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Acronyms & Terminology

Abbreviations / Acronyms

Abbreviation / Acronym	Description	
DCO	Development Consent Order	
ECC	Export Cable Corridor	
EMF	Electromagnetic fields	
HEA	Habitat Regulations Assessment	
HRA	Habitat Regulation Assessment	
INNS	Invasive Non-Native Species	
LSE	Likely Significant Effect	
MMMP	Marine Mammal Mitigation Protocol	
MPCP	Marine Pollution Contingency Plan	
ODOW	Outer Dowsing Offshore Wind (The Project)	
ORCP	Offshore Reactive Compensation Platform	
PEMP	Project Environmental Management Plan	
PTS	Permanent Threshold Shifts	
RAMSAR		
RIAA	Report to Inform Appropriate Assessment	
SAC	Special Area of Conservation	
SPA	Special Protection Area	

Terminology

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Term	Definition	
The Applicant	GT R4 Ltd. The Applicant making the application for a DCO. The Applicant is	
	GT R4 Limited (a joint venture between Corio Generation, Total Energies and	
	Gulf Energy Development (GULF)), trading as Outer Dowsing Offshore Wind.	
	The Project is being developed by Corio Generation (a wholly owned Green	
	Investment Group portfolio company), TotalEnergies and GULF.	
Baseline	The status of the environment at the time of assessment without the	
	development in place.	
Development Consent	An order made under the Planning Act 2008 granting development consent	
Order (DOC)	for a Nationally Significant Infrastructure Project (NSIP) from the Secretary of	
	State (SoS) for Department for Energy Security and Net Zero (DESNZ).	
Effect	Term used to express the consequence of an impact. The significance of an	
	effect is determined by correlating the magnitude of the impact with the	
	sensitivity of the receptor, in accordance with defined significance criteria.	
Export Cables	High voltage cables which transmit power from the Offshore Substations	
	(OSS) to the Onshore Substation (OnSS) via an Offshore Reactive	
	Compensation Platform (ORCP) if required, which may include one or more	
	auxiliary cables (normally fibre optic cables).	
Habitats Regulations	A process which helps determine likely significant effects and (where	
Assessment (HRA)	appropriate) assesses adverse impacts on the integrity of European	
	conservation sites and Ramsar sites. The process consists of up to four stages	
	of assessment: screening, appropriate assessment, assessment of alternative	



Term	Definition
	solutions and assessment of imperative reasons of over-riding public interest
	(IROPI) and compensatory measures
Impact	An impact to the receiving environment is defined as any change to its
	baseline condition, either adverse or beneficial
Intertidal	The area between Mean High Water Springs (MHWS) and Mean Low Water
	Springs (MLWS)
Mitigation	Mitigation measures are commitments made by the Project to reduce and/or
	eliminate the potential for significant effects to arise as a result of the Project.
	Mitigation measures can be embedded (part of the project design) or
	secondarily added to reduce impacts in the case of potentially significant
	effects
Offshore Export Cable	The Offshore Export Cable Corridor (Offshore ECC) is the area within the
Corridor (ECC)	Order Limits within which the export cables running from the arrayArray Area
	to landfall will be situated.
Offshore Reactive	A structure attached to the seabed by means of a foundation, with one or
Compensation Platform	more decks and a helicopter platform (including bird deterrents) housing
(ORCP)	electrical reactors and switchgear for the purpose of the efficient transfer of
	power in the course of HVAC transmission by providing reactive
	compensation
Outer Dowsing Offshore	The Project.
Wind (ODOW)	
The Planning Inspectorate	The agency responsible for operating the planning process for Nationally
	Significant Infrastructure Projects (NSIPs).
The Project	Outer Dowsing Offshore Wind including proposed onshore and offshore
	infrastructure.
Receptor	A distinct part of the environment on which effects could occur and can be
	the subject of specific assessments. Examples of receptors include species
	(or groups) of animals or plants, people (often categorised further such as
	'residential' or those using areas for amenity or recreation), watercourses etc



