susceptible to large-scale change not less. ECC would suggest it is of medium sensitivity due to its openness It is stated that 'the magnitude of landscape change during construction for the LCA will be medium-low locally (outside the onshore substation zone and within 1km approximately – the magnitude of change within the substation zone has been considered in Table 30.7), and barely perceptible for the LCA as a whole. Effects will be short-term and localised within the LCA.' The underlined text is contradicted by the images in VP montages 2,3,4,5 and 7 which are all within 1kM of the substation zone but not directly in it. Landscape characterisation also includes visual elements and perceptions as part of criteria ECC would not judge the magnitude of change as 'medium-low' but more like 'medium – high' over an area of 1km radius. The landscape effects overall are more like 'moderate-minor'.	Landscape and Visual Impact Assessment	Noted.	N

NFOWFS3_053_082_100723	Tables 30.10- 30.14 - It is stated that 'beyond the temporary direct landscape changes arising from the construction of the onshore export cables, no further direct landscape effects on this LCA will occur. Temporary disturbance farmland and hedgerows/ field boundaries will not extend beyond the cable corridor(s), to the wider extents of the LCA'. However: o The cable construction corridors are extensive in width. o Hedgerow trees will not be replaced where they need to be removed. o The PRoW may need diversion. o The overall effects on the individual landscape character areas may not be significant but the localised impact is 'Major' and some effects are permanent i.e. loss of hedgerow trees, or long-lasting (soil compaction, ecological disturbance).	Landscape and Visual Impact Assessment	Noted.	N
NFOWFS3_053_083_100723	Paragraph 90 - It is stated that 'all operational effects associated with the onshore substation are considered to be long-term, reversible and adverse, unless stated otherwise.' It is difficult to accept that the visual impact for the substation could be considered reversible. The facility will most likely be superseded by another structure. The likelihood of the landscape returning to agricultural are vanishingly small.	Landscape and Visual Impact Assessment	Noted.	N
NFOWFS3_053_084_100723	Table 30.15 Visual Impact Assessment - Regarding VP2, VP5, VP6, and VP7 it is stated that 'recreational users of the bridleway are considered to be of medium-high susceptibility.' However, Table 1.5 in the PEIR Appendix 29.1 Seascape, Landscape and Visual Impact Assessment and Visualisation Methodology identifies that 'people engaged in outdoor recreation (including users of cycle routes footpaths and public rights of way)' are of high susceptibility, not medium-high. Table 30.23 Operational Cumulative Landscape and Visual Effects - There is considered a worrying level of predicted cumulative impacts due to East	Landscape and Visual Impact Assessment	Noted.	N

	Anadian One on (NOT) and Fine Faturaise				
	Anglian Green (N2T) and Five Estuaries projects.				
NFOWFS3_053_085_100723	Substation Location The proposed substation search area is located to the south of the Dedham Vale AONB and therefore may contribute towards its setting. For this reason, the proposed substation design and location need to be carefully considered. We also note that the landscape around Lawford and the proposed substation location is an open and exposed plateau with a low density and rural settlement pattern, therefore any changes to the landscape will undoubtedly have an adverse impact on visual amenity and landscape character. Therefore, mitigation measures and landscape enhancements must be appropriately considered to ensure these are minimised considerably.	Landscape and Visual Impact Assessment	Site Selection and Assessment of Alternatives	Noted.	N
NFOWFS3_053_086_100723	Landscape Character The scheme falls within multiple national / landscape character assessments. The LVIA (Chapter 30 of the submission) has made reference to the National Character Areas, the Tendring District Landscape Character Assessment, the Joint Babergh and Mid Suffolk District Council Landscape Guidance and the Colchester Borough Landscape Character Assessment as part of the landscape baseline. However, limited reference has been made to the Essex Landscape Character Assessment. In line with our previous comments, we would advise that the Essex Landscape Character Assessment should provide the overarching framework for the baseline study, with further reference to the Tendring Landscape Character Assessment and Landscape Character Assessment of the Essex Coast for additional local landscape characteristics and qualities. We also note that the scheme falls within the East of England Landscape Framework We would also expect localised landscape studies (1:2500 scale) to be undertaken for	Landscape and Visual Impact Assessment		Noted.	N

	P				
	areas surrounding the proposed substation to ensure the baseline and potential impacts are accurate.				
NFOWFS3_053_087_100723	Assessment of Sequential Impacts on the England Coast Path The Jaywick to Harwich stretch of the England Coast Path was approved by the Secretary of State July 2021. Work is now underway to prepare the new stretch of coast path for public use and therefore the LVIA should consider the cumulative sequential visual effects on users of the England coast path along this stretch and in turn, additional viewpoints along this stretch of coast will be necessary to ensure this assessment can be undertaken.	Landscape and Visual Impact Assessment	Tourism and Recreation	Noted.	N
NFOWFS3_053_088_100723	Trees and Hedgerows We note that hedgerows within the survey area are considered to meet the definition of important hedgerows' in relation to wildlife and landscape criteria under the Hedgerow Regulations 1997. In line with our previous comments, we would advise that both trees and hedgerows are assessed in detail: A detailed hedgerow assessment (in accordance with the Hedgerow Regulations 1997) to be undertaken to assess the value and health of the hedgerows impacted. This should account for wildlife and landscape, as well as Archaeology and History. Details of both are shown below: a. Wildlife and Landscape i. The hedgerows should be fully assessed according to a standard methodology, with their woody species recorded, as set out in the Hedgerows Regulations 1997. b. Archaeology and History i. Assessment against the criteria set out in the	Onshore Ecology	Landscape and Visual Impact Assessment	The project is seeking to minimise removal of mature trees / woodland where practicable. There is a commitment to microsite the cable trenches around mature trees where practicable to avoid the need for replacement tree planting along the onshore cable route. Hedgerows affected by the onshore cable will also be replanted. The detailed design will be informed by an arboricultural survey to be carried out post-consent, as set out in the OLEMS (document reference 7.14).	Y

	Hedgerows Regulations 1997 for archaeology and history should be based on an assessment utilising information from National Heritage List or England for information on Scheduled Ancient Monuments and the Suffolk Historic Environment Record (SHER) for nondesignated heritage assets. As per our previous comments, we would advise that an Arboricultural survey and impact assessment should be undertaken to understand the quality of trees in the study area and proposed impacts on them. The assessment should also identify any ancient woodland or veteran trees that could pose a constraint on the scheme. This assessment should be undertaken in accordance with British Standard 5837:2012 'Trees in relation to design demolition and construction — Recommendations' and should provide details on trees and shrubs to be retained and/or removed, the impact on them and any constraints.			
NFOWFS3_053_089_100723	Archaeology Historic Environment The proposed offshore windfarm is likely to have considerable impact on the historic environment and especially the archaeological deposits, both onshore and offshore. The proposed cable route/s passes through extensive areas of known archaeological deposits many recorded from aerial photographic research. To date, little archaeological fieldwork has taken place within the area of the proposed development to inform on the nature, extent and significance of the known heritage assets. The proposed cable route will run across 24km of land (with a disturbed area 60m in width) within the Tendring District and c.80km of seabed. There is a high potential for previously unidentified archaeological remains and geoarchaeological deposits to be located within the areas of the cable route and associated works.	Onshore Archaeology and Cultural Heritage	Noted. The baseline environment is presented in Section 25.5 of Chapter 25 (Onshore Archaeology and Cultural Heritage). Approximately 85% of the onshore project area has been subject to geophysical survey. Gaps in the data relate to areas where survey was not suitable or where access was not available. In addition, two phases of evaluation trenching have since been carried out at the onshore substation works area, these are summarised in Section 25.5.4 of Chapter 25 with the full reporting included in Appendices 25.10 (document reference 3.3.57) and 25.11 (document reference 3.3.58). This work has informed the assessment presented in section 25.6 of Chapter 25.	N

NFOWFS3_053_090_100723	Following consultations and discussions with the Applicant a number of desk-based reports have been completed. A walkover survey and a programme of geophysical survey(s) has been undertaken on targeted areas of the development area, both onshore and offshore. The reports submitted in relation to onshore archaeology include: • Cable Landfall Search Area: Historic Environment Desk-Based (Baseline) Assessment (25.1); • Onshore Cable Corridor(s) and onshore Substation Zone. Historic Environment Desk-Based (Baseline) Assessment (25.2); • Heritage Walkover Survey (25.5); Geoarchaeological Desk Based Assessment (25.6); • Onshore Historic Environment Gazetteers (25.7); • Archaeological Geophysical Survey Report (25.80) and; • Five Estuaries Archaeological and Geoarchaeological Monitoring of Ground Investigation Works report (25.9). Supporting documents for offshore archaeology include North falls Offshore Wind Farm and Offshore cable Corridor Archaeological Assessment of Geophysical Data (16.1) The results of the preliminary environmental information report with regard to archaeology are presented in Chapter 25: Onshore Archaeology and Cultural Heritage (Volume I and II) and, for offshore archaeology and Cultural Heritage (Volume I and II)	Onshore Archaeology and Cultural Heritage	Noted.	N
NFOWFS3_053_091_100723	The work carried out so far has provided a reasonable account of the known archaeological and geoarchaeological remains within the proposed development area. Aerial photographic assessment and geophysical survey have identified further archaeological features and sites. This includes potential prehistoric ritual and settlement evidence, Roman roads and associated activity and later activity. The geoarchaeological desk-based assessment has also identified the potential for the presence of deposits which may contain Palaeolithic archaeological and geoarchaeological evidence that would	Onshore Archaeology and Cultural Heritage	Noted.	N

	contribute to national and regional research themes and priorities due to their rarity. The geoarchaeological DBA also includes an archaeological assessment of marine geophysical data. This identifies potential for the presence of offshore submerged prehistoric landsurfaces and relict channels which may contain archaeological and palaeoenvironmental evidence.			
NFOWFS3_053_092_100723	The Phase 1 onshore geophysical survey is ongoing and therefore the information presented as part of the PEIR is incomplete. Further Phase 1 onshore geophysical survey is proposed prior to the submission of a DCO. The combination of geophysics and aerial photography allow a greater understanding of the nature and significance of any potential archaeological remains, however, these methods, by their nature, can only provide confidence in larger and long-lived archaeological features and the proportion of unidentified archaeological remains within the area could be significant. These methods are also not suitable on all soils and areas where cropmarks may not be visible due to the nature of the vegetation cover.	Onshore Archaeology and Cultural Heritage	Approximately 85% of the onshore project area has been subject to geophysical survey. Gaps in the data relate to areas where survey was not suitable or where access was not available. In addition, two phases of evaluation trenching have since been carried out at the onshore substation works area, these are summarised in Section 25.5.4 of Chapter 25 with the full reporting included in Appendices 25.10 (document reference 3.3.57) and 25.11 (document reference 3.3.58). This work has informed the assessment presented in section 25.6 of Chapter 25.	N
NFOWFS3_053_093_100723	Geophysical survey across the whole development area and a programme of targeted archaeological trial trenching has been previously recommended to be completed in advance of the DCO application to inform on the extent, complexity and significance of any archaeological deposits and to allow for appropriate consideration to be given to the impact of the scheme on the historic environment. An archaeological trial trench evaluation has recently been completed across part of the proposed substation site, the results of the which will need to be included in the DCO application. Geophysical survey across the whole development site has not been completed and is not proposed to be completed prior to the DCO application.	Onshore Archaeology and Cultural Heritage	The results of the geophysical survey undertaken to date is reported in Appendix 25.8 (document reference 3.3.55). Two phases of evaluation trenching evaluation have since been carried out at the onshore substation works area, these are summarised in Section 25.5.4 of Chapter 25 (Onshore Archaeology and Cultural Hertitage) with the full reporting included in Appendices 25.10 (document reference 3.3.57) and 25.11 (document reference 3.3.58).	N

NFOWFS3_053_094_100723	In relation to both onshore and offshore archaeology, the assessment of significance is largely based on desk-based research and non-intrusive evaluation survey, and therefore the potential adverse effect remains difficult to state with confidence. Direct effects to archaeological remains from physical damage or disturbance will be incurred within the footprint of the proposed development and associated enabling works. Any adverse impact to buried archaeological features as a result of the implementation of the project would be permanent and irreversible in nature. An assessment of effects on any heritage asset involves an understanding of the heritage significance of an asset, with regard to subsurface archaeological remains this can only be confidently achieved through intrusive investigation such as the programme of trial trenching recommended. The offshore cable corridor will run through an area of seabed that was a large swathe of dryland during the Pleistocene and early Holocene period. The potential for submerged landscapes with evidence for archaeological and geoarchaeological remains within this area is considered high, especially for Palaeolithic and Mesolithic archaeological remains. The significance of this is illustrated through the discoveries at Happisburgh and Pakefield, off the Norfolk and Suffolk coast, where the earliest evidence of hominin occupation of northern	Onshore Archaeology and Cultural Heritage	Noted (see Section 16.5.1 of Chapter 16 Offshore and Intertidal Archaeology and Cultural Heritage. Two phases of evaluation trenching have since been carried out at the onshore substation works area, these are summarised in Section 25.5.4 of Chapter 25 (Onshore Archaeology and Cultural Hertiage with the full reporting included in Appendices 25.10 (document reference 3.3.57) and 25.11 (document reference 3.3.58).	N
	evidence of hominin occupation of northern Europe (c. 900 ka to 800 ka) was found.			

NFOWFS3_053_095_100723	The Archaeological Assessment of Geophysical data (Chapter 16.1) states "The rarity of in situ prehistoric sites in offshore contexts means that, should such sites be encountered within the offshore sites, these will be of national, or possibly international interest, with significant potential to contribute to acknowledged international and national research objectives". The geophysical data for the most inshore	Onshore Archaeology and Cultural Heritage	Assessment to date has shown there are no known in situ seabed prehistory sites within the study area. The potential for such sites to exist, as indicated by the presence of palaeolandscape features is discussed in Section 16.5.1 of Chapter 16 Offshore and Intertidal Archaeology and Cultural Heritage.	N
	section of the cable route did not fully extend across the whole survey area, within the cable route corridor a number of features of palaeogeographic interest have been interpreted from geophysical data, including the location of former shore-lines and possible extension of the Thames-Medway channel.		A summary of embedded mitigation measures is detailed in the ES Section 25.3.3 of Chapter 25 (Onshore Archaeology and Cultural Heritage). Approximately 85% of the onshore project area has been subject to	
	Submerged terrestrial landscapes have high potential for associated archaeological remains and preservation of organic remains, specifically in the nearshore and intertidal zone. The assessment has identified 56 AEZs within the study area however these largely focus on the sites of wrecks and debris fields and no		geophysical survey. Gaps in the data relate to areas where survey was not suitable or where access was not available. The results are presented in Appendix 25.8 (document reference 3.3.55). The GDBA has been updated and reissued (Appendix 25.6,	
	palaeogeographic landscapes have been identified as being archaeologically sensitive at this time. At present the details of the proposed development retain a degree of flexibility within the Rochdale Envelope approach and will not		document reference 3.3.53) with the results of new data obtained from recent geoarchaeological monitoring of GI works (Appendix 25.9, document reference 3.3.56) and geoarchaeological investigations at the	
	be finalised until the detailed design phase, post consent. The primary mitigation approach, both onshore and offshore, is avoidance and therefore should entail preservation in situ of any significant archaeological remains. However, the extent, nature and significance of the archaeological remains, both onshore and		onshore substation works area (Appendix 25.12, document reference 3.3.59). Programmes of geophysical survey and intrusive evaluation will continue post consent ongoing and will inform subsequent mitigation. Scheme design has sought to aovid the	
	offshore, has not yet been fully established or identified and it is uncertain that avoidance will be a practical option given the engineering requirements of the proposed works. The Tendring District is particularly rich in		most signfincant archaeological remaisn where they were know or identified in pre-application investigation. Where disturbance cannot be avoided,	
	prehistoric ritual remains which range from single monuments to extensive cemetery areas. One example is the Scheduled Monument site at Ardleigh, which lies c.1.5km directly west of the proposed substation site, the scheduled area covers a site nearly 900m long by 600m wide and provides a good illustration of a well		significant effects upon sub-surface archaeological remains will be offset by the application of appropriate alternative mitigation measures which serve to preserve archaeological remains, where present, by record (e.g., following intrusive evaluation and	

preserved extensive prehistoric landscape within the Tendring peninsula. There is potential for further extensive archaeological sites to be present within the development area which may not be able to be avoided within the cable corridor and so would be difficult to mitigate by design.