1 Matrix Key

- 1. Evidence for, or against, adverse effects on designated site qualifying features and Adverse Effect on Integrity (AEoI) is detailed within the footnotes to the integrity matrices.
- √ = Potential for AEoI identified for this feature / effect
- X = No potential for AEoI identified for this feature / effect
- C = Construction
- O = Operation and Maintenance
- D = Decommissioning
- Effect not relevant to feature (no potential for pathway)



2 Index to Matrices

2. This appendix presents the screening matrices for Outer Dowsing Offshore Wind Farm (ODOW, hereafter 'the Project') promoted by Outer Dowsing Offshore Wind (hereafter 'the Applicant') in accordance with the structure and format specific in the Planning Inspectorate Advice Note 10 (August 2022, version 9).

Table 2.1 Details on all Matrices included in this Appendix

Matrix	Site included in the assessment
Matrix 1	North Norfolk Sandbanks and Saturn Reef SAC
Matrix 2	Inner Dowsing, Race Bank, and North Ridge Sac
Matrix 3	The Wash and North Norfolk Coast SAC
Matrix 4	Humber Estuary RAMSAR
Matrix 5	Gibraltar Point RAMSAR
Matrix 6	Berwickshire and North Northumberland Coast SAC
Matrix 7	Moray Firth SAC
Matrix 8	Southern North Sea SAC
Matrix 9	Humber Estuary SAC and RAMSAR
Matrix 10	The Wash and North Norfolk Coast SAC
Matrix 11	Transboundary sites for Harbour and Grey Seals (12 sites)
Matrix 12	Greater Wash SPA
Matrix 13	Humber Estuary RAMSAR
Matrix 14	Humber Estuary SPA
Matrix 15	North Norfolk Coast SPA
Matrix 16	Gibraltar Point RAMSAR
Matrix 17	Gibraltar Point SPA
Matrix 18	The Wash RAMSAR
Matrix 19	The Wash SPA
Matrix 20	Flamborough and Filey Coast SPA
Matrix 21	Alde-Ore Estuary RAMSAR
Matrix 22	Alde-Ore Estuary SPA
Matrix 23	Coquet Island SPA
Matrix 24	Farne Islands SPA
Matrix 25	Forth Islands SPA
Matrix 26	Humber Estuary SAC
Matrix 27	River Derwent SAC
Matrix 28	Humber Estuary SPA
Matrix 29	Humber Estuary RAMSAR
Matrix 30	Saltfleetby- Theddlethorpe Dunes & Gibraltar Point SAC
Matrix 31	The Wash SPA
Matrix 32	The Wash RAMSAR
Matrix 33	The Wash & North Norfolk Coast SAC
Matrix 34	Greater Wash SPA
Matrix 35	Gibraltar Point SPA
Matrix 36	Gibraltar Point RAMSAR



Matrix	Site included in the assessment	
Matrix 37	North Norfolk SPA	
Matrix 38 North Norfolk RAMSAR		



3 Matrix Effects Considered

3. The effects on designated sites which are assessed within the Report to Inform Appropriate Assessment (RIAA) for the Habitats Regulation Assessment (HRA) of Outer Dowsing Offshore Wind, are those screened in for a potential Likely Significant Effect (LSE) within the Screening Report (Document Reference 7.2). These are listed out within Table 3.1 below:

Table 3.1: Designated Sites and Impacts considered for assessment within the RIAA

Designations	Impacts Considered in Matrices
Subtidal and intertidal benthic ecology	
North Norfolk Sandbanks and Saturn Reef	Suspended sediment/ deposition
SAC	Indirect pollution
	Accidental pollution
	Invasive Non-Native Species (INNS)
	Changes to physical processes
	In-combination
Inner Dowsing Sandbanks and Saturn	Physical habitat loss/ disturbance
Reef SAC	Suspended sediment/ deposition
	Indirect pollution
	Accidental pollution
	Invasive Non-Native Species (INNS)
	Changes to physical processes
	Electromagnetic fields (EMF)
	In-combination
The Wash and North Norfolk Coast SAC	Suspended sediment/ deposition
	Indirect pollution
	Accidental pollution
	Invasive Non-Native Species (INNS)
	Changes to physical processes
	In-combination
Humber Estuary Ramsar	Suspended sediment/ deposition
	Indirect pollution
	Accidental pollution
	Invasive Non-Native Species (INNS)
	Changes to physical processes
	In-combination
Humber Estuary SAC	Suspended sediment/ deposition
	Indirect pollution
	Accidental pollution
	Invasive Non-Native Species (INNS)
	Changes to physical processes
	In-combination
Gibraltar Point Ramsar	Suspended sediment/ deposition
	Indirect pollution
	Accidental pollution



Designations	Impacts Considered in Matrices
5	Invasive Non-Native Species (INNS)
	Changes to physical processes
	In-combination
The Wash Ramsar	Suspended sediment / deposition
The Wash Namsar	Indirect pollution
	Accidental pollution
	·
	Invasive Non-Native Species (INNS)
	Changes to physical processes
Marino Mammals	In-combination
Marine Mammals Southern North Sea SAC	Hademuston noise
Southern North Sea SAC	Underwater noise
	Vessel disturbance
	Collision risk
	Indirect pollution
	Accidental pollution
	Habitat loss
	Changes to prey
	In-combination effects
Humber Estuary SAC and RAMSAR	Underwater noise
	Vessel disturbance
	Changes to prey
	Disturbance at haul out
	Collision risk
	In-combination effects
Berwickshire and North Northumberland	Underwater noise
Coast SAC	Vessel disturbance
	Changes to prey
	Collision risk
	In-combination effects
The Wash and North Norfolk Coast SAC	Underwater noise
	Vessel disturbance
	Changes to prey
	Collision risk
	In-combination effects
Moray Firth SAC	Underwater noise
•	Vessel disturbance
	Collision Risk
	Changes to prey
	In-combination effects
Transboundary sites for seals (12 sites)	Underwater noise
(12 3163)	Vessel disturbance
	Changes to prey
	Collision Risk
	In-combination effects
Offshore and intertigal arnithology	in combination effects
Offshore and intertidal ornithology	



Designations	Impacts Considered in Matrices
Greater Wash SPA	Direct disturbance and displacement due to work
	activity and vessel movements in both the offshore
	and intertidal zones
	Direct disturbance and displacement due to the
	presence of the ORCP
	Direct disturbance and displacement due to the
	presence of turbines
	Collision risk
	Barrier effects due to the presence of turbines
	Indirect impacts through effects on habitats and prey
	species
Humber Estuary Ramsar	Collision risk
Humber Estuary SPA	Collision risk
North Norfolk Coast SPA	Collision risk
	Barrier effects due to the presence of turbines
Gibraltar Point Ramsar	Collision risk
	Barrier effects due to the presence of turbines
Gibraltar Point SPA	Collision risk
	Barrier effects due to the presence of turbines
The Wash Ramsar	Collision risk
	Barrier effects due to the presence of turbines
The Wash SPA	Collision risk
	Barrier effects due to the presence of turbines
Flamborough and Filey Coast SPA	Direct disturbance and displacement due to work
	activity and vessel movements in both the offshore
	and intertidal zones
	Direct disturbance and displacement due to the
	presence of turbines
	Collision risk
	Barrier effects due to the presence of turbines
Alde-Ore Estuary Ramsar	Collision risk
Alde-Ore Estuary SPA	Collision risk
Coquet Island SPA	Direct disturbance and displacement due to work
	activity and vessel movements in both the offshore
	and intertidal zones
	Direct disturbance and displacement due to the
	presence of turbines
Farne Islands SPA	Direct disturbance and displacement due to work
	activity and vessel movements in both the offshore
	and intertidal zones
	Direct disturbance and displacement due to the
	presence of turbines
	Collision risk