The Applicant would be required to conclusively demonstrate that there is potential to avoid impact on any significant concentrations of archaeological remains where preservation would be the most appropriate mitigation strategy. Prior to the DCO application we would expect the results of all desk-based assessments and geophysical surveys to be combined in order to identify any concentrations of archaeology which may be difficult to avoid through design. Any areas where there is little or no opportunity to avoid these archaeologically or geoarchaeological sensitive areas through design would need to be evaluated through a programme of trial trenching/test pitting and/or borehole survey prior to the submission of the DCO to ensure that a suitable mitigation strategy, including preservation can be proposed. In addition, there may be cumulative direct effects with the Five estuaries OWF. The Five estuaries OWF is likely to follow the same cable route. It is unclear how much flexibility in design there will be, with both wind farms following similar designs, with regard to avoiding archaeological remains of high significance when no intrusive archaeological fieldwork has been undertaken. This would be of significance for any Palaeolithic sites which are rare and highly significant. At present there are also no proposals for outreach and enhanced public understanding

as part of the mitigation beyond appropriate publication of the results of archaeological investigations and archiving. It is considered there would be scope to demonstrate a commitment to delivering enhanced public understanding/benefit and legacy as part of the mitigation considering the significant size of the scheme and the interest in the heritage of the area. The details of outreach should be included within an outline Written Scheme of

subsequent excavation, where required). This is detailed in Section 25.7.

A programme of evaluation trenching and geoarchaeological evaluation is ongoing and will continue post-consent. The results will provide a better understanding of the sub-surface archaeological remains present to ensure suitable mitigation strategies can be proposed prior to the commencement of development works. Two phases of evaluation trenching have since been carried out at the Substation Zone, these are summarised in Section 25.5.4 in Chapter 25with the full reporting included in Appendices 25.10 (document reference 3.3.57) and 25.11 (document reference 3.3.58).

A summary and assessment of cumulative effects is presented in ES Chapter 25 Section 25.9.

Details of appropriate public outreach/engagement are included within the OWSI submitted with this application.

	Investigation for both onshore and offshore archaeology.			
NFOWFS3_053_096_100723	Onshore Archaeology and Cultural Heritage - Chapter 25 - Production of report on archaeological trial trenching and geoarchaeological test pits within the SSA West Area. To be submitted as an Appendix and results of geoarchaeological test pits to inform on site deposit model and geoarchaeological DBA which should be updated with any relevant information.	Onshore Archaeology and Cultural Heritage	Details of appropriate public outreach/engagement will be included within the OWSI submitted with this application. Two phases of evaluation trenching evaluation and Palaeolithic assessment have since been carried out at the Substation Zone, these are summarised in Section 25.5 of Chapter 25 (Onshore Archaeology and Cultural Heritage) with the full reporting included	N

	- Illustrative plan of archaeological evidence including geophysics, APs and HER overlaid and identification of any archaeological sensitive areas (where mitigation by design may not be possible). - Production of Outline WSI to set out approach to assessment and mitigation- This will need to include opportunities for the enhancement of heritage assets, and how the project might deliver public (heritage) benefit. The ES should aim to make clear public heritage benefits and outreach as part of planned mitigation		in Appendices 25.10 - 25.12 (document reference 3.3.57 - 3.3.59).	
NFOWFS3_053_097_100723	Five Estuaries Archaeological and Geoarchaeological Monitoring of Ground Investigation Works Report - Appendix 25.9 - Only 3 boreholes were monitored, and 2 historic borehole records used to create a stratigraphic model. This would not be considered robust enough to make conclusions across the whole scheme. The borehole records used for the geoarchaeological DBA should have been incorporated and some may have been more suitable for the creation of a deposit model The report states that the gravel deposits are deeply buried and conventional archaeological evaluation of this buried land surface is unlikely to be practical This is based on one borehole record, the geoarchaeological DBA notes that the Kesgrave gravels are present at much shallower depths across the scheme. The report needs amending to clarify this and should be updated as new information becomes available. A site deposit model across the entire scheme would be beneficial.	Onshore Archaeology and Cultural Heritage	The GDBA has been updated and reissued (Appendix 25.6, document reference 3.3.53) with the results of new data obtained from recent geoarchaeological monitoring of GI works (Appendix 25.9, document reference 3.3.56) and geoarchaeological investigations at the onshore substation works area (Appendix 25.12, document reference 3.3.59).	N

NFOWFS3_053_098_100723	Geoarchaeological Desk Based Assessment - Appendix 25.6 - The geoarchaeological DBA has presented a very high-level assessment based on existing BGS borehole data and desk-based research. It has created a basic deposit model and zoned the route into Geoarchaeological Characterisation Zones (GCZs). - This approach is considered appropriate however the interpretation is based on a limited number of borehole records and should be supplemented with purposive borehole data which includes analysis and interpretation of the sediments from the borehole cores. - Any geotechnical boreholes taken prior to DCO submission should be monitored by a geoarchaeological specialist in order to refine and update the model. - The potential for geophysical survey, Electrical Resistivity Tomography (ERT), should be explored prior to DCO submission to enable a more detailed deposit model and identify any areas which have potential to preserve early prehistoric sites. - The DBA has identified that the Kesgrave deposits lie at depths that will be impacted upon, in places, the cable trenches. The discovery and identification of any Palaeolithic and Mesolithic sites within the development	Onshore Archaeology and Cultural Heritage	Additional ground investigation works have since been completed as part of the evaluation works and can be viewed in Appendix 25.12 (document reference 3.3.59). An updated Geoarchaeological DBA incorporating these results has been produced and is presented in Appendix 25.6 (document reference 3.3.53).	N .
NFOWFS3_053_099_100723	area would be considered of high importance. Offshore Archaeology and Cultural Heritage - Chapter 16 - Commitment to avoid heritage receptors is preferable, the success of this will depend on the accuracy in the identification of Archaeological Exclusion Zones and the practicality of avoiding these by design. This information should be clearly presented in the ES to ensure there is flexibility in design to achieve the mitigation proposed Further assessment of data in areas of high archaeological/geoarchaeological significance should be carried out specifically in the nearshore/intertidal zone where in situ archaeological or palaeoenvironmental remains would be of national or international significance. These should then be assessed for inclusion as AEZ's - Any AEZs within the intertidal zone could be of	Offshore Archaeology and Cultural Heritage	The Outline Written Scheme of Investigation (WSI) (Offshore) (Document Refence: 7.11) outlines the approach to delivering mitigation measures for the Project. Table 16.3 of Chapter 16 (Offshore and Intertidal Archaeology and Cultural Heritage) the ES outlines the embedded mitigation measures which include the application of Archaeological Exclusion Zones (AEZs)_ and avoidance by micro-siting. Further assessment for areas of potential geoarchaeological interest is included as additional mitigation in Section 16.6.1.2.3 of Chapter 16 (Offshore and Intertidal Archaeology	N

	high significance and there would be potential for more traditional 'land-based' archaeological investigation techniques to be proposed to determine the nature, significance and extent in order to preserve in situ. The potential for archaeological evaluation within the intertidal zone should be explored and considered as a mitigation method in the forthcoming OWSI (Offshore) - Geophysical survey should be completed across the entire survey area. Should this not be possible any areas where geophysical survey has not been completed should be clearly identified on a plan. - Any forthcoming OWSI should include details on how information will be reported, including methods of publication, should this be appropriate. Proposals for outreach and enhanced public understanding should also be included as part of the mitigation.		and Cultural Heritage) the ES. Given the use of HDD at landfall it is anticipated that impacts to intertidal archaeology can be avoided. The Outline WSI (Offshore) (Document Refence: 7.11) details methods of reporting, publication and outreach and engagement as appropriate.	
NFOWFS3_053_100_100723	Ecology Place Services on behalf of the Joint Councils has reviewed onshore ecology and ornithology chapters of the PEIR and its appendices and figures and note that Chapter 23 will be updated in the ES once the onshore project area is further refined and the data analysis for all remaining baseline ecological surveys has been completed and reported upon. We welcome the amendments that have been made since the EIA Scoping Opinion consultation and from ongoing technical consultation via the Onshore Ecology and Ornithology Expert Topic Group (ETG). The provision of confidential reports for sensitive species is noted though we request that unredacted versions are provided to appropriate key stakeholders when the DCO application is submitted. We look forward to reviewing draft Ecological Management Plan with embedded mitigation and best practice measures and further details for the Project to deliver a minimum of 10% BNG for the onshore elements in the ES.	Onshore Ecology	Noted. This is addressed in the OLEMS (document reference 7.14) and Biodiversity Net Gain Strategy (Document Reference 7.22).	N
NFOWFS3_053_101_100723	Chapter 23 Paragraph 17 - The Conservation of Habitats and Species Regulations 2017 should have (as amended) added	Onshore Ecology	This has been addressed in Section 23.4.1.2 in Chapter 23 (Onshore Ecology).	N

NFOWFS3_053_102_100723	Paragraph 21 and Table 23.7 - References to CWS and RNR are incorrect for Essex as the correct terms are Local Wildlife Site (LoWS) and Special Roadside Verge (SRV)	Onshore Ecology	This has been amended throughout Chapter 23 (Onshore Ecology).	N
NFOWFS3_053_103_100723	Paragraphs 139, 153, 185, 289, 332, 384, 38, Tables 23.2, 23.7, 23.37, and the Glossary - All references to the Essex BAP and LBAP are not relevant as this was archived many years ago.	Onshore Ecology	These have been amended throughout this chapter. In the October ETG this comment was raised by North Falls. Natural England advised North Falls to use the National BAP list instead.	N
NFOWFS3_053_104v	Arboriculture An Arboricultural Impact Assessment (AIA) will need to be undertaken to assess the quality of the existing trees along the length of proposed cabling route. All reports and plans must comply with 'British Standard 5837:2012 Trees in relation to design demolition and construction – Recommendations' and should provide details on all existing trees and vegetation to be retained and/or removed to facilitate the scheme, outlining any Arboricultural impacts and constraints. This will identify any trees within the site that would pose a constraint to this development and if they are of sufficient quality to merit protection and/or retention. An Arboricultural Method Statement (AMS) and associated tree protection plans will be required to ensure retained vegetation is adequately protected throughout the course of the development.	Onshore Ecology	The baseline environment and impacts in relation to woodland and trees are addressed in Sections 23.5.3.4 and 23.6.1.5 of Chapter 23 (Onshore Ecology).	N
NFOWFS3_053_105_100723	Where existing trees pose a constraint or their removal is required to facilitate this development, replacement planting opportunities should be incorporated into the design through methods such as native hedgerows and SUDs schemes and should be presented with the submission of a Soft Landscaping Plan. Good species selection would allow for an enhanced provision for wildlife and bring long term ecological benefits to the area to potentially mitigate any disturbance during construction.	Onshore Ecology	This is addressed in the OLEMS (document reference 7.14)	N

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NFOWFS3_053_106_100723	The area of land chosen passes closely to residential areas and there may be trees on site that hold special cultural or personal value to the local residents. This could prove a source of contention if trees are seen to have high amenity value. Consultation with the local residents should be undertaken once the tree impacts and methods has been established.	Onshore Ecology	This is assessed in Chapter 25 Onshore Archaeology and Cultural Hertitage (Volume I) and Chapter 32 Tourism and Recreation.	N
NFOWFS3_053_107_100723	Historic Buildings Place Services on behalf of the Joint Council's have been involved in the consultation process for the selection of potential proposal sites for the North Falls Offshore Windfarm, including the location of the offshore section, the area of landfall, cable corridor and onshore substation. The selection process included the creation of a ZTV related to the location of the Onshore substation which identified a number of designated heritage assets which could potentially be affected by the development. A further site visit narrowed the selection of designated heritage assets which are likely to be affected by the construction of the onshore substation in the proposed location through the change of their wider setting.	Onshore Archaeology and Cultural Heritage	Noted.	N
NFOWFS3_053_108_100723	An initial assessment of the impact of the proposal on the setting of the heritage assets identified during the consultation process has now been submitted and would be further developed, where appropriate, once the detailed layout for the offshore section, area of landfall, cable corridor and onshore substation has been finalised.	Onshore Archaeology and Cultural Heritage	The initial selection of heritage assets for assessment has been reviewed to ensure it remains appropriate and theassessment is set out at Appendices 25.3 and 25.4 (document references 3.3.50 and 3.3.51). and summarised as section 25.5.8 of Chapter 25 (Onshore Archaeology and Cultural Heritage).	N
NFOWFS3_053_109_100723	Offshore Project section: The initial heritage assessment is only limited to the designated heritage assets which fall within a closer distance from the area of landfall. Further assessment of the assets identified in Table 1 of Appendix 25.4 would be required. The required additional turbines and offshore substations are likely to affect some of the views from Conservation Areas and heritage assets along the coastline towards the sea. The introduction of permanent offshore infrastructure has the potential to affect the significance of the identified heritage assets as a result of change in their setting. These include:	Onshore Archaeology and Cultural Heritage	An assessment of the effects to the setting of coastal heritage assets is presented in ES Chapter 16 Offshore Archaeology and Cultural Heritage Chapter25, Section 25.7.2.1. An appraisal has been carried out to respond to the Historic England (HE) and ECC request to consider a larger study area from the initial heritage assessment. This is detailed in Appendix 25.4, (document reference 3.3.51).	Z

	- Grade II Listed and Scheduled Monument Martello Tower K and associated battery south west of Walton Mere; - Grade II Listed Martello tower and brick lined moat; - Grade II Listed Martello tower adjacent to sea wall;			
NFOWFS3_053_110_100723	Martello Towers draw their significance from their architectural and historic interest as well as from their relationship with the seafront which forms part of their setting and highly contributes to the understanding of the significance of these assets and their historic function as defensive structures. As such, the introduction of the proposed offshore within the setting of the Towers would result in less than substantial harm to the significance of these designated heritage assets.	Offshore Archaeology and Cultural Heritage	Assessment of the Martello towers between Slaughden and St Osyth has considered the specific aspects of the varied settings of these heritage assets as well as seeking to better understand how views to the seaward contribute to significance (Appendix 25.4 (document reference 3.3.51).	N
NFOWFS3_053_111_100723	Due to the distance of the development from the coastline and the limited visibility, the harm to the significance of the Tower is considered at the low end than less than substantial. As the setting of Martello Tower K has been permanently changed and urbanised and there is limited intervisibility with the proposed offshore infrastructures, the impact is considered neutral.	Offshore Archaeology and Cultural Heritage	Noted. See appraisal detailed in Appendix 25.4, (document reference 3.3.51).	N
NFOWFS3_053_112_100723	- Grade II Listed Old Lifeboat House The Old Lifeboat House draws its significance from its architectural and historic interest, and its community value for its role as an important provision in the coastal town of Walton. The maritime setting, therefore, highly contributes to the significance of the building as designated heritage asset and contributes to our understanding of its historic function and relationship with the sea. As such, the introduction of the proposed offshore within the setting of the Towers would result in less than substantial harm to the significance of the Old Lifeboat House. This harm can be assessed at	Offshore Archaeology and Cultural Heritage	The assessment set out at Appendix 25.4 (document reference 3.3.51) considers the specific townscape context of this asset as well as the contribution of views to the seaward to its significance.	N

	the lower end of less than substantial due to the increased distance of the development from the designated heritage asset and the limited intervisibility of the proposed infrastructure.			
NFOWFS3_053_113_100723	Grade II Listed 40-44, The Parade - Grade II Listed Seaspan - Frinton and Walton Conservation Area; - Clacton Seafront Conservation Area. The maritime setting contributes to the significance of these designated heritage assets and enhance our appreciation and understanding of Frinton, Walton and Clacton as seaside towns. The introduction of the proposed offshore within the setting of these designated heritage assets would result in less than substantial harm. This harm can be assessed at the lower end of less than substantial due to the increased distance of the development and the limited intervisibility of the proposed infrastructure.	Offshore Archaeology and Cultural Heritage	An appraisal has been carried out to respond to the Historic England and Essex County Council request to consider is detailed in Appendix 25.4 (document reference 3.3.51).	N
NFOWFS3_053_114_100723	Grade II* Listed Church of St Mary; The church draws its significance from its architectural and historic interest. The churchyard forms its immediate setting and is mostly secluded in character, retaining a sense of isolation and seclusion despite the erosion and urbanisation of the wider setting. The development is not considered to affect the wider setting of St Mary's Church or prevent from an appreciation of its significance as an ecclesiastical building.	Offshore Archaeology and Cultural Heritage	A detailed assessment of the predicted effects on the significance of onshore heritage assets is presented in Appendix 25.3 (document reference 3.3.50).	N
NFOWFS3_053_115_100723	Onshore Section: At this stage, a high-level assessment of the predicted impacts from the onshore infrastructure on the significance of onshore heritage assets resulting from changes in their setting has been submitted. A further detailed assessment would be required once the refined layout would be finalised.	Onshore Archaeology and Cultural Heritage	A summary is provided in Section 25.5.8 of Chapter 25 Onshore Archaeology and Cultural Heritage.	N

NFOWFS3_053_116_100723	Landfall Section: The potential wider area for landfall has been allocated between Frinton on Sea and Holland on Sea and includes a portion of the Frinton and Walton Conservation Area. As no permanent above-ground building is required at landfall, the proposed development is expected to have a temporary impact on the setting of these designated heritage at Construction stage and at dismissal only.	Onshore Archaeology and Cultural Heritage	Noted.	N
NFOWFS3_053_117_100723	Onshore Cable Corridor Section: The selection process has established a wider area for the onshore cable corridor connecting the landfall site to the proposed onshore substation. As no permanent above-ground building is required following the installation of the connecting cables, the proposed development is expected to have a temporary impact on the setting of any designated heritage assets in close proximity to the building site at Construction stage and at dismissal only.	Onshore Archaeology and Cultural Heritage	A detailed assessment of the predicted effects on the significance of onshore heritage assets is presented in Appendix 25.3 (document reference 3.3.50). A summary is provided in Section 25.5.8 of Chapter 25 Onshore Archaeology and Cultural Heritage.	N
NFOWFS3_053_118_100723	Onshore Substation section - Grade II Listed Building Jennings Farm; - Grade II* Listed Building St Marys Church; These designated heritage assets draw their significance from their architectural and historic interest as well as the open agricultural landscape which forms part of their setting. The required above ground infrastructures within the offshore substation are likely to affect the views from the designated heritage asset into the wider rural landscape. The introduction of permanent offshore infrastructure has the potential to affect the significance of the identified heritage asset as a result of a change in the character of its setting, which will result in less than substantial harm to the significance of Jennings Farm. Due to distance from the site and intervening buildings and vegetation, this harm can be assessed at the lower end of less than substantial, however, a more detailed assessment would be required once the refined layout would be finalised.	Onshore Archaeology and Cultural Heritage	A detailed assessment of the predicted effects on the significance of onshore heritage assets is presented in Appendix 25.3 (document reference 3.3.50)	N

NFOWFS3_053_119_100723	Socio Economics and Skills ECC welcomes the clarification on skills and employment in the previous consultation - scoping opinion – (table 31.1) and the reference to the Outline Skills and Employment Plan that will be submitted as part of the DCO application. ECC is already deploying resources in a Tendring Future Skills Programme which will be one of our key delivery vehicles for skills activity to support workforce planning for this and other projects. Likewise, ECC is working closely with the Essex Chambers of Commerce on the Local Skills Improvement Plan (LSIP) which will provide a valuable insight into the employment and skills landscape for the County. Therefore, ECC is keen to go above and beyond the requirements of the DCO and use this project as an example of good practice – with early engagement on skills and employment and not just activity that is about meeting minimum planning requirements.	Socio- economics	An OSEP been developed as part of the DCO process. ECC has been consulted during the production of the OSEP to understand how the OSEP could draw upon local market intelligence, contribute to local priorities and build on existing activities, including the LSIP and Tendring Future Skills programme.	N
NFOWFS3_053_120_100723	ECC's skills and employment agenda is very clear. Firstly, we are keen to maximise skills and training opportunities for local residents and thereby support the workforce planning for this development. Secondly, we are also keen to maximise employment opportunities for local residents and directly support this project through the construction and operational phase. However, this project is not recruiting in isolation and we are aware of the huge skills shortage areas that businesses are reporting, including the 3-9 month lead up period to fill some existing vacancies (referenced in the PEIR). Through the Tendring Future Skills Programme, we will encourage the developer to coordinate with ECC in order to work with primary and secondary schools, local colleges and training providers, local universities, as well other voluntary groups providing information, advice and guidance, immediately. ECC will make the introductions and support the process as much as possible from the outset and well in advance of the Outline Skills and Employment Plan. Only through this early dialogue will the Outline Skills and Employment Plan reflect the reality of the challenge and interventions required.	Socio- economics	An OSEP has been developed as part of the DCO process. This includes consideration of education and training opportunities. North Falls is committed to working with local stakeholders to maximise local skills and employment benefits of the Project. The OSEP includes consideration of skills shortages. ECC has helped to support the OSEP process by helping to coordinate consultation with local education providers.	N

NFOWFS3_053_121_100723	Climate Change ECC notes the submission of details pursuant to climate change in Chapter 33 of the PIER. ECC notes the acknowledgement that the submission at 33.1.5 that: "The design of the Project is currently being developed and adaptive capacity to climate change (defined as 'the potential or ability of a system to adapt to the effects or impacts of climate change') is being incorporated into the design. At this stage of the design, there is insufficient information to undertake an assessment to determine the vulnerability and resilience of the Project to climate change. This will be considered further at the assessment stage for the Environmental Statement (ES)." ECC looks forward to the receipt of the as promised details at DCO submission. It is noted that the current proposals make reference to The Essex Climate Action Commission, which was set up to advise Essex County Council with respect to tackling climate change. The Commission published its 'Net Zero: Making Essex Carbon Neutral' report in July 2021 (Tendring District Council, 2021), which encourages large-scale renewable energy installations such as wind farms as proposed by this NSIP to be embraced in Essex. The Commission also advises that residents and businesses should be supplied with 100% renewable energy, and to see Essex produce enough renewable energy within the county to meet its own needs by 2040.	Climate Change	A CCRA has been undertaken for the ES and is presented in this chapter (see Section 33.6.2 of Chapter 33 Climate Change). The assessment evaluates the Project's adaptive capacity and describes mitigation measures which have been incorporated to ensure that the design is resilient to the projected effects of climate change. Noted. The 'Net Zero: Making Essex Carbon Neutral' (Essex Climate Action Commission, 2021) report has been reviewed and taken into consideration in this chapter (Section 33.4.1.3 of Chapter 33). Chapter 2 Need for the Project provides details of the renewable electricity anticipated to be generated by the Project.	N
NFOWFS3_053_122_100723	Tourism Tourism is a major part of the Tendring District economy providing a wide and diverse range of tourism opportunities as it makes the most of its rural seaside location which is well connected to the wider region by means of a variety of transport modes. Options include hotels, guest houses, holiday parks, camping and caravanning, attracting significant number of visitors if all age ranges in a variety of settings.	Tourism and Recreation	The existing environment, as described in Section 32.5 of Chapter 32 (Tourism and Recreation), notes the volume and value of the tourism economy in Tendring as the character and offer of tourism in the district. This includes a baseline assessment of visitor accommodation.	N
NFOWFS3_053_123_100723	One of Tendring's stated Local Plan priorities is as at Policy PP9 to PP 11 in the Adopted Tendring Local Plan and Objective 10 within the same "to work with partners to provide an	Tourism and Recreation	Policies PP 9 to PP 11 are considered within Section 32.4.1.2 of Chapter 32 (Tourism and Recreation).	N

	enhanced environment for tourism and the maritime sector and its associated services."				
NFOWFS3_053_124_100723	The Cultural, Visitor and Tourism sector encompasses a range of activities which play an important role in the District's economy. This sector is worth more than £353 million per annum to the economy and is estimated to provide 7,900 jobs across Tendring District. The majority of jobs and businesses in this sector are located in and around Clacton. Figures from the Economic Strategy 2019 show that tourism employment has grown by 35% over the last five years.	Tourism and Recreation		The existing environment, as described in Section 32.5 of Chapter 32 (Tourisma and Recreation), notes the volume and value of the tourism economy in Tendring, drawing on more recent data than is cited in the comment.	N
NFOWFS3_053_125_100723	The cumulative impacts of the entire project on the transport infrastructure, in particular any challenges around heavy plant traffic impact across the proposed routes at busy times of the year, will need to be assessed against any potential impact on access to tourism facilities within the District.	Traffic and Transport		Noted.	N
NFOWFS3_053_126_100723	Impact on tourism in the area is considered to be on two fundamental issues. The first is the impact of the development as built. Whilst the offshore array would have an impact on the coastal area it is considered unlikely that it would have an adverse effect on the enjoyment of the area from a tourism perspective given the presence of existing arrays offshore, and due to the distance of the development and its visibility from the shoreline.	Tourism and Recreation	Seascape, Landscape and Visual Impact Assessment	Noted.	N
NFOWFS3_053_127_100723	Secondly, and of more tourism impact, is the implementation of the development, if consented, on the landward side of the proposal. It is estimated that the cable connections from shore to Lawford could take 3 years to construct. During this time the area will see a significant increase in vehicle numbers, including HGV's and large abnormal road, which themselves could see significant build-up of traffic on both the affected rural highway network and routes leading thereto, which could have a significant impact on the free flow of traffic resulting in tourist seeking alternatives. Hence ECC considers that seasonal increases as a result of tourism will need to be looked at and mitigated as required to safeguard and where possible enhance the impact the	Traffic and Transport	Tourism and Recreation	Noted.	N

	development would have on the tourism sector to protect its attractiveness of the same and safeguard socio economic interests and enhance the same wherever possible.			
NFOWFS3_053_128_100723	As such it would be necessary to see a full outline of the impacts on tourism will be mitigated. The aforementioned PEIR document on Tourism and Recreation cites potential impacts on the identified sites as 'negligible'. However, and to assess the impact this development would have on this important sector, this should be monitored and further work carried out as necessary, at sites at landfall are popular destinations. The cumulative impacts of the entire project on the transport infrastructure, in particular any challenges around heavy plant traffic impact across the proposed routes at busy times of the year.	Tourism and Recreation	Noted.	Z

Consultee reference	Summary of comments	Theme/code	Theme/code	Applicant's response	Project change (Y / N)
NFOWFS3_054_001_140723	Dear Mr Harper, North Falls Offshore Wind Farm Project—Statutory Consultation under Section 42 of the Planning Act 2008. Preliminary Environmental Information Report Thank you for your letter dated 16 May 2023 consulting Historic England (HE) on the Preliminary Environmental Information Report (PEIR) stage of your application for the above project. Historic England is the Government's lead advisor on the historic environment and we are a non-departmental public body sponsored by, and reporting to the Secretary of State for Culture, Media and Sport. For the purposes of Section 42 of the Planning Act 2008 and Regulation 11 of Infrastructure Planning (Environmental Impact Assessment) Regulations 2009, we are a statutory a consultee. In addition to our responsibilities within the terrestrial landscape, the National Heritage Act (2002) enabled Historic England to assume responsibility for maritime archaeology in the English area of the UK Territorial Sea. This consultation relates to North Falls Offshore Wind Farm Ltd (North Falls) proposal to develop an offshore wind farm known as North Falls Offshore Wind Farm, with associated infrastructure. The scheme is outlined in the PEIR that accompanied your consultation letter. This project is defined as a Nationally Significant Infrastructure Project in relation to Section 15(3) of the Planning Act 2008 (as amended) (the Act). We recognise this PEIR has been informed by previous consultations, which have guided your approach to the location, site selection and the approach to the overall development. East of England's response is limited to our statutory remit for the historic environment. Our advice is given in relation to	N/A		Noted.	N

information currently available and may be subject to change as our understanding of the impact on heritage assets changes.		
may be subject to change as our understanding of the		
impact on heritage assets		
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NFOWFS3_054_002_140723	In relation to Listed Buildings, the remit for detailed comments and advice on Grade II Listed Buildings lies with the relevant Local Authority Conservation Officers. For onshore archaeology, the remit for detailed comments and advice on nondesignated archaeological remains lies with the relevant Local Authority Archaeological Advisors. Our advice, however, includes comments on the submitted documents relating to the archaeological assessments and mitigation proposals. Our advice includes comments from our regional Science	Onshore Archaeology and Cultural Heritage	Noted.	N
	Our advice includes comments from our regional Science Advisor and includes suggestions of further detail we would expect to see presented in the Archaeological Mitigation Strategy.			

NFOWFS3_054_003_140723	Project Summary	Site Selection	Onshore	Noted.	N
1 01.1. 00_001_000_110720	North Falls is a proposed extension project to the	and	Archaeology	1.0.00.	, ,
	operational Greater Gabbard	Assessment of	and Cultural		
	Offshore Wind Farm (OWF) off the coast of Suffolk. The	Alternatives	Heritage		
	new wind farm would include	Alternatives	Tientage		
	up to 72 offshore wind turbines split into two arrays.				
	The array areas would be located approximately 22km off				
	the coast of Suffolk.				
	The wind turbines would have a rotor diameter of up to				
	337m. The design envelope				
	has set a maximum and, where relevant, a minimum				
	realistic worst-case scenario				
	against which environmental effects can be assessed.				
	The offshore WTGs would be connected via subsea cables				
	to up to two Offshore				
	Substation Platforms (OSPs). These would transform the				
	voltage and transmit the				
	power generated via further subsea cables within the				
	offshore export cable corridor				
	to a landfall location between Clacton-on-Sea and Frinton-				
	on-Sea on the Essex				
	coast.				
	Connection to the National Grid would be at a new National				
	Grid East Anglia				
	Connection Node (EACN) 400kV substation within				
	Tendring, Essex. The location for				
	the proposed National Grid connection point is still being				
	considered at this stage and				
	would be subject to a separate consent process.				
	The precise location of the onshore substation and grid				
	connection is subject to				
	ongoing consultation and would be located in the onshore				
	substation zone.				
	East of England				
	3				
	At this stage the following have been identified:				
	Onshore cable corridor(s), comprising at least 204m wide				
	(up to 243m wide)				
	broad corridors in which the onshore export cables would be located:				
	, and the second				
	Onshore substation zone, comprising an approximately 60ha zone within				
	which the Project's onshore substation would be located.				
	The onshore cable corridor would be up to 24km from				
	landfall to the proposed new				
	onshore substation. The primary cable installation method				
	would be open cut				
	trenching. The maximum design parameters taken into				
	consideration for the onshore				

export cable route were:			
Proposed onshore cable route con-	struction width in areas		
of open cut			
trenching – 60m;			
Proposed onshore cable route con-	struction width of		
'trenchless' crossings			
– up to 122m.			
The proposed landfall installation me	thod would be by		
Horizontal Directional Drilling	ariod would be by		
(HDD). The permanent land take for	oach transition joint		
bay (per bay) would be 4 x	each transition joint		
	very landfall		
15m. A maximum 100 x 200m tempo	nary lanulan		
construction compound for up to	uirod		
four transition joint bays may be requ			
It is estimated there will be up to sev	en cable construction		
compounds, with a	050		
maximum compound footprint of 150			
The maximum onshore substation pl	atform footprint would		
be 267 x 300m. The			
maximum onshore substation equipr	nent height would be		
18m.			
We note and welcome that North Fa	Is is reviewing the		
sharing an onshore cable			
route (but with separate onshore exp	ort cables) and/or co-		
locating separate project			
onshore substation infrastructure, when the substation infrastructure is the substation infrastructure.			
We also note that North Falls is review	wing an offshore		
electrical connection, supplied			
by a third party electricity distribution	network provider.		

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NFOWFS3_054_004_140723	Historic England's Advice	Marine	A commitment to the	N
	(comments in relation to the PEIR by chapter and/or annex)	Geology	development of the	
	Comments in relation to Marine Geology, Oceanography	Oceanography	preliminary deposit	
	and Physical Processes	and Physical	model,	
	(Volume 1, Chapter 8)	Processes	through the assessment	
	(Document Reference 004447048-03)		of geotechnical and	
	East of England		geophysical data post-	
	4		consent, is captured in	
	We note the data to inform the PEIR was based on		the Outline WSI	
	available grey literature		(Offshore) (Document	
	associated with various developments together with		Refence:	
	geophysical data and survey		EN010119/APP/7.11)	
	reports produced by the Galloper and Greater Gabbard			
	OWF projects (Sections 8.1			
	and 8.4.2.2).			
	Section 8.5.2 and Table 8.12 describes the offshore			
	geology, identifying three main			
	units, which from an archaeological perspective include:			
	Holocene: i.e. surficial sediments comprising reworked modern Holocene			
	(Recent) and early Holocene (Section 8.5.2.1, para. 62) • Pleistocene: comprising a 'variety of channel complexes			
	of varying sizes,			
	incising through London Clay Formation and Harwich			
	Formation' (Section			
	8.5.2.1, para. 61 and Plate 8.3).			
	We note these units are also identified within the offshore			
	ECC, as described in			
	Section 8.5.2.2. It is, therefore, recommended that any			
	Outline (Offshore) WSI			
	included within the DCO application should focus on the			
	use of this information to			
	produce a deposit model as a viable mitigation measure.			