Designations	Impacts Considered in Matrices
St Abb's Head to Fast Castle SPA	Direct disturbance and displacement due to work activity and vessel movements in both the offshore and intertidal zones Direct disturbance and displacement due to the presence of turbines Collision risk Barrier effects due to the presence of turbines
Forth Islands SPA	Direct disturbance and displacement due to work activity and vessel movements in both the offshore and intertidal zones Direct disturbance and displacement due to the presence of turbines Collision risk
Fowlsheugh SPA	Direct disturbance and displacement due to work activity and vessel movements in both the offshore and intertidal zones Direct disturbance and displacement due to the presence of turbines Collision risk Barrier effects due to the presence of turbines
Buchan Ness to Collieston Coast SPA	Direct disturbance and displacement due to work activity and vessel movements in both the offshore and intertidal zones Direct disturbance and displacement due to the presence of turbines Collision risk Barrier effects due to the presence of turbines
Troup, Pennan and Lion's Heads SPA	Direct disturbance and displacement due to work activity and vessel movements in both the offshore and intertidal zones Direct disturbance and displacement due to the presence of turbines Collision risk Barrier effects due to the presence of turbines
East Caithness Cliffs SPA	Direct disturbance and displacement due to work activity and vessel movements in both the offshore and intertidal zones Direct disturbance and displacement due to the presence of turbines Collision risk Barrier effects due to the presence of turbines
North Caithness Cliffs SPA	Direct disturbance and displacement due to work activity and vessel movements in both the offshore and intertidal zones



5 :	OFFSHORE WIND
Designations	Impacts Considered in Matrices
	Direct disturbance and displacement due to the
	presence of turbines
	Collision risk
	Barrier effects due to the presence of turbines
Copinsay SPA	Direct disturbance and displacement due to work
	activity and vessel movements in both the offshore
	and intertidal zones
	Direct disturbance and displacement due to the
	presence of turbines
	Collision risk
	Barrier effects due to the presence of turbines
Hoy SPA	Direct disturbance and displacement due to work
	activity and vessel movements in both the offshore
	and intertidal zones
	Direct disturbance and displacement due to the
	presence of turbines
	Collision risk
	Barrier effects due to the presence of turbines
Calf of Eday SPA	Direct disturbance and displacement due to work
	activity and vessel movements in both the offshore
	and intertidal zones
	Direct disturbance and displacement due to the
	presence of turbines
	Collision risk
	Barrier effects due to the presence of turbines
Rousay SPA	Direct disturbance and displacement due to work
Nousay Si A	activity and vessel movements in both the offshore
	and intertidal zones
	Direct disturbance and displacement due to the
	presence of turbines Collision risk
NA	Barrier effects due to the presence of turbines
Marwick Head SPA	Direct disturbance and displacement due to work
	activity and vessel movements in both the offshore
	and intertidal zones
	Direct disturbance and displacement due to the
	presence of turbines
	Collision risk
	Barrier effects due to the presence of turbines
Fair Isle SPA	Direct disturbance and displacement due to work
	activity and vessel movements in both the offshore
	and intertidal zones
	Direct disturbance and displacement due to the
	presence of turbines
	Collision risk