NFOWFS3_054_005_140723	Comments in relation to Offshore Archaeology and Cultural Heritage (Volume 1, Chapter 16) (Document Reference 004447026-03) Chapter 16 considers the potential impacts of the Project on offshore archaeology and cultural heritage. It includes baseline data on the historic environment of the study area and an assessment of potential impacts and associated mitigation for the construction, operation and decommissioning phases of the Project. The chapter is supported by an Offshore Archaeology and Cultural Heritage Technical Report (Volume 2, Annex 16.1). In addition, we note Volume 2, Chapter 10: Seascape, Landscape and Visual Assessment. It is acknowledged that significant archaeological remains are present within the marine zone that need to be considered (buried archaeology, wrecks and aircraft). For example, the export cable corridor passes through the former marine aggregate license Area 447 where significant Palaeolithic and Pleistocene material was identified and recorded (Bynoe 2017 and Bynoe et al. 2022). We note within the glossary of terminology on pages 9-10 definitions are provided for the Mesolithic and Palaeolithic. It is unclear, however, why no definition is provided for the Neolithic. We would recommend this is added for the DCO application. East of England 5	Offshore Archaeology and Cultural Heritage	Noted (Neolithic added to glossary).	N
NFOWFS3_054_006_140723	We would recommend reference is also made to Bynoe et al. 2022: 'Strategic support for marine development management: Palaeolithic archaeology and landscape reconstruction':	Offshore Archaeology and Cultural Heritage	Noted (added to Table 16.7 and referenced in Section 16.8.3.1).	N

NFOWFS3_054_007_140723	Section 16.4.3.1 (Understanding cultural heritage assets) includes the statement that 'further investigation and data gathering will be progressed post-consent, including high resolution surveys, alongside additional mitigation requirements as set out in the Outline WSI (Offshore) to be submitted alongside the DCO application'. We note no draft Outline WSI (Offshore) is included within the PEIR documents. Measures to record or protect remains recorded offshore will be agreed in consultation with Historic England. Early engagement with Historic England on an Outline WSI (Offshore) would assist in its timely acceptance during any DCO examination period.	Offshore Archaeology and Cultural Heritage		The Outline WSI (Offshore) (Document Refence: EN010119/APP/7.11) has been drafted alongside the ES for submission with the DCO application.	N
NFOWFS3_054_008_140723	We welcome the statement that 'there will be archaeological input into any future sampling programmes' (Section 16.6.1.2.3). To support whether assessment is beneficial, it is essential the Applicant has access to appropriate and experienced archaeological advice.	Offshore Archaeology and Cultural Heritage		Noted (this is addressed in the Outline WSI (Offshore) (Document Refence: EN010119/APP/7.11).	N
NFOWFS3_054_009_140723	We agree with the impacts scoped in for assessment, as listed in Section 16.6.1 (construction, operations and maintenance and decommissioning) regarding direct and indirect impacts such as disturbance of sediment containing potential marine heritage receptors (material and contexts) leading to the exposure of those marine heritage receptors. We are therefore pleased to see the findings of the Marine Geology, Oceanography and Marine Processes chapter (Volume 1, Chapter 8) have been incorporated into the discussions of indirect impacts on sediments (Section 16.6.1.3).	Offshore Archaeology and Cultural Heritage	Marine Geology Oceanography and Physical Processes	Noted.	Z

NFOWFS3_054_010_140723	We note from Table 16.2 (Realistic worst case scenarios) in relation to impacts 1 and 4 that there is no worst case scenario as impacts 'will not occur due to the application of embedded mitigation'. Whilst we understand the principle behind the rationale, we consider this cannot be stated categorically until the mitigation process has been realised. This caveat should be reflected in the ES. Additionally, this table only considers the worst case scenario of the greatest area (horizontal) of seabed and shallow buried deposits impacted by the proposed infrastructure. It does not consider the greatest area (vertical) of deposits that could impacted deeply buried deposits of archaeological interest. East of England 6 It also suggested in the second part of Impact 3 that indirect impacts arising from seabed preparation and installation of foundations and cables would have a positive effect – given that there is no consideration of the negative impacts. We acknowledge that there is potential for sediment mobilisation to have positive effects but this is by no means guaranteed. This impact should be amended to consider the negative impacts also.	Offshore Archaeology and Cultural Heritage	Marine Geology Oceanography and Physical Processes	Table 16.2 has been updated to reflect these comments.	N
NFOWFS3_054_011_140723	In relation to Table 16.3 (Embedded mitigation measures) it would have been useful to include reference to a Protocol for Archaeological Discoveries (PAD).	Offshore Archaeology and Cultural Heritage		Noted (added to Table 16.3).	N
NFOWFS3_054_012_140723	Regarding the sources cited in Table 16.7 (Data and information sources), we would recommend the North Sea Prehistory Research and Management Framework (NSPRMF) is also included. This document includes a resource assessment (i.e. literature review) as well as research questions and strategies. These are directly relevant and applicable in the production of any Outline (Offshore) WSI. They should be used by this project, post-consent and precommencement (should permission be obtained). It should be noted, the NSPRMF has now been updated	Offshore Archaeology and Cultural Heritage		Noted (added to Table 16.7 and referenced in the Outline WSI (Offshore) (Document Refence: EN010119/APP/7.11).	N

	and published online as part of the UK programme for digital research frameworks:			
	https://researchframeworks.org/nsprmf/.			
NFOWFS3_054_013_140723	It is acknowledged there is high potential for the presence of a range of archaeological material which has not been seen in the geophysical data due to issues of visibility. It is noted the East area of the Northern and Southern array areas contain large sand waves with megaripples that could conceal archaeological remains of interest (Section 16.5.2.1, Paragraph 130).	Offshore Archaeology and Cultural Heritage	Noted (the offshore project area has been refined following PEIR with the removal of the northern array area and interconnector corridor).	Y
NFOWFS3_054_014_140723	We note it is acknowledged that the potential for submerged landscapes in the marine study area is high (Section 16.5.11) and significant sites are located in nearby areas (e.g. Clacton, Jaywick and Frinton). In particular, potentially well-preserved palaeogeographic features were identified within three of the four projects areas (Northern array area, Southern array area and the ECC). The investigation of these features has the potential to contribute to our understanding landscape and environmental change as well as refining the geological chronology for the region (Section 16.5.11, Paragraph 101).	Offshore Archaeology and Cultural Heritage	Noted (the offshore project area has been refined following PEIR with the removal of the northern array area and interconnector corridor).	Y
NFOWFS3_054_015_140723	We are pleased the archaeological potential of the intertidal zone is also recognised (Section 16.5.3.1). However, it is stated in paragraph 161 that no offshore geotechnical surveys are planned and will be delivered post consent (subject to permission). We consider the detail of any Outline (Offshore) WSI prepared for this project is crucial to demonstrate that mitigation measures are identified and ready to be implemented. East of England 7	Offshore Archaeology and Cultural Heritage	Geoarchaeological assessment (with objectives incorporated into the geotechnical campaigns) will be guided by the Outline WSI (Offshore) (Document Refence: EN010119/APP/7.11xxx) and survey specific method statements.	N

NFOWFS3_054_016_140723	The statement made in Section 16.6.1.2.3 (Unlocated Marine Heritage Receptors) is very important and any ES produced must adequately determine such risk and ensure viable mitigation strategies are presented and delivered within any draft Deemed Marine Licence(s) (dMLs).	Offshore Archaeology and Cultural Heritage		The approach to investigation and mitigation is set out in the Outline WSI (Offshore) (Document Refence: EN010119/APP/7.11). The requirement for a final agreed, post-consent WSI is included in the dML as follows: Schedule 8, Part 2, Condition 21; Schedule 9, Part 2, Condition 21; Schedule 10, Part 2, Condition 21.	N
NFOWFS3_054_017_140723	We note a total of 1827 seabed features have been identified to date following the marine geophysical surveys: 45 A1 anomalies of anthropogenic origin, 11 A3 anomalies of possible archaeological interest, and 1771 A2 anomalies of possible archaeological interest where the current interpretation is uncertain (Table 16.14).	Marine Geology Oceanography and Physical Processes	Offshore Archaeology and Cultural Heritage	Noted (the baseline in Section 16.5.2 has been updated following removal of the northern array area and the interconnector cable corridor).	Y
NFOWFS3_054_018_140723	In Section 16.5.1.2 we note that 16 palaeogeographic features have been identified within the northern array area and 15 in the southern array area. 44 palaeogeographic features have been identified within the ECC study area relating to complex channelling. The deposits infilling these features have the potential to preserve archaeological and organic palaeoenvironmental remains of high importance, such as channel 7065 recorded in the cable corridor (Sections 16.5.1.2 and 16.5.1.3).	Marine Geology Oceanography and Physical Processes	Offshore Archaeology and Cultural Heritage	Noted (the baseline in Section 16.5.1 has been updated following removal of the northern array area and the interconnector cable corridor).	Y

NFOWFS3_054_019_140723	In addition, areas of possible organic material were frequently seen in the geophysical surveys, which further points to the archaeological and geoarchaeological potential of the proposed development area (Section 16.5.1, para 90). A robust strategy to investigate and understand these features and deposits will therefore need to be developed. We are, therefore, pleased to see specific objectives for targeted geotechnical samples and geoarchaeological assessment have been considered (Section 16.6.1.2.3). We would expect to see these explored in more detail in any Outline (Offshore) WSI.	Marine Geology Oceanography and Physical Processes	Offshore Archaeology and Cultural Heritage	Geoarchaeological assessment (with objectives incorporated into the geotechnical campaigns) will be guided by the Outline WSI (Offshore) (Document Refence: EN010119/APP/7.11) and survey specific method statements.	N
NFOWFS3_054_020_140723	In relation to A2 anomalies, we note they have not been given AEZs but will be mitigated through micro-siting, and further investigation and mitigation if impacts cannot be avoided. In principle we have no issue with this approach, but we wish to highlight that a lot of investigation and mitigation works are proposed for postconsent. Should significant archaeological remains and deposits come to light, further investigation and mitigation would potentially be time consuming. Therefore, we recommend that the production of a postconsent Offshore WSI by an appropriate and experience archaeological contractor, collection of further data, its assessment by an appropriate and experience archaeological contractor, and submission to the regulatory authority and their advisors is done in a timely manner as set out in an accepted Outline (Offshore) WSI. This will ensure that enough time is built in to undertake these processes. East of England	Offshore Archaeology and Cultural Heritage		The approach to investigation and mitigation is set out in the Outline WSI (Offshore) (Document Refence: EN010119/APP/7.11). The requirement for a final agreed, post-consent WSI is included in the dML as follows: Schedule 8, Part 2, Condition 21; Schedule 9, Part 2, Condition 21; Schedule 10, Part 2, Condition 21.	N

NFOWFS3_054_021_140723	We note from 16.6.1.2.3 (Additional mitigation) that further archaeological assessment of high-resolution geophysical data and geoarchaeological assessment of geotechnical data will be undertaken post-application/post-consent in order to reduce, as far as possible, the potential for unintended impacts during construction. This is appropriate to mitigate impacts to potential heritage assets and should be conducted by an appropriate and experienced archaeological consultant, who should be involved in the planning stages for surveys.	Offshore Archaeology and Cultural Heritage	The approach to investigation and mitigation is set out in the Outline WSI (Offshore) (Document Refence: EN010119/APP/7.11). The requirement for a final agreed, post-consent WSI is included in the dML as follows: Schedule 8, Part 2, Condition 21; Schedule 9, Part 2, Condition 21; Schedule 10, Part 2, Condition 21.	N
NFOWFS3_054_022_140723	We are pleased to see acknowledged the further assessment of data for potential prehistoric deposits set out in this subsection relating to additional mitigation, and the associated objectives would contribute to publicly available information for seabed prehistory in the Thames offshore region. We note that archaeological input will be afforded to sampling programmes.	Offshore Archaeology and Cultural Heritage	Noted.	N
NFOWFS3_054_023_140723	It is acknowledged there is the potential for previously unknown remains of archaeological interest to be present within the footprint of the proposed scheme. It is stated that unexpected discoveries will be managed through a Protocol for archaeological discoveries, which will be outlined in detail in the Outline (Offshore) WSI (Section 16.6.1.2.3).	Offshore Archaeology and Cultural Heritage	Noted.	N
NFOWFS3_054_024_140723	We are pleased to see monitoring requirements will be described in the in-principle monitoring plan (IPMP) and detailed in the Outline (Offshore) WSI (Section 16.7). Any monitoring proposed should be proportional to the significance of heritage assets potentially impacted.	Offshore Archaeology and Cultural Heritage	Noted.	N

NFOWFS3_054_025_140723	We are mindful that structure placement and cable routes are yet to be confirmed. The maximum design parameters and the approach to identifying maximum possible effect are understood in the assessment provided vis. a worst-case scenario approach. However, we recommend the ES includes depths of dredging required for the placement of gravity base jacket foundations. From our perspective, it is the depth and area of seabed excavation that indicates the greatest possible direct impact to archaeological materials on, within and beneath the contemporary seabed, either within the array areas or offshore ECC.	Offshore Archaeology and Cultural Heritage	Site Selection and Assessment of Alternatives	Table 16.2 assumes an average 5m sediment depth in calculating the maximum volume of disturbed seabed during seabed preparation for Gravity Base Systems (GBS).	N
NFOWFS3_054_026_140723	Table 16.3 presents the embedded mitigation measures; the approaches outlines are what we would expect to see (avoidance/AEZs, further investigation). We are pleased to see avoidance will form the primary mitigation approach, and archaeologists and archaeological specialists will be involved in the design of the geoarchaeological survey campaigns.	Offshore Archaeology and Cultural Heritage		Noted.	N
NFOWFS3_054_027_140723	We would recommend that archaeologists are also be involved in the design of any future geophysical campaigns offshore to ensure opportunities are maximised. In East of England 9 addition, we would also recommend that geoarchaeologists are allowed direct access to the geotechnical cores, to record and assess continuous core sequences rather than isolated deposits allowing for greater reliability and confidence in the resulting conclusions.	Offshore Archaeology and Cultural Heritage		A commitment to seeking the advice of an archaeologist / geoarchaeologist in planning future surveys is set out in the Outline WSI (Offshore) (Document Refence: EN010119/APP/7.11).	N

NFOWFS3_054_028_140723	We advise that all mitigation measures are clearly included as conditions within any draft Deemed Marine Licence submitted and detailed within the Outline (Offshore) WSI.	Policy and Legislative Context		The approach to investigation and mitigation is set out in the Outline WSI (Offshore) (Document Refence: EN010119/APP/7.11). The requirement for a final agreed, post-consent WSI is included in the dML as follows: Schedule 8, Part 2, Condition 21; Schedule 9, Part 2, Condition 21; Schedule 10, Part 2, Condition 21.	N
NFOWFS3_054_029_140723	We appreciate the evolution of the project design, the application of good practice and use of standard protocols. We also note that where significant effects are determined additional mitigation measures will be forthcoming. Any additional mitigation will need to be covered in the Outline (Offshore) WSI.	Project Description	Offshore Archaeology and Cultural Heritage	The approach to investigation and mitigation is set out in the Outline WSI (Offshore) (Document Refence: EN010119/APP/7.11). The requirement for a final agreed, post-consent WSI is included in the dML as follows: Schedule 8, Part 2, Condition 21; Schedule 9, Part 2, Condition 21; Schedule 10, Part 2, Condition 21.	N
NFOWFS3_054_030_140723	We agree with the spatial extent of 56 AEZs proposed, as described in Section 16.6.1.1.1.	Project Description	Offshore Archaeology and Cultural Heritage	Noted.	N

NFOWFS3_054_031_140723	We note the design of the proposed scheme has not yet been finalised, so there is potential it may not be possible to avoid some of identified assets. If this occurs, strategies would be developed and agreed that aim to reduce, remedy or offset disturbances. This may include the use of high resolution geophysical surveys carried out as part of the UXO surveys, or the use of a ROV, which is welcomed (Sections 16.6.1.1.3 and 16.6.1.2.3).	Project Description	Offshore Archaeology and Cultural Heritage	The approach to investigation and mitigation is set out in the Outline WSI (Offshore) (Document Refence: EN010119/APP/7.11). The requirement for a final agreed, post-consent WSI is included in the dML as follows: Schedule 8, Part 2, Condition 21; Schedule 9, Part 2, Condition 21;	N
NFOWFS3_054_032_140723	It should be also noted the true extent of known sites at the time of the application may not be completely recorded and captured within prescribed AEZs until a high resolution UXO specification survey has been undertaken. This should be corroborated with detailed ground-truthing investigations (utilising onboard archaeological expertise), to assess any outlying geophysical anomalies.	Offshore Archaeology and Cultural Heritage		The approach to further investigation / ground truthing is set out in the Outline WSI (Offshore) (Document Refence: EN010119/APP/7.11).	N

NFOWFS3_054_033_140723	Comments in relation to Onshore Archaeology and Cultural Heritage (Volume 1, Chapter 25) (Document Reference 004447035-03) Chapter 25 considers the potential impacts of the Project on onshore archaeology and cultural heritage. It includes baseline data on the historic environment of the study area and an assessment of potential impacts and associated mitigation for the construction, operation and decommissioning phases of the Project. The Chapter is supported by • Cable Landfall Search Area East of England 10 • Historic Environment Desk-Based (Baseline) Assessment (Volume III, Appendix 25.1) • Onshore Cable Corridor(s) and Onshore Substation Zone, Historic Environment Desk-Based (Baseline) Assessment (Volume III, Appendix 25.2) • Onshore Infrastructure Setting Assessment (Volume III, Appendix 25.3) • Offshore Infrastructure Setting Assessment (Volume III, Appendix 25.4) • Heritage Walkover Survey (Volume III, Appendix 25.5) • Geoarchaeological Desk-Based Assessment (Volume III, Appendix 25.7) • Archaeological Geophysical Survey Report (Volume III, Appendix 25.7) • Archaeological Geophysical Survey Report (Volume III, Appendix 25.8) • Five Estuaries Archaeological and Geoarchaeological Monitoring Of Ground Investigation Works Report (Volume III, Appendix 25.9). We offer the following comments in relation to onshore archaeology and cultural heritage, based on the information provided in the PEIR. Comments in relation to the use of LiDAR, historic mapping and HER datasets	Onshore Archaeology and Cultural Heritage	Noted.	N
NFOWFS3_054_034_140723	We welcome the use of LiDAR data to inform assessment (Volume III, Appendix 25.1 and 25.2, Annex D). We would recommend this data is presented in the supporting appendix for the DCO application.	Onshore Archaeology and Cultural Heritage	The LiDAR assessment is included in Appendices 25.1 and 25.2 (Volume III) of this ES.	N

NFOWFS3_054_035_140723	As part of the Scoping Response (12 August 2021), we	Onshore	The LiDAR resolution	N
	have advised previously that resolution of 1m is the basic minimum needed for	Archaeology and Cultural	used was agreed in ETG PEIR Feedback on the	
	archaeological assessments using	Heritage	03/08/2023.	
	LiDAR, but where greater detail is required, higher resolution is preferable. This is in		It was presented that	
	line with Historic England's document, Using Airborne		while 2m resolution may	
	LIDAR in Archaeological		be below the minimum of	
	Surveys, 2018.		Historic England's	
			requirements, this	
			dataset is one of the earliest LiDAR datasets	
			available and still	
			provides	
			microtopographic	
			earthwork evidence,	
			particularly in Simple	
			Local Relief Modelling, which may have been	
			eroded in later datasets	
			and therefore is not	
			discarded from this	
			investigation but included	
			alongside datasets of	
			higher resolution to provide context.	
			Given that most of the	
			features are no longer	
			present, or are visible as	
			cropmarks, from APSs	
			experience, obtaining a higher resolution dataset	
			would not provide	
			sufficiently valuable	
			additional context, and	
			with the extant NLP full	
			site coverage of 1m	
			resolution, when taken as a whole, this	
			as a whole, this investigation meets and	
			exceeds Historic	
			England's minimum	
			requirements.	

NFOWFS3_054_036_140723	We would expect the onshore cable corridor and onshore substation zone options to demonstrate there is sufficiently high LiDAR resolution for the identification of archaeological earthworks. In particular, we note Table 5 of Appendix 25.2, Annex D, shows that half of the LiDAR tiles along the onshore cable corridor have a resolution of 2m. We would, therefore, recommend higher resolution drone LiDAR is obtained and presented, and discussed in the DCO application.	Onshore Archaeology and Cultural Heritage		Addressed in comment above.	N
NFOWFS3_054_037_140723	We note the historic mapping presented for the cable landfall desk-based assessment is presented in Annex D of Volume III, Appendix 25.1. We would recommend the historic mapping is also presented for the entirety of the onshore cable route. We would recommend the historic mapping is reproduced for the DCO application as complete maps, to provide context for the onshore cable route. We East of England 11 would also recommend an insert map is provided for each illustration, to show the location of each figure in relation to the wider scheme.	Onshore Archaeology and Cultural Heritage	Site Selection and Assessment of Alternatives	The reduction of the onshore project area for ES means that the extent of the mapping provided supplies ample context for the assessment purposes.	N
NFOWFS3_054_038_140723	In terms of the presentation of Figure 25.2, to avoid confusion in the DCO application, we would recommend the Palaeolithic and unknown monument polygons and Iron Age and unknown monument points are better distinguished in the ES chapter, i.e. shaded in different colours on Figure 25.2 (and reproduced in the DCO application). This is because it is currently difficult to distinguish each one. Comments in relation to the investigation of Onshore Archaeological Remains (and the impact of Onshore Infrastructure)	Onshore Archaeology and Cultural Heritage		Noted. Figure 25.2 has been to reflect the recommended changes.	N

NFOWFS3_054_039_140723	The direct and indirect impacts that the proposed development could have on the historic environment have been summarised in Section 25.4.3, Paragraph 41. It should be noted that we consider dewatering and any resulting changes to the preservation conditions of an archaeological site a direct impact. We would also recommend issues such as compression are considered in areas where deposits such as peat may be impacted, as this could result in physical damage as well as changing the preservation conditions.	Onshore Archaeology and Cultural Heritage	The GDBA has outlined the areas where the presence of peats and waterlogged deposits may become a concern (Appendix 25.6, Volume III).	N
NFOWFS3_054_040_140723	We note the discussion of previous archaeological investigations (Section 25.5.3.12) that this is focused on archaeological remains/artefacts only and not on the palaeoenvironmental evidence.	Onshore Archaeology and Cultural Heritage	This section is based on data of past investigations held in the Essex Historic Environment Record only. The GBDA has been updated and reissued (Appendix 25.6, Volume III) with the results of new data obtained from recent geoarchaeological monitoring of GI works (Appendix 25.9, Volume III) and geoarchaeological investigations at the onshore substation works area (Appendix 25.12, Volume III).	Z
NFOWFS3_054_041_140723	We note, and welcome, the statement that 'the preferred and optimum mitigation measure is preservation in situ, wherever possible' (Paragraph 305). We would recommend the principles presented in the Historic England document 'Preserving Archaeological Remains' (2015) are referred to where preservation is being considered for a site: It is important to consider each site on a case-by-case basis to ensure preservation is	Onshore Archaeology and Cultural Heritage	HE principles for preservation of archaeological remains in situ are referenced in Section 25.7.	N

	the right choice for the given site and the archaeological remains.			
NFOWFS3_054_042_140723	Where avoidance is not possible, it is stated, 'direct (physical) impacts would be offset or reduced through either preservation in situ or archaeological fieldwork and reporting' (Section 25.8, Paragraph 348, see also Section 25.7.1.2.3, Paragraph 306).	Onshore Archaeology and Cultural Heritage	Noted.	N
NFOWFS3_054_043_140723	We note it is the intention to submit an Outline (Onshore) WSI alongside the DCO application, to be further developed and agreed with stakeholders prior to construction taking account of the final detailed design (Section 25.8, Paragraph 347).	Onshore Archaeology and Cultural Heritage	Noted. The Outline Written Scheme of Investigation (OWSI) has been submitted as part of the DCO application (Doc ref 7.12).	N
NFOWFS3_054_044_140723	East of England 12 We note also it is the intention to determine the site-specific measures post-consent 'in response to the combination of onshore archaeological and cultural heritage assessment' (Section 25.7.1.2.3, Paragraph 304).	Onshore Archaeology and Cultural Heritage	Noted.	N

NFOWFS3_054_045_140723	It is stated in Section 25.7.1.2.4, Paragraph 308 that 'the residual magnitude and significance of effect will be reduced or offset to levels considered non-significant in EIA terms (i.e., anticipated to be no worse than a minor adverse significance of effect for Impact 2)'. At this stage, however, no trial-trenching evaluation has been undertaken to test the results of the aerial photography, LiDAR analysis and potential archaeological assets identified as geophysical anomalies, as well as other potential archaeological remains recorded in the HER (for example, indicated by the Portable Antiquities Scheme) – and to assess the significance of these archaeological remains. It should be noted that geophysical technique applied to date (magnetometry) will not identify all types of archaeological features and remains that may be present, such as organic structures/remains made from wood.	Onshore Archaeology and Cultural Heritage	A programme of evaluation trenching is ongoing and will continue post- consent. The results will provide a better understanding of the sub-surface archaeological remains present to ensure suitable mitigation strategies can be proposed prior to the commencement of development works. Results from the Phase 1 and Phase 2 evaluation trenching surveys are presented in Appendices 25.10 and 25.11 (Volume III).	N
NFOWFS3_054_046_140723	The survey work to date has identified a number of features/sites across the onshore cable corridor and onshore substation zone, some of which have the potential to be of high heritage significance. Similarly, no palaeoenvironmental or geoarchaeological assessment has been carried out. We find this disappointing. We would recommend these techniques should be used as soon as possible to assess significance and potential of the deposits present, and to provide the evidence-base from which the mitigation measures would be produced and agreed.	Onshore Archaeology and Cultural Heritage	Phase 1 and 2 of evaluation trenching has since taken place, the results of which are presented in Appendix 25.10 and 25.11 (Volume III). The GBDA has been updated and reissued (Appendix 25.6, Volume III) with the results of new data obtained from recent geoarchaeological monitoring of GI works (Appendix 25.9, Volume III) and geoarchaeological investigations at the onshore substation works area (Appendix 25.12, Volume III)	Z

NFOWFS3_054_047_140723	We note there is potential for unknown buried archaeological remains, geoarchaeological / palaeoenvironmental remains, and above ground heritage assets, to be affected as a result of construction works (Section 25.7.1.2, Paragraph 261). It is stated, 'in the absence of further data regarding the 'potential' archaeological resource, such assets must be considered as potentially having a high perceived heritage significance' (Section 25.7.1.2, Paragraph 261). In Section 25.4.3.1, Paragraph 46, however, it is stated the level of detail provided in the PEIR, 'sufficiently characterises these assets so that potential impacts upon their significance can be understood for the purposes of EIA'.	Onshore Archaeology and Cultural Heritage	The GBDA has been updated and reissued (Appendix 25.6, Volume III) with the results of new data obtained from recent geoarchaeological monitoring of GI works (Appendix 25.9, Volume III) and geoarchaeological investigations at the onshore substation works area (Appendix 25.12, Volume III)	N
NFOWFS3_054_048_140723	We note Table 25.11 assigns 'perceived heritage importance' to potential archaeological remains identified to date. The criteria for determining heritage importance are listed in Table 25.7. It is, however, caveated in Paragraph 60. We also note it is stated that, 'for assets of an uncertain heritage importance, where East of England 13 uncertainty occurs, the precautionary approach is to assign the highest likely level of importance' (Section 25.4.3.3, Paragraph 61, also 25.5.7, 208-9). We would add that, in the absence of intrusive evaluation, i.e. archaeological trialtrenching and geoarchaeological/palaeoenvironmental surveys, it is problematical to assign importance or significance to archaeological remains.	Onshore Archaeology and Cultural Heritage	The applicant notes this response. The assessments of heritage importance have been reviewed and amended within the ES where appropriate in the light of emerging information from the evaluation trenching at the substation zone.	N
NFOWFS3_054_049_140723	We note in Table 25.11 that a large number of potential archaeological remains have been assigned as low perceived heritage importance. Fourteen recorded sites in Table 25.11 are perceived as 'Low-High'; in effect, this means the significance has not been established at this stage. We also note it is stated 'many of these assets are not yet fully understood' (Section 25.4.3.1, Paragraph 46).	Onshore Archaeology and Cultural Heritage	Archaeological work to date has sought to develop an understanding of the value of identified and potential archaeological remains present along the onshore cable route. Assessment has taken a worst-case approach, considering the highest	N

			perceived value. Further programmes of intrusive evaluation will seek to better define the subsurface archaeological remains present to allow development mitigation proposals. Details of surveys carried out to date are outlined in Section 25.5.4.	
NFOWFS3_054_050_140723	There is also a large number of assets of unknown date within the study area (Section 25.5.3.11, Paragraphs 142-7). We would, therefore, question the further assertion in Paragraph 46 that the level of detail provided in the PEIR 'sufficiently characterises these assets'. In our view, the only way to adequately establish the significance of archaeological remains is through predetermination evaluation.	Onshore Archaeology and Cultural Heritage	The assessments of heritage importance have been reviewed and amended within the ES where appropriate in the light of emerging information from the evaluation trenching at the onshore substation works area. A programme of evaluation trenching is ongoing and will continue post-consent. The results will provide a better understanding of the sub-surface archaeological remains present to ensure suitable mitigation strategies can be proposed prior to the commencement of development works.	N
NFOWFS3_054_051_140723	In our view, the ES chapter submitted as part of the DCO application will need to be supported by sufficient evidence. The significance of all archaeological remains needs to be established and presented in the ES and the impact of the proposals on the significance needs to be presented.	Onshore Archaeology and Cultural Heritage	An analysis of the significance of effects on heritage assets is presented in Section 25.7. This is supported by sufficient and robust evidence.	N

NFOWFS3_054_052_140723	We also note the geophysical survey is ongoing (Section 25.4.7, Paragraph 81). Consequently, the information presented within the PEIR is incomplete. The findings from this ongoing survey will be presented within the ES chapter submitted as part of the final DCO application (Section 25.4.7, Paragraph 81; 25.5.4, 161 and 25.6.1, 240).	Onshore Archaeology and Cultural Heritage	Results from the geophysical surveys are presented in Appendix 25.8 (Volume III).	N
NFOWFS3_054_053_140723	We are concerned to ensure the significance of all archaeological remains is adequately established within the proposed development. We would strongly recommend the onshore cable corridor, landfall search area and onshore substation zone are also assessed by systematic trial-trenching evaluation, test-pitting and, where appropriate, geoarchaeological/palaeoenvironmental coring. This is to ensure archaeological remains of high heritage significance are identified and preserved in situ.	Onshore Archaeology and Cultural Heritage	The programme of evaluation trenching works is ongoing and the results of Phase 1 and Phase 2 evaluations at the Onshore substation works area are presented in Appendix 25.10 and 25.11 (Volume III). The updated GDBA takes account of more recent geoarchaeological and palaeoenvironmental assessments carried out within the onshore project area.	N
NFOWFS3_054_054_140723	We consider the evaluation is especially important for parts of the scheme with limited flexibility to relocate works, and thus avoid (and preserve in situ) any archaeological remains of high heritage significance. We would recommend targeted trial-trenching evaluation is carried out prior to DCO submission, and the results submitted for examination.	Onshore Archaeology and Cultural Heritage	The programme of evaluation trenching works is ongoing and the results of Phase 1 and Phase 2 evaluations at the onshore substation works area are presented in Appendix 25.10 and 25.11 (Volume III). Evaluation trenching has targeted areas where design flexibility is limited, at the onshore substation and at pinch points along the onshore cable route.	N