Designations	Impacts Considered in Matrices
	Barrier effects due to the presence of turbines
West Westray SPA	Direct disturbance and displacement due to work
	activity and vessel movements in both the offshore
	and intertidal zones
	Direct disturbance and displacement due to the
	presence of turbines
	Collision risk
	Barrier effects due to the presence of turbines
Sumburgh Head SPA	Direct disturbance and displacement due to work
-	activity and vessel movements in both the offshore
	and intertidal zones
	Direct disturbance and displacement due to the
	presence of turbines
	Collision risk
	Barrier effects due to the presence of turbines
Noss SPA	Direct disturbance and displacement due to work
	activity and vessel movements in both the offshore
	and intertidal zones
	Direct disturbance and displacement due to the
	presence of turbines
	Collision risk
	Barrier effects due to the presence of turbines
Foula SPA	Direct disturbance and displacement due to work
Toula SFA	activity and vessel movements in both the offshore
	and intertidal zones
	Direct disturbance and displacement due to the
	presence of turbines
	Collision risk
Harmanass Cava Vard and Valla Field CDA	Barrier effects due to the presence of turbines
Hermaness, Saxa Vord and Valla Field SPA	Direct disturbance and displacement due to work
	activity and vessel movements in both the offshore
	and intertidal zones
	Direct disturbance and displacement due to the
	presence of turbines
	Collision risk
NATA AND AND COMPANY	Barrier effects due to the presence of turbines
Migratory fish	Underwater noise
Humber Estuary SAC	Underwater noise,
Onshara asalagu	In-combination effects
Onshore ecology	Dick of disturbance / displacement
Humber Estuary SPA	Risk of disturbance/ displacement,
	Loss of foraging, roosting and nesting habitat for birds
	outside the SPA,
	Risk of pollution
Humber Estuary Ramsar Site	Loss of estuary habitats,



Designations	Impacts Considered in Matrices
Designations	Risk of disturbance /displacement,
	Loss of foraging and roosting habitat for birds outside
	the Ramsar site,
	Risk of pollution
Saltfleetby-Theddlethorpe Dunes &	·
Gibraltar Point SAC	Disturbance of species
distriction of the state	Risk of pollution
The Wash SPA	Risk of disturbance/ displacement,
The Wash Si A	Loss of foraging, roosting and nesting habitat,
	Risk of pollution
The Wash Ramsar Site	Risk of loss or damage to habitats,
The Wash Namsar Site	Risk of disturbance/displacement,
	Loss of foraging, roosting and nesting habitat,
	Risk of pollution,
The Wash & North Norfolk Coast SAC	Risk of loss or damage to habitats,
	Risk of disturbance
	Loss of foraging, roosting and nesting habitat,
	Reduction of habitat quality,
	Displacement of otter and reduction of otter habitat
Greater Wash SPA	Risk of loss of or damage to habitats,
	Risk of disturbance/displacement,
	Loss of foraging, roosting and nesting habitat,
	Risk of pollution
Gibraltar Point SPA	Risk of disturbance/displacement,
	Loss of foraging, roosting and nesting habitat,
	Risk of pollution
Gibraltar Point Ramsar Site	Risk of loss of or damage to habitats
	Risk of disturbance
	Loss of foraging, roosting and nesting habitat,
	Risk of pollution
	Loss or decline in populations of scarce invertebrates
	and plants
North Norfolk SPA	Risk of disturbance/displacement,
	Loss of foraging, roosting and nesting habitat
North Norfolk Ramsar	Risk of disturbance/displacement,
	Loss of foraging, roosting and nesting habitat



3.1 Sites Designated with Subtidal and Intertidal Benthic Ecology Features

Matrix 1: North Norfolk Sandbanks and Saturn Reef SAC

Name of designated site: Site Code: Closest Distance to Project Likely Effects of Project	North Norfolk Sandbanks and UK0030358 6.0 km to array area / 6.85.9				17. <u>8</u> 7 kn	n to ECC ,	/ 0.0 km	to ANS /	<u>44.2</u> 39.	5 km to b	oiogenic r	eef / <u>72.</u>	<u>63</u> 69.6k	m to OR	CP				
Effect	Susper deposi	nded sedi tion	ment /	Indirec	t pollutio	on	Accide	ntal poll	ution	INNS			Change proces	es to phy ses	sical	In-con	nbination	effects	
Stage of Development		С	0	D	С	0	D	С	0	D	С	0	D	С	0	D	С	0	D
Reefs		Хa		Хa	Хb	Хb	Хb	Хb	Хb	Хb	Хс	Хс	Хс	Χd	Χd	Χd	Хe	Хe	Хe
Sandbanks which are slightly the time	Xa		Хa	Хb	Хb	Хb	Хb	Хb	Хb	Хс	Хс	Хс	Xd	Xd	Xd	Хe	Хe	Хе	