NFOWFS3_054_055_140723	East of England 14 We consider trial-trenching evaluation should be carried out prior to DCO submission, as a minimum, at the location(s) of the proposed onshore substation zone, as well as at the landfall location, construction compounds and pinch points along the route, for example, at directional drill access points. We also consider any areas of the onshore cable corridor where 'hot spots' of archaeological remains have been defined should be also evaluated with trial-trenching, if they cannot be avoided and preserved in situ by the scheme. This would aid the project design and reduce the risks of unexpected discoveries impacting the completion of the proposed scheme if consented.	Onshore Archaeology and Cultural Heritage	Project Description	The programme of evaluation trenching works at the onshore substation works area have been completed (Phase 1 and Phase 2) and are presented in Appendix 25.10 and 25.11 (Volume III). These form part of an ongoing programme of works that will inform detailed design.	N
NFOWFS3_054_056_140723	In our view, this approach is proportionate and justified to ensure the significance of any archaeological remains have been adequately assessed. It is best practice in terms of the assessment of archaeological remains to identify, in advance, whether any important remains are present that could preclude or modify the proposed development. This is consistent with our response to the Scoping Report (dated 12 August 2021).	Onshore Archaeology and Cultural Heritage		Noted.	N
NFOWFS3_054_057_140723	We consider it premature to assign 'perceived heritage importance' for archaeological remains that have not been fully assessed (Table 25.11). We also consider it problematic, therefore, to assign 'magnitude of impact' to deposits that, we consider, have not been adequately assessed. This is because no archaeological trial-trenching, test-pitting or palaeoenvironmental coring has been undertaken at this stage to establish the significance of archaeological remains.	Onshore Archaeology and Cultural Heritage		The results of Phase 1 and Phase 2 archaeological and geoarchaeological evaluations at the onshore substation works area are presented in Appendix 25.10 and 25.11 (Volume III) and in the ES. These set out an understanding of the value of these heritage assets for assessment purposes, but also form part of an ongoing programme of evaluation works that will	N

				inform development of mitigation strategies.	
NFOWFS3_054_058_140723	The results of the geophysical survey should be tested with trial-trenching evaluation and, in particular, because the geophysics has not defined some of the archaeological remains already recorded by other survey techniques.	Onshore Archaeology and Cultural Heritage		The programme of evaluation trenching works is ongoing. The results of Phase 1 and Phase 2 evaluations at the onshore substation works area are presented in Appendix 25.10 and 25.11 (Volume III). The trench locations targeted known anomalies identified from NMP, aerial imagery and geophysical survey techniques.	N
NFOWFS3_054_059_140723	Furthermore, it is possible that further, previously unknown, remains might be defined by further assessment and, in particular, by trial-trenching. Section 25.4.7, Paragraph 80, for example, states the information used to compile the PEIR chapter 'is not complete and does not preclude the subsequent discovery of further elements of the historic environment that are, at present, unknown'.	Onshore Archaeology and Cultural Heritage		The geophysical survey and settings assessments have been completed and are presented in Appendices 25.3, 25.4 and 25.8 (Volume III). A programme of evaluation trenching is ongoing.	N
NFOWFS3_054_060_140723	It is stated further investigation and data gathering would be progressed postconsent, 'including any outstanding geophysical surveys and trial trenching, alongside additional mitigation requirements as set out in the Outline WSI (Onshore) to be submitted alongside the DCO application' (Section 25.4.3.1, Paragraph 47, also 25.6.1, 242).	Onshore Archaeology and Cultural Heritage	Project Description	The applicant notes this response. Approximately 85% of the onshore project area has been subject to geophysical survey. Gaps in the data relate to areas where survey was not suitable or where access was not available; this information has been combined with desk-based and aerial photographic information	N

			to allow inferences drawn from different techniques to be compared and any discrepancies or apparent shortfalls to be better understood. A programme of evaluation trenching is ongoing and will continue post-consent. The results will provide a better understanding of the sub-surface archaeological remains present to ensure suitable mitigation strategies can be proposed prior to the commencement of development works.	
NFOWFS3_054_061_140723	We note, however, Section 25.7.1.2.3, Paragraph 300 states, additional investigation 'may include' any outstanding geophysical survey and a scheme-wide programme of trial-trenching. In our view, these surveys must be undertaken. The survey and evaluation work will enable the archaeological resource 'to be appropriately addressed by means of mitigating any impacts in a manner that is proportionate to the significance of the remains present' (Section 25.7.1.2.3, Paragraph 300).	Onshore Archaeology and Cultural Heritage	The applicant notes this response. Approximately 85% of the onshore project area has been subject to geophysical survey. Gaps in the data relate to areas where survey was not suitable or where access was not available; this information has been combined with desk-based and aerial photographic information to allow inferences drawn from different techniques to be compared and any discrepancies or apparent shortfalls to be better understood. A programme of evaluation trenching is ongoing and will continue post-consent. The results will provide a better understanding of the sub-surface archaeological remains present to ensure suitable mitigation	

			strategies can be proposed prior to the commencement of development works.	
NFOWFS3_054_062_140723	It is critical, therefore, that the survey and evaluation adequately establish the significance of archaeological remains as well as the impact of the proposed scheme on that significance. It is also critical this work is carried out at the appropriate stage to inform the decision-making process.	Onshore Archaeology and Cultural Heritage	The applicant notes this response. Approximately 85% of the onshore project area has been subject to geophysical survey. Gaps in the data relate to areas where survey was not suitable or where access was not available; this information has been combined with desk-based and aerial photographic information to allow inferences drawn from different techniques to be compared and any discrepancies or apparent shortfalls to be better understood. A programme of evaluation trenching is ongoing and will continue post-consent. The results will provide a better understanding of the sub-surface archaeological remains present to ensure suitable mitigation strategies can be proposed prior to the commencement of development works.	N

NFOWFS3_054_063_140723	Archaeological work at this stage would help to ensure the DCO application is wellinformed and appropriately designed. It would also significantly reduce the risk of additional unexpected costs and delays at a later stage.	Onshore Archaeology and Cultural Heritage	Project Description	The results of Phase 1 and Phase 2 evaluations at the onshore substation works area are presented in Appendix 25.10 and 25.11 (Volume III). These evaluations have contributed to a well-informed and appropriately designed scheme.	Z
NFOWFS3_054_064_140723	If archaeological evaluation is not undertaken, as recommended, the applicant should provide clear justification in the DCO application for this, i.e. as to why it has not been, or cannot be, undertaken at this stage in the process.	Project Description		The results of Phase 1 and Phase 2 evaluations at the onshore substation works area are presented in Appendix 25.10 and 25.11 (Volume III). These evaluations have contributed to a well-informed and appropriately designed scheme.	N
NFOWFS3_054_065_140723	The applicant should also factor any risks into the ongoing project timetables to ensure any unexpected discoveries are managed appropriately.	Project Description		The results of Phase 1 and Phase 2 evaluations at the onshore substation works area are presented in Appendix 25.10 and 25.11 (Volume III). These evaluations have contributed to a well-informed and appropriately designed scheme.	N
NFOWFS3_054_066_140723	For areas of the proposed development where trial-trenching evaluation would not be undertaken in advance of DCO, we would recommend the DCO should be worded appropriately to secure preservation in situ of any archaeological remains of high heritage significance defined post consent, should the circumstances be considered necessary by Essex County Council and also Historic England.	Project Description	Onshore Archaeology and Cultural Heritage	This archaeological investigation and mitigation is set out in the OWSI (Doc ref 7.12) which will be secured as a requirement of the draft DCO.	Z

NFOWFS3_054_067_140723	The potential impact to buried archaeological remains would be mitigated through preservation by record and through an approved programme of archaeological investigation, although we note remains will be preserved in situ, wherever possible. The approaches used to mitigate the impacts would be presented in the Outline WSI.	Onshore Archaeology and Cultural Heritage	This archaeological investigation and mitigation is set out in the OWSI (Doc ref 7.12) which will be secured as a requirement of the draft DCO.	N
NFOWFS3_054_068_140723	The approaches that may be used for archaeological mitigation are summarised in Section 25.7.1.2.3, Paragraph 301. In addition to preservation in situ, these would include archaeological excavation, archaeological monitoring and watching brief and also earthwork condition surveys. The approaches listed are what we would expect but we need to comment on the detail of the Outline WSI when it has been produced.	Onshore Archaeology and Cultural Heritage	Noted, this will be detailed within the OWSI (Doc ref 7.12)	N
NFOWFS3_054_069_140723	It is stated in Section 25.7.1.3.1, Paragraph 315 that 'the presence / absence, nature and extent of deposits of geoarchaeological and palaeoenvironmental interest is currently unknown (or not fully established) within the onshore project area, [and] it is not possible to identify potential impacts according to the various elements of construction'. This points to a clear area of investigation that is needed for the ES so the impacts of the proposed scheme can be understood and mitigated. We do not agree, therefore, with Section 25.7.1.3.4, Paragraph 321 which states that magnitudes of impacts can be reduced through mitigation.	Onshore Archaeology and Cultural Heritage	Further assessment of geoarchaeological and palaeoenvironmental remains has since been completed and is presented in Appendix 25.12 (Volume III), allowing appropriate and effective mitigation to be defined. The results of which are summarised in section 25.5.4 and carried through to the impact assessment in section 25.6.	N

NFOWFS3_054_070_140723	It is noted there is moderate to high geoarchaeological and palaeoenvironmental potential within the onshore study area (Section 25.5.11). It is also noted that peat was recorded in all three boreholes monitored at the landfall location (Section 25.5.11, Paragraph 231 and Volume 3, Appendix 25.9) which could be of high archaeological and/or palaeoenvironmental interest. It is also stated, further evaluation of potential geoarchaeological / palaeoenvironmental remains 'is likely to include a programme of geoarchaeological monitoring of engineering-led GI works to inform mitigation approaches such as geoarchaeological assessment and palaeoenvironmental survey' (Section 25.7.1.2.3, Paragraph 301). We would recommend a systematic geoarchaeological assessment is carried out, informed by the geoarchaeological desk-based assessment (Volume 3, Appendix 25.6). It should not be based solely on the monitoring of engineering-led works as these do not always targeted areas of archaeological interest. Again, we would recommend this assessment is carried out in advance of the DCO, and the results submitted, along with mitigation measures, for examination. If engineering-led GI are to be monitored as well, we would recommend that additional detail is provided in a method statement about how the deposits will be sampled and assessed. We would also recommend the geoarchaeologists are allowed direct access to, and able to retain when necessary, the geotechnical cores. This is because it is better to record and assess continuous core sequences rather than isolated deposits as this allows for greater reliability and confidence in the resulting conclusions. We would be pleased to review the method statement for this work.	Onshore Archaeology and Cultural Heritage	Project Description	The geoarchaeological monitoring of ground investigation works has been carried out and is presented in Appendix 25.9 (Volume III).	N

NFOWFS3_054_071_140723	We would recommend the application of scientific dating is considered carefully before the cores are recovered as some of the deposits discussed in this section exceed the upper limit of some dating techniques, such as radiocarbon dating. For these deposits, alternative techniques would be required, such as optically stimulated luminescence (OSL) dating. As this technique provides a date for the last time mineral grains were exposed to light, the collection and storage of sampled cores needs to be carefully considered and may require the use of light-proof sleeves on cores when they are being collected.	Onshore Archaeology and Cultural Heritage		Storage and processing of samples for scientific dating techniques and other analyses will be planned as appropriate and as required in future stages of mitigation, drawing on information recovered from the archaeological evaluation trenching and geoarchaeological survey to date. Details will be provided within the Outline WSI (doc ref. 7.12)	N
NFOWFS3_054_072_140723	We are pleased the potential indirect impacts to archaeological remains during construction have been discussed in Section 25.7.1.3, including the potential for dewatering that would lead to the degradation to any remains of interest from changes to ground conditions (Section 25.7.1, Paragraph 250 and 25.7.1.3, 311). It should be noted that changes to the water environment could impact the preservation conditions of nearby archaeological remains/deposits outside of the red-line boundary.	Onshore Archaeology and Cultural Heritage		Assessment of potential changes in ground conditions is presented in Section 25.7.1.2.4.	Z
NFOWFS3_054_073_140723	Section 25.7.1.3, Paragraph 311 states, 'construction activities undertaken as part of the Project have the potential to effect below ground deposits of archaeological and geoarchaeological interest over a wider area than that of the footprint of the Project, for example, through hydrological changes that may cause desiccation and drying out of wetland deposits and associated preserved waterlogged archaeological or geoarchaeological remains'.	Ground Conditions and Contamination	Offshore Archaeology and Cultural Heritage	A detailed approach to mitigating the potential impact of the development on below ground deposits of archaeological and geoarchaeological remains is specified in the OWSI submitted as part of the DCO application and secured via the DCO.	N

NFOWFS3_054_074_140723	We agree with this statement but it is unclear from the PEIR how this will be assessed or established. We assume it would be established post-consent, and this work would be specified in the Outline (Onshore) WSI referred to in Section 25.7.1.3.3, Paragraph 320.	Project Description		A detailed approach to mitigating the potential impact of the development on below ground deposits of archaeological and geoarchaeological remains is specified in the OWSI submitted as part of the DCO application and secured via the DCO.	N
NFOWFS3_054_075_140723	We recommend this is carried out in advance of the DCO, and the results submitted, along with mitigation measures, for examination. In terms of the timetable for this work, it should be noted that some of the approaches used to investigate the water environment can take at least several weeks to complete.	Project Description		A detailed approach to mitigating the potential impact of the development on below ground deposits of archaeological and geoarchaeological remains is specified in the OWSI submitted as part of the DCO application and secured via the DCO.	N
NFOWFS3_054_076_140723	If the proposed development has the potential to dewater areas we would need to understand the extent of the impact on deposits/remains of archaeological and palaeoenvironmental interest (horizontal and vertical) and if the effects would be permanent. Some impacts may be mitigated through engineering/design options, but we would need to understand how any impacts would be managed and the effects this would have on any remains of interest.	Ground Conditions and Contamination	Offshore Archaeology and Cultural Heritage	A detailed approach to mitigating the potential impact of the development on below ground deposits of archaeological and geoarchaeological remains is specified in the OWSI submitted as part of the DCO application and secured via the DCO.	N
NFOWFS3_054_077_140723	The preparation of the Outline (Onshore) WSI will need to detail how organic deposits will be sampled and investigated, the sort of remains that will be assessed and the techniques that will be applied.	Project Description		A detailed approach to mitigating the potential impact of the development on below ground deposits of archaeological and geoarchaeological remains is specified in the OWSI submitted as part of the DCO application and secured via the DCO.	N

NFOWFS3_054_078_140723	Comments in relation to the proposed Outline WSIs (for Onshore Infrastructure) We note the archaeological mitigation requirements would be set out in the Outline (Onshore) WSI to be submitted alongside the DCO application. We have provided some further comments, below, to inform the production of this document. We would be pleased to provide more detailed advice and guidance in due course.	Project Description	The OWSI secured by DCO Requirement (see document reference 7.12) sets out the scope and methods of further archaeological investigation, allowing the appointed archaeological advisor/contractor to set out site-specific WSIs. It will also set out broad opportunities for archaeological engagement and outreach.	N
NFOWFS3_054_079_140723	East of England 18 The Written Scheme of Investigation for each stage of archaeological work should be approved by Essex County Council and Historic England, as the statutory historic body.	Introduction	The OWSI secured by DCO Requirement (see document reference 7.12) sets out the scope and methods of further archaeological investigation, allowing the appointed archaeological advisor/contractor to set out site-specific WSIs. It will also set out broad opportunities for archaeological engagement and outreach.	N
NFOWFS3_054_080_140723	We would recommend, therefore, that Historic England is also a named party in the DCO to ensure subsequent documentation relating to archaeological investigation are also approved by Historic England post DCO being granted.	Project Description	The OWSI secured by DCO Requirement (see document reference 7.12) sets out the scope and methods of further archaeological investigation, allowing the appointed archaeological advisor/contractor to set out site-specific WSIs. It will also set out broad opportunities for archaeological engagement and outreach.	N

NFOWFS3_054_081_140723	The Outline (Onshore) WSI should outline the work that will be carried out as well as the approaches the utilised and the remains that will be investigated. The document should be clear how this work will proceed. It should also outline what is expected of the contracting unit(s) responsible for excavating the sites.	Project Description	The OWSI secured by DCO Requirement (see document reference 7.12) sets out the scope and methods of further archaeological investigation, allowing the appointed archaeological advisor/contractor to set out site-specific WSIs. It will also set out broad opportunities for archaeological engagement and outreach.	N
NFOWFS3_054_082_140723	We would recommend the Outline (Onshore) WSI should be supplemented by a detailed WSI prepared for each stage of archaeological investigation by the archaeological organisation commissioned to undertake the work. This should be included in the DCO to ensure the detailed scope for each stage of investigation is approved by Essex County Council and Historic England prior to commencement of the archaeological investigation. We would be pleased to review these WSIs.	Project Description	The OWSI secured by DCO Requirement (see document reference 7.12) sets out the scope and methods of further archaeological investigation, allowing the appointed archaeological advisor/contractor to set out site-specific WSIs. It will also set out broad opportunities for archaeological engagement and outreach.	N
NFOWFS3_054_083_140723	If the evaluation (archaeological trial-trenching, test-pitting and palaeoenvironmental coring) is not undertaken in advance, we also consider that the detailed WSIs for evaluation of the onshore infrastructure should be also submitted for DCO examination, along with the Outline WSI.	Project Description	The OWSI secured by DCO Requirement (see document reference 7.12) sets out the scope and methods of further archaeological investigation, allowing the appointed archaeological advisor/contractor to set out site-specific WSIs. It will also set out broad opportunities for archaeological engagement and outreach.	N

NFOWFS3_054_084_140723	A timetable for each stage of archaeological investigation, including fieldwork, assessment, analysis, reporting, publication and archiving, as well as display and presentation and community engagement, should be submitted to and approved by Essex County Council and Historic England. This should be included in the DCO to provide clarity to all parties as to when the approval of the detailed written scheme of archaeological investigation or detailed method statement, by the competent authority, will occur.	Project Description	The OWSI secured by DCO Requirement (see document reference 7.12) sets out the scope and methods of further archaeological investigation, allowing the appointed archaeological advisor/contractor to set out site-specific WSIs. It will also set out broad opportunities for archaeological engagement and outreach.	N
NFOWFS3_054_085_140723	As well as publication and deposition of the project archive in a suitable museum or archive repository, we would recommend there should be provision for public engagement and outreach activities during the investigation as well as provision for the museum-quality display of artefacts and presentation of discoveries revealed by the proposed development. We consider this would help to mitigate the impact of the development on archaeological remains.	Project Description	The OWSI secured by DCO Requirement (see document reference 7.12) sets out the scope and methods of further archaeological investigation, allowing the appointed archaeological advisor/contractor to set out site-specific WSIs. It will also set out broad opportunities for archaeological engagement and outreach.	N
NFOWFS3_054_086_140723	Comments in relation to the Historic Environment Settings Analysis – Onshore Substation We note the consideration of heritage setting in Section 25.5.8 as well as in Volume 3, Appendix 25.3 (document ref. 004612096-02) for the onshore substation. The heritage assets considered as part of the initial setting assessment for the onshore infrastructure are listed in Section 25.5.8, Paragraph 212. We are satisfied with selection of the highly-graded heritage assets (Scheduled Monuments and Grade I and II* Listed Buildings) for assessment. We can also confirm we are satisfied the Scheduled 'Settlement site NNE of Lawford	Onshore Archaeology and Cultural Heritage	The applicant notes the response which has been used to inform the scope of the assessment of effects arising from change to setting of heritage assets within Appendix 25.3 (Volume III) and Section 25.7.	N

	House' (List Entry Number 1002157) has been discounted, as stated in Section 25.5.8, Paragraph 213.			
NFOWFS3_054_087_140723	'Crop mark site S of Ardleigh' (LEN 1002146) We welcome the inclusion of this Scheduled Monument within the assessment (Appendix 25.3, Section 6.1). This Monument is currently on the Heritage at Risk Register:	Onshore Archaeology and Cultural Heritage	The assessment has been updated to reflect the comment and is presented in Appendix 25.3 (Volume III). Reference is made to summer and winter viewpoint photography in the assessment presented at Appendix 25.3 and Section 25.7 and cumulative effects have been considered at Section 25.9 of the ES.	N
NFOWFS3_054_088_140723	We have concerns in terms of the assessment of setting and the impact of the proposed onshore substation on this Scheduled Monument. It is stated in Appendix 25.3, Paragraph 41, that 'views of the cropmark site are not considered to contribute to the appreciation of the asset and/or its setting'. We disagree with this assessment. We consider the rural, agricultural setting makes a positive contribution to the significance of this Monument. This asset therefore needs to be re-assessed and amended	Onshore Archaeology and Cultural Heritage	The assessment has been updated to reflect the comment and is presented in Appendix 25.3 (Volume III). Reference is made to summer and winter viewpoint photography in the assessment presented at Appendix 25.3 and Section 25.7 and cumulative effects have been considered at Section 25.9 of the ES.	N

NFOWFS3_054_089_140723	It is stated that there are no views of the onshore substation zone from this Monument (Appendix 25.3, Paragraph 41). We also note Cultural Heritage Viewpoint 2, Figures 25.3.3a-c. These visualisations need to be reproduced with winter images, to shore the same viewpoints without foliage, and to demonstrate the worst-case scenario. This is because we consider the proposed development has the potential to result in a change to the setting.	Onshore Archaeology and Cultural Heritage		The assessment has been updated to reflect the comment and is presented in Appendix 25.3 (Volume III). Reference is made to summer and winter viewpoint photography in the assessment presented at Appendix 25.3 and Section 25.7 and cumulative effects have been considered at Section 25.9 of the ES.	N
NFOWFS3_054_090_140723	The visualisations must be reproduced to assess the cumulative impact of the proposed onshore substation for the Five Estuaries OWF as well as the proposed National Grid East Anglia Connection Node. This is because we consider the proposed developments, together, have the potential to result in a change to the setting, resulting in harm to the significance of the Scheduled Monument.	Landscape and Visual Impact Assessment	Offshore Archaeology and Cultural Heritage	The assessment has been updated to reflect the comment and is presented in Appendix 25.3 (Volume III). Reference is made to summer and winter viewpoint photography in the assessment presented at Appendix 25.3 and Section 25.7 and cumulative effects have been considered at Section 25.9 of the ES.	N
NFOWFS3_054_091_140723	'Church of St Mary, Little Bromley' (LEN 1337175) We welcome the inclusion of this Grade II* Listed church within the assessment (Appendix 25.3, Section 6.3). We have concerns in terms of the assessment of setting and the impact of the proposed onshore substation on this highly-graded designated heritage asset. We consider the rural, agricultural setting makes a positive contribution to the significance of this Church. We note, however, it is stated in Appendix 25.3, Paragraph 61, 'views from the church into the landscape are not considered to be such a key component to its appreciation and setting'. It is also stated, 'while the setting of the church is considered to be an important contributor to its significance, long range views from the church towards the wider	Onshore Archaeology and Cultural Heritage		The assessment has been updated to reflect the comment and is presented in Appendix 25.3 (Volume III). Reference is made to summer and winter viewpoint photography in the assessment presented at Appendix 25.3 and Section 25.7 and cumulative effects have been considered at Section 25.9 of the ES. Appendix 25.3 also includes visualisations from the cultural heritage viewpoints.	N

	landscape are not considered to be a key factor to its setting' (Appendix 25.3, Paragraph 62).				
NFOWFS3_054_092_140723	It is stated that the farmhouse and farm buildings limit the views achievable in the direction towards the onshore substation zone (Appendix 25.3, Paragraph 41). We also note Cultural Heritage Viewpoint 3, Figures 25.3.4a-c. We would suggest this viewpoint is reviewed and revisited.	Landscape and Visual Impact Assessment		The assessment has been updated to reflect the comment and is presented in Appendix 25.3 (Volume III). Reference is made to summer and winter viewpoint photography in the assessment presented at Appendix 25.3 and Section 25.7 and cumulative effects have been considered at Section 25.9 of the ES. Appendix 25.3 also includes visualisations from the cultural heritage viewpoints.	N
NFOWFS3_054_093_140723	We recommend a proxy location should be considered for this asset and would be pleased to provide further advice. We also note it is stated, the onshore substation zone 'will alter the view of the Church from Little Bromley. This Change is likely to affect the appreciation of the parish Church from the village, however, it is not considered to impact the heritage significance of the Church' (Appendix 25.3, Paragraph 85).	Landscape and Visual Impact Assessment	Onshore Archaeology and Cultural Heritage	The assessment has been updated to reflect the comment and is presented in Appendix 25.3 (Volume III). Reference is made to summer and winter viewpoint photography in the assessment presented at Appendix 25.3 and Section 25.7	N

				and cumulative effects have been considered at Section 25.9 of the ES. Appendix 25.3 also includes visualisations from the cultural heritage viewpoints.	
NFOWFS3_054_094_140723	This asset will be revisited once the substation design is further progressed (Appendix 25.3, Paragraph 66), which is welcomed. This is because the setting makes a positive contribution to the significance of this monument and because, in our view, the proposed development has the potential to result in a change to the setting. We would recommend that proposals should be put forward by the applicant to mitigate the impact of the onshore substation on the significance of this heritage asset.	Landscape and Visual Impact Assessment	Onshore Archaeology and Cultural Heritage	The assessment has been updated to reflect the comment and is presented in Appendix 25.3 (Volume III). Reference is made to summer and winter viewpoint photography in the assessment presented at Appendix 25.3 and Section 25.7 and cumulative effects have been considered at Section 25.9 of the ES. Appendix 25.3 also includes visualisations from the cultural heritage viewpoints.	N
NFOWFS3_054_095_140723	We would also recommend this visualisation needs to be reproduced with a winter image, to show the same viewpoint without foliage, and to demonstrate the worstcase scenario. This is because we consider the proposed development has the potential to result in a change to the setting.	Landscape and Visual Impact Assessment	Onshore Archaeology and Cultural Heritage	The assessment has been updated to reflect the comment and is presented in Appendix 25.3 (Volume III). Reference is made to summer and winter viewpoint photography in the assessment presented at Appendix 25.3 and Section 25.7 and cumulative effects have been considered at Section 25.9 of the ES. Appendix 25.3 also includes visualisations from the cultural heritage viewpoints.	N

NFOWFS3_054_096_140723	The visualisations must be reproduced to assess the cumulative impact of the proposed onshore substation for the Five Estuaries OWF as well as the proposed National Grid East Anglia Connection Node. This is because we consider the proposed developments, together, have the potential to result in a change to the setting, resulting in harm to the significance of the Grade II* Listed church.	Onshore Archaeology and Cultural Heritage	The assessment has been updated to reflect the comment and is presented in Appendix 25.3 (Volume III). Reference is made to summer and winter viewpoint photography in the assessment presented at Appendix 25.3 and Section 25.7 and cumulative effects have been considered at Section 25.9 of the ES. Appendix 25.3 also includes visualisations from the cultural heritage viewpoints.	N
NFOWFS3_054_097_140723	Cropmark site south and west of Little Bromley Hall (EHER 2460) We welcome the inclusion of this non-designated heritage asset within the assessment (Appendix 25.3, Section 6.5). As previously stated, in our view, the probable henge should be considered to be of equivalent significance to a Scheduled Monument.	Onshore Archaeology and Cultural Heritage	The assessment has been updated to reflect the comment and is presented in Appendix 25.3 (Volume III). Reference is made to summer and winter viewpoint photography in the assessment presented at Appendix 25.3 and Section 25.6 and cumulative effects have been considered at Section 25.8 of the ES. Mitigation is outlined in Section 25.6.2.	N
NFOWFS3_054_098_140723	We have concerns in terms of the assessment of setting and the impact of the proposed onshore substation on this non-designated asset. It is stated in Appendix 25.3, Paragraph 81, that 'views of the henge are not considered to contribute to the appreciation of the asset and/or its setting'. We disagree with this assessment. We consider the rural, agricultural setting makes a positive contribution to the significance of this asset and it draws a considerable amount of significance from how it is experienced in the landscape.	Onshore Archaeology and Cultural Heritage	The assessment has been updated to reflect the comment and is presented in Appendix 25.3 (Volume III). Reference is made to summer and winter viewpoint photography in the assessment presented at Appendix 25.3 and Section 25.6 and cumulative effects have	N

			been considered at Section 25.8 of the ES. Mitigation is outlined in Section 25.6.2.	
NFOWFS3_054_099_140723	It is noted that views of the tallest structures within the onshore substation zone will be achievable above the existing tree line (Appendix 25.3, Paragraph 83). We also note Cultural Heritage Viewpoint 4, Figures 25.3.5a-c. It is, however, concluded that this 'slight changeis not considered to change the existing setting of the henge and/or its heritage significance' (Appendix 25.3, Paragraph 83).	Landscape and Visual Impact Assessment	The assessment has been updated to reflect the comment and is presented in Appendix 25.3 (Volume III). Reference is made to summer and winter viewpoint photography in the assessment presented at Appendix 25.3 and Section 25.6 and cumulative effects have been considered at Section 25.8 of the ES. Mitigation is outlined in Section 25.6.2.	N
NFOWFS3_054_100_140723	We would also recommend this visualisation needs to be reproduced with a winter image, to show the same viewpoint without foliage, and to demonstrate the worstcase scenario. This is because we consider the proposed development has the potential to result in a change to the setting. Again, we would recommend proposals should be put forward by the applicant to mitigate the impact of the onshore substation on the significance of this heritage asset.	Landscape and Visual Impact Assessment	The assessment has been updated to reflect the comment and is presented in Appendix 25.3 (Volume III). Reference is made to summer and winter viewpoint photography in the assessment presented at Appendix 25.3 and Section 25.6 and cumulative effects have been considered at Section 25.8 of the ES. Mitigation is outlined in Section 25.6.2.	N

NFOWFS3_054_101_140723	Cumulative Effects Assessment – Onshore Infrastructure We note Section 25.9 and Tables 25.13-16 relating to cumulative effects. Three developments have been scoped into the cumulative effects assessment for the ES (Section 25.9.3, Paragraph 354):	Onshore Archaeology and Cultural Heritage	The impact upon heritage setting from onshore and offshore infrastructure are detailed in Appendix 25.3 and 25.4	N
	· Five Estuaries Offshore Wind Farm ('Five Estuaries'); · East Anglia GREEN; and · Land adjacent to Lawford Grid Substation Ardleigh Road Little Bromley Essex CO11 2QB (for construction and operation of a 50MW Battery Energy Storage System ('Little Bromley BESS').		respectively, and summarised in section 25.6.1.1. Cumulative visualisation from the viewpoints agreed with Historic England through the EPP are provided in Appendix 25.3.	
NFOWFS3_054_102_140723	We consider it is critical that cumulative, heritage-specific visualisations are provided for examination, given the potential combined scale of the proposed developments adjacent to the proposed North Falls.	Project Description	The impact upon heritage setting from onshore and offshore infrastructure are detailed in Appendix 25.3 and 25.4 respectively, and summarised in section 25.6.1.1. Cumulative visualisation from the viewpoints agreed with Historic England through the EPP are provided in Appendix 25.3.	N
NFOWFS3_054_103_140723	In terms of the cumulative effects for onshore infrastructure relating to permanent change in the setting of heritage assets that might affect significance, we recommend cumulative visualisations should be prepared for both the Grade II* listed Church of St Mary, Little Bromley (LEN 1337175) and the Scheduled 'Crop mark site S of Ardleigh' (LEN 1002146). We would also recommend the non-designated Cropmark site south and west of Little Bromley Hall (MONUID ref. MEX8620), under consideration as a possible Scheduled Monument, is similarly assessed for cumulative effects.	Onshore Archaeology and Cultural Heritage	The impact upon heritage setting from onshore and offshore infrastructure are detailed in Appendix 25.3 and 25.4 respectively, and summarised in section 25.6.1.1. Cumulative visualisation from the viewpoints agreed with Historic England through the EPP are provided in Appendix 25.3.	N

NFOWFS3_054_104_140723	We would be pleased to provide further advice and guidance in due course, as the detailed assessment progresses – and about the identification of assets for cumulative effects assessment with other projects. In terms of the cumulative effects for the offshore infrastructure, we would recommend that the coastal heritage assets identified for the Historic Environment Settings Analysis form the basis of the cumulative effects assessment with the proposed Five Estuaries OWF.	Onshore Archaeology and Cultural Heritage	The impact upon heritage setting from onshore and offshore infrastructure are detailed in Appendix 25.3 and 25.4 respectively, and summarised in section 25.6.1.1. Cumulative visualisation from the viewpoints agreed with Historic England through the EPP are provided in Appendix 25.3.	N
NFOWFS3_054_105_140723	Comments in relation to the Historic Environment Settings Analysis – Offshore Infrastructure We note the consideration of heritage setting in Chapter 25, Section 25.5.8, Paragraph 215, as well as in Volume 3, Appendix 25.4 (document ref 004620271-02) for the offshore infrastructure.	Offshore Archaeology and Cultural Heritage	The applicant notes the response. The scope of the assessment of change to setting has been updated to reflect this advice and is presented in Appendix 25.4 (Volume III) and section 25.7. It was agreed at ETG that a rooftop viewpoint would not be appropriate as this view does not represent the key view of or from the tower in terms of contribution to significance. Reference has been made to relevant cumulative visualisations in producing the assessment.	N
NFOWFS3_054_106_140723	We note the coastal heritage assets considered with respect to the offshore infrastructure, listed in Section 25.5.8, Paragraph 215. We are concerned these are limited to the Tendring coastline but we note that further assessment will be undertaken to inform the final ES, which is likely to include a larger study area extending northwards towards Aldeburgh in Suffolk (Section 25.5.8, Paragraph 216).	Offshore Archaeology and Cultural Heritage	The applicant notes the response. The scope of the assessment of change to setting has been updated to reflect this advice and is presented in Appendix 25.4 (Volume III) and section 25.7. It was agreed at ETG that a rooftop viewpoint would not be appropriate as this	N

				view does not represent the key view of or from the tower in terms of contribution to significance. Reference has been made to relevant cumulative visualisations in producing the assessment.	
NFOWFS3_054_107_140723	We would strongly recommend a larger study area is included in the assessment, to ensure all the highly-graded heritage assets potentially impacted by the offshore infrastructure are adequately assessed. We note that a full assessment for both onshore and offshore infrastructure will be reported on at the ES stage (Section 25.5.8, Paragraph 217).	Offshore Archaeology and Cultural Heritage		The applicant notes the response. The scope of the assessment of change to setting has been updated to reflect this advice and is presented in Appendix 25.4 (Volume III) and section 25.7. It was agreed at ETG that a rooftop viewpoint would not be appropriate as this view does not represent the key view of or from the tower in terms of contribution to significance. Reference has been made to relevant cumulative visualisations in producing the assessment.	N
NFOWFS3_054_108_140723	We would be pleased to provide further advice and guidance in due course about the identification of highly-graded heritage assets in due course. We would recommend there are additional assets that should be included along the Tendring coastline, including, for example, the Grade II* Listed 'Naze Tower' (List Entry Number 1165846) and Scheduled Martello Tower D (List Entry Number 1016553).	Offshore Archaeology and Cultural Heritage	Project Description	The applicant notes the response. The scope of the assessment of change to setting has been updated to reflect this advice and is presented in Appendix 25.4 (Volume III) and section 25.7. It was agreed at ETG that a rooftop viewpoint would not be appropriate as this view does not represent the key view of or from the tower in terms of contribution to significance. Reference	N