Evidence supporting conclusions

- Due to the short-term and temporary nature of the construction and decommissioning works, the reversibility of effect, recoverability of receptors, localised nature of effects and distance between the high concentration areas and the designated sites, and with consideration of relevant mitigation there is no potential for AEoI.
- With consideration of the PEMP and supporting MPCP, we have concluded that there is no pathway for effect and therefore no potential for AEoI.
- XC Based on the lack of evidence of any adverse effect from INNS and offshore windfarms and consideration of the PEMP, there is no potential for AEoI.
- Xd Any changes in seabed morphology are not considered likely to influence the overall form and function of the system and there is no potential for AEoI.
- Xe There is no physical overlap with the designated site or its features, and with consideration that no AEoI was concluded for any potential impact in the alone assessment we therefore conclude no pathway for AEoI in-combination.



Matrix 2: Inner Dowsing, Race Bank, and North Ridge SAC

Name of designated site: Site Code: Closest Distance to Project Likely Effects of Project	UK00:	30370	g, Race			J		<u>a</u> / 0.0 l	km to E(CC / 30.	0 km to	ANS / 0).0 km t	o bioge	nic reef	/ 0.0_kr	n to OR	СР						
Effect		cal habi disturb		sedim	Suspended sediment / deposition			ct pollu	ition	Accide pollut			INNS			Chang	ges to pl sses	nysical	EMF			In-con effects	nbinatio S	on
Stage of Development	С	0	D	С	0	D	С	0	D	С	0	D	С	0	D	С	0	D	С	0	D	С	0	D
Reefs	Хe	Хe	Хe	Хa		Хa	Хb	Хb	Хb	Хb	Хb	Χb	Хс	Хс	Хс	Хd	Хd	Χd		Χg		Χh	Χh	Χh
Sandbanks which are slightly covered by sea water all of the time	1 '	Χf	Χf	Хa		Хa	Хb	Хb	Хb	Хb	Хb	Хb	Хс	Хс	Хс	Хd	Xd	Хd		Хg		Χi	Χi	Χi

Evidence supporting conclusions

- Due to the short-term and temporary nature of the construction and decommissioning works, the reversibility of effect, recoverability of receptors, localised nature of effects and distance between the high concentration areas and the designated sites, and with consideration of relevant mitigation there is no potential for AEoI.
- This consideration of the PEMP and supporting MPCP it has been concluded that there is no pathway for effect and therefore no potential for AEoI.
- XC Based on the lack of evidence of any adverse effect from INNS and offshore windfarms and consideration of the PEMP, there is no potential for AEoI.
- Any changes in seabed morphology are not considered likely to influence the overall form and function of the system, with this designated site being viewed as having moderate potential to accommodate the proposed changes, it is therefore concluded there is no potential for AEoI.
- A Biogenic Reef Mitigation Plan which comprises micrositing works in addition to confirmation that none of the protected features vulnerable to the impact fall within the export cable corridor means that there will be no physical habitat loss or disturbance. Furthermore, considering the short-term and temporary nature of the construction and decommissioning, reversibility of effect and localised nature of impacts it is concluded that there is no potential for AEoI.
- Given the small footprint of the export cable corridor / cables, short-term and temporary nature of the construction and decommissioning, reversibility of effect and localised nature of impacts in addition to the fact the cabling will be removed at the end of the operational life of the project therefore meaning any impacts are temporary, there is no potential for AEoI.
- Xq As the cables will be buried, any behavioural responses are concluded to be mitigated to a negligible level and there is no potential for AEoI.
- Xh There will be no interaction between the project and this feature, therefore there is no pathway for effect.
- With consideration of the medium to high recoverability of the communities of the sandbank features, and the embedded mitigation for the Project to redistribute any removed sediment back within the SAC (to support the recovery of the physical sandbanks), and the ongoing sediment transport to the SAC, it is expected that the sandbank features will recover within a short (1 2 years) timeframe. There is, therefore, no potential for AEoI on the feature



Matrix 3: The Wash and North Norfolk Coast SAC

Name of designated site: Site Code: Closest Distance to Project Likely Effects of Project	UK001	7075	lorth Norfo			<u>G area</u> / 1	3.4 km to	ECC / 50. <u>5</u>	4 km to AN	IS / <u>8.7 0.(</u>	-km to bi	ogenic ree	f / 19.3_kr	n to ORCP				
Effect	Suspended sediment / Indirect pollution														bination e	ffects		
Stage of Development	С	0	D	С	0	D	С	0	D	С	0	D	С	0	D	С	0	D
Sandbanks which are slightly covered by sea water all of the time	Ха		Ха	Хb	Хb	Хb	Хb	Хb	Хb	Хс	Хс	Хс	Хd	Хd	Хd	Хe	Хе	Хe
Mudflats and sandflats not covered by seawater at low tide	Ха		Ха	Хb	Хb	Хb	Хb	Хb	Хb	Хс	Хс	Хс	Xd	Xd	Xd	Хе	Хе	Хe
Large shallow inlets and bays	Хa		Хa	Хb	Хb	Хb	Хb	Хb	Хb	Хс	Хс	Хс	Хd	Хd	Χd	Хe	Хe	Хe
Reefs	Ха		Хa	Хb	Хb	Хb	Хb	Хb	Хb	Хс	Хс	Хс	Хd	Хd	Xd	Хe	Хe	Хe
Salicornia and other annuals colonizing mud and sand	Хa		Ха	Хb	Хb	Хb	Хb	Хb	Хb	Хс	Хс	Хс	Xd	Xd	Xd	Хе	Хе	Хe
Atlantic salt meadows (Glauco- Puccinellietalia maritimae)	Ха		Ха	Хb	Хb	Хb	Хb	Хb	Хb	Хс	Хс	Хс	Xd	Xd	Xd	Хe	Хе	Хe

Evidence supporting conclusions

- Due to the short-term and temporary nature of the construction and decommissioning works, the reversibility of effect, recoverability of receptors, localised nature of effects and distance between the high concentration areas and the designated sites, and with consideration of relevant mitigation, there is no potential for AEoI.
- Yb On consideration of the PEMP and supporting MPCP it has been concluded that there is no pathway for effect and therefore no potential for AEol.
- XC Based on the lack of evidence of any adverse effect from INNS and offshore windfarms and consideration of the PEMP, there is no potential for AEoI.
- Xd Any changes in seabed morphology are not considered likely to influence the overall form and function of the system and there is no potential for AEoI.
- There is no physical overlap with the designated site or its features, and with consideration that no AEoI was concluded for any potential impact in the alone assessment we therefore conclude no pathway for AEoI in-combination.



Matrix 4: Humber Estuary Ramsar

Name of designated site: Site Code: Closest Distance to Project Likely Effects of Project	UK110	31 (663)	y Ramsar <u>y area / </u> 5		array <u>WT</u>	<u>G area</u> / 1	2. <u>5</u> 4 km t	o ECC / 4	7.5 km to	ANS / <u>20.</u>	. <u>918.2</u> km	ı to bioge	nic reef /	1 <u>8.7</u> 5.3k	m to ORC	Р		
Effect	Suspe	nded sed ition	iment /	Indired	ct pollutio	on	Accide	ntal pollu	tion	INNS			Chang	es to phys	sical	In-com	nbination	effects
Stage of Development	С	0	D	С	0	D	С	0	D	С	0	D	С	0	D	С	0	D
Dune systems with humid dune slacks	Хa		Хa	Хb	Хb	Хb	Хb	Хb	Хb	Хс	Хс	Хс	Хd	Хd	Xd	Хe	Хe	Хe
Estuarine waters