				has been made to relevant cumulative visualisations in producing the assessment.	
NFOWFS3_054_109_140723	The viewpoints and visualisations must be heritage-specific to enable the visual impact of the scheme on the setting of key highly-graded designated heritage assets to be adequately assessed.	Landscape and Visual Impact Assessment	Project Description	The applicant notes the response. The scope of the assessment of change to setting has been updated to reflect this advice and is presented in Appendix 25.4 (Volume III) and section 25.7. It was agreed at ETG that a rooftop viewpoint would not be appropriate as this view does not represent the key view of or from the tower in terms of contribution to significance. Reference has been made to relevant cumulative visualisations in producing the assessment.	N
NFOWFS3_054_110_140723	For example, we consider the critical viewpoint for coastal Martello Towers to be from the gun platform. The viewpoint for the Grade II* Listed The Naze Tower, Walton-onthe-Naze should be taken from the top of the tower, that is 26m high. This is because the impact is potentially quite different from a viewpoint at ground level, and this is, therefore, the location that should be used for the heritage assessment visualisation.	Landscape and Visual Impact Assessment		The applicant notes the response. The scope of the assessment of change to setting has been updated to reflect this advice and is presented in Appendix 25.4 (Volume III) and section 25.7. It was agreed at ETG that a rooftop viewpoint would not be appropriate as this view does not represent the key view of or from the tower in terms of contribution to significance. Reference has been made to relevant cumulative visualisations in	N

			producing the assessment.	
NFOWFS3_054_111_140723	We consider the setting assessment should be carried out in accordance with the approach set out in Historic Environment Good Practice Advice in Planning Note 3, The Setting of Heritage Assets (GPA3). In terms of access GPA3 states, because the contribution of setting to significance does not depend on public rights or ability to access it, significance is not dependent on numbers of people visiting it'. The visualisations must be reproduced to assess the cumulative impact of the proposed offshore infrastructure for the Five Estuaries OWF.	Landscape and Visual Impact Assessment	The applicant notes the response. The scope of the assessment of change to setting has been updated to reflect this advice and is presented in Appendix 25.4 (Volume III) and section 25.7. It was agreed at ETG that a rooftop viewpoint would not be appropriate as this view does not represent the key view of or from the tower in terms of contribution to significance. Reference has been made to relevant cumulative visualisations in producing the assessment.	N
NFOWFS3_054_112_140723	Comments in relation to the Archaeological Assessment of Geophysical Data (Volume 3, Appendix 16.1) (Document Reference 004742749-01) We understand this presents an assessment of geophysical survey data comprising sub-bottom profiler (SBP), sidescan sonar (SSS), magnetometry and multibeam echosounder (MBES). The data was acquired by Fugro in 2021; it was noted the line spacings used in different areas varied (Section 2.2.1). The line spacings used were generally greater than recommended in the Historic England document 'Marine Geophysics' (2013) in all areas, with the exception of part of the Offshore cable corridor, and so further, more detailed studies will be required to investigate the	Offshore Archaeology and Cultural Heritage	The geophysical data is considered to provide an accurate characterisation of the archaeological potential of the study area, appropriate to the purposes of EIA. A commitment to the acquisition, and assessment, of further high resolution geophysical data postconsent is set out in the Outline WSI (Offshore) (Document Refence: EN010119/APP/7.11).	N

	analog allogical material of the development are a feeting			
	archaeological potential of the development area in due course.			
NFOWFS3_054_113_140723	It was noted that all of the geophysical data collected in 2021 was classed as being of 'Good' quality (Sections 2.4.2-2.4.5), meaning the datasets provide the highest probability that anomalies of archaeological potential will be identified.	Offshore Archaeology and Cultural Heritage	Noted.	N
NFOWFS3_054_114_140723	The geology of the development area has been divided into four units. Unit 3 has the highest archaeological/palaeoenvironmental potential and comprises numerous terrestrial channel features likely to represent terrestrial deposits dating from the pre-Anglian to the Early Holocene. They have the potential to contain both in situ and derive archaeological artefacts and preserve palaeoenvironmental evidence that could contribute to the reconstruction of past landscapes and environments (Sections 3.2.6, 3.2.18, 3.2.26, 3.2.38 and 5.1.2). For example, the current data suggests a significant palaeolandscape may be preserved in the western section of the southern array area.	Offshore Archaeology and Cultural Heritage	Noted.	N
NFOWFS3_054_115_140723	Appendix 16.1, Section 3.2.28, 3.2.39 & 5.1.3 It is acknowledged that further work is needed to investigate the palaeolandscape features in more detail (Sections 3.2.28, 3.2.39 and 5.1.3). We are pleased to see recommendations have been made for suitably qualified archaeological contractors to be consulted during the geotechnical site selection process, and in the assessment of the resulting information (Section 5.1.3).	Offshore Archaeology and Cultural Heritage	Noted.	N

NFOWFS3_054_116_140723	We are pleased to see AEZs will be applied to A1 and A3 anomalies, with buffers of 50-100m depending on how dispersed the sites are (Section 5.2.2). It is noted the size and shape of AEZs could be altered should further information become available.	Project Description	The approach to investigation and mitigation is set out in the Outline WSI (Offshore) (Document Refence: 7.11). The requirement for a final agreed, post-consent WSI is included in the dML as follows: Schedule 8, Part 2, Condition 21; Schedule 9, Part 2, Condition 21; Schedule 10, Part 2, Condition 21.	N
NFOWFS3_054_117_140723	It is stated that AEZs will not be applied to A2 anomalies. These remains will be avoided where possible through micro-siting. If they cannot be avoided then further assessment will be needed to ascertain the nature of the features and define the appropriate mitigation (Section 5.2.3). This approach seems sensible, but the investigation approaches that will be used will need to be detailed within subsequent Offshore WSI documents.	Project Description	The approach to investigation and mitigation is set out in the Outline WSI (Offshore) (Document Refence: 7.11). The requirement for a final agreed, post-consent WSI is included in the dML as follows: Schedule 8, Part 2, Condition 21; Schedule 9, Part 2, Condition 21; Schedule 10, Part 2, Condition 21.	N
NFOWFS3_054_118_140723	A Protocol for Archaeological Discoveries will be developed to record objects of possible archaeological interest that are recovered during ground operation works (Section 5.2.4). This approach seems appropriate to deal with unexpected discoveries, but the detail will need to be presented in subsequent documents.	Project Description	The approach to investigation and mitigation is set out in the Outline WSI (Offshore) (Document Refence: 7.11). The requirement for a final agreed, post-consent WSI is included in the dML as follows: Schedule 8, Part 2, Condition 21;	N

			Schedule 9, Part 2, Condition 21; Schedule 10, Part 2, Condition 21.	
NFOWFS3_054_119_140723	Comments in relation to the Geoarchaeological Desk-Based Assessment (Volume 3, Appendix 25.6) (Document Reference 004340607-01) This document presents the findings of the desk-based geoarchaeological assessment, describing the main deposits present within the Scheme area. The transects shown in Figures 7 to 9 highlight where there are gaps in our current understanding that need to be targeted during subsequent phases of evaluation. We are pleased to see the limitations of the existing data were noted, in particular the apparent absence of alluvial deposits in the existing BGS boreholes (Section 6.1.7).	Onshore Archaeology and Cultural Heritage	Noted. The GBDA has been updated and reissued (Appendix 25.6, Volume III) with the results of new data obtained from recent geoarchaeological monitoring of GI works (Appendix 25.9, Volume III) and geoarchaeological investigations at the onshore substation works area (Appendix 25.12, Volume III).	N
NFOWFS3_054_120_140723	The limitations in the information available has meant that the archaeological and palaeoenvironmental potential of several of the key units is not currently known (Table 6).	Onshore Archaeology and Cultural Heritage	Additional ground investigation works have since been completed as part of the evaluation works and can be viewed in Appendix 25.12 (Volume III).	N
NFOWFS3_054_121_140723	We are pleased to see that geophysical survey techniques, such as Electrical Resistivity Tomography have been considered to investigate subsurface structures and lithological changes (Section 8.2.4). This work will add valuable information to the deposit model being developed for the site.	Onshore Archaeology and Cultural Heritage	Noted.	Z

NFOWFS3_054_122_140723	It is stated in Section 8.1.3 that 'Should GI works be undertaken within the Scheme, monitoring of these GI works may address some aims of the evaluation and may negate the need for further purposive geoarchaeological evaluation'. It should be noted that GI works may not always target areas of archaeological or palaeoenvironmental interest and so would recommend that purposive geoarchaeological works are carried out as well as GI works.	Onshore Archaeology and Cultural Heritage	Additional ground investigation works have since been completed as part of the evaluation works and can be viewed in Appendix 25.12 (Volume III). While GI work does not always target areas of archaeological or palaeoenvironmental interest, it does target areas of potential disturbance, and consequently provides a strong basis for the blended approach set out in the PEI.	N
NFOWFS3_054_123_140723	Table 7 summarises the recommended methods of evaluation for each of the Geoarchaeological Characterisation Zones (GCZs) and includes deep boreholes and test pits up to 4m below ground level (bgl).	Onshore Archaeology and Cultural Heritage	Noted.	N
NFOWFS3_054_124_140723	Comments in relation to the Archaeological Geophysical Survey (Volume 3, Appendix 25.8) (Document Reference 004593847-04) We welcome the geophysical survey that is currently being undertaken over the onshore substation area and onshore cable route, and presented in Volume 3, Appendix 25.8. We recognise the geophysical survey is a major piece of work, comprising a magnetometer survey of 580 hectares. We welcome the data sharing agreement for the collection of this data.	Onshore Archaeology and Cultural Heritage	Approximately 85% of the onshore project area has been subject to geophysical survey. Gaps in the data relate to areas where survey was not suitable or where access was not available. The results are summarised in Section 25.5.4.1 and presented in full in Appendix 25.8 (Volume III)	N
NFOWFS3_054_125_140723	The results of the geophysical data collected to date, are presented in Volume 3, Appendix 25.8: Archaeological Geophysical Survey Report and summarised in 25.5.4 of Volume 1, Chapter 25. We note the geophysical survey presented as part of the PEIR is incomplete.	Onshore Archaeology and Cultural Heritage	Approximately 85% of the onshore project area has been subject to geophysical survey. Gaps in the data relate to areas where survey was not suitable or where access was not available. The results are summarised in Section 25.5.4.1 and presented	N

			in full in Appendix 25.8 (Volume III)	
NFOWFS3_054_126_140723	Following the completion of the geophysical survey the outstanding survey results will be incorporated into the ES submitted with the final DCO application (Paragraph 160 of Volume 1, Chapter 25).	Onshore Archaeology and Cultural Heritage	Approximately 85% of the onshore project area has been subject to geophysical survey. Gaps in the data relate to areas where survey was not suitable or where access was not available. The results are summarised in Section 25.5.4.1 and presented in full in Appendix 25.8 (Volume III)	N
NFOWFS3_054_127_140723	The geophysical survey was carried out across a range of environments and deposit types, which may include waterlogged deposits near water channels or in marshes. It would be useful for the completed survey report to state if any areas would benefit from the use of alternative geophysical approaches.	Ground Conditions and Contamination	Approximately 85% of the onshore project area has been subject to geophysical survey. Gaps in the data relate to areas where survey was not suitable or where access was not available. The results are summarised in Section 25.5.4.1 and presented in full in Appendix 25.8 (Volume III)	N
NFOWFS3_054_128_140723	The results of the geophysical survey should be tested with trial-trenching evaluation. We note, for example, that the geophysical survey has, in a number of locations, failed to define potential archaeological features recorded as cropmarks by air photography.	Onshore Archaeology and Cultural Heritage	The results of Phase 1 and Phase 2 evaluations at the onshore substation works area are presented in Appendix 25.10 and 25.11 (Volume III) Additional survey methods will be implemented if required following detailed design. The evaluation at the onshore substation works area demonstrated that the previous geophysical and aerial photography survey were	N

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			largely accurate, with the majority of features recorded by the non-intrusive surveys identified during the evaluation. The National Mapping Programme data was shown to be inaccurate. However if the NMP data was relocated to align with the geophysical and aerial photography surveys it is far more accurate, suggesting that the inaccuracy is due to the errors in georectification of the NMP data rather than any insufficiency in more recent field survey.	
NFOWFS3_054_129_140723	For example, EHER no. 3162, is the remains of a possible barrow in Tendring parish (Chapter 25, Table 25.12; Appendix 25.2, Annex D, APS_09), detected as a ring ditch cropmark (and depicted as a tumulus on early maps). It was not, however, detected by geophysical survey (area EOT 1). Similarly, EHER no. 3189, two doubleditched oval enclosures recorded as cropmarks, also in Tendring parish, were not detected by geophysical survey (TGN_01).	Onshore Archaeology and Cultural Heritage	The results of Phase 1 and Phase 2 evaluations at the onshore substation works area are presented in Appendix 25.10 and 25.11 (Volume III) Additional survey methods will be implemented if required following detailed design. The evaluation at the onshore substation works area demonstrated that the previous geophysical and aerial photography survey were largely accurate, with the majority of features recorded by the non- intrusive surveys identified during the evaluation. The National Mapping Programme data was shown to be inaccurate. However if the NMP data was relocated to align with the geophysical and	N

			aerial photography surveys it is far more accurate, suggesting that the inaccuracy is due to the errors in georectification of the NMP data rather than any insufficiency in more recent field survey.	
NFOWFS3_054_130_140723	We would recommend that other geophysical techniques should be also undertaken, for example, resistivity survey and ground penetrating radar, where appropriate, to produce greater clarity where subsurface features are indicated that might be betterdefined using others survey techniques. The results of these surveys should be also presented in the DCO application.	Onshore Archaeology and Cultural Heritage	The results of Phase 1 and Phase 2 evaluations at the onshore substation works area are presented in Appendix 25.10 and 25.11 (Volume III) Additional survey methods will be implemented if required following detailed design. The evaluation at the onshore substation works area demonstrated that the previous geophysical and aerial photography survey were largely accurate, with the majority of features recorded by the non-intrusive surveys identified during the evaluation. The National Mapping Programme data was shown to be inaccurate. However if the NMP data was relocated to align with the geophysical and aerial photography surveys it is far more accurate, suggesting that the inaccuracy is due to the errors in georectification of the NMP data rather than any insufficiency in more recent field survey.	N .

NFOWFS3_054_131_140723	Comments in relation to Schedule of Mitigation (Document Reference No: 004754982-02) We note the detail regarding mitigation and monitoring for offshore and intertidal archaeology and cultural heritage within Table 2.9. These are in general appropriate, but it would be useful for adherence to a PAD to be included with mitigation for the construction phase. Additionally, further detail should be provided in an Outline (Offshore) WSI and it must be demonstrated how these will be secured through the Outline (Offshore) WSI, DCO, and dMLs.	Offshore Archaeology and Cultural Heritage	The approach to investigation and mitigation is set out in the Outline WSI (Offshore) (Document Refence: EN010119/APP/7.11). The requirement for a final agreed, postconsent WSI is included as condition xxx of the dML.	N
NFOWFS3_054_132_140723	Summary Thank you for consulting Historic England on this PEIR for the North Falls Offshore Windfarm Project. We welcome the work that has been undertaken to assess the impact of the scheme on the historic environment, and the ongoing discussion with stakeholders. We acknowledge the proposed scheme preliminary design is ongoing and will continue to be influenced by environmental factors to avoid or reduce effects.	Project Description	The applicant notes the response and thanks Historic England for their ongoing engagement throughout the preapplication and consultation processes. Noted.	N
NFOWFS3_054_133_140723	As set out in our detailed advice above, we have made a number of comments and recommendations about various aspects of the project, and the chapters and annexes relating to the historic environment. We would like to see these recommendations addressed and we would be pleased to provide further, and continuing, advice in future meetings and in advance of the submission of the ES.	Introduction	The applicant notes the response and thanks Historic England for their ongoing engagement throughout the preapplication and consultation processes. Noted.	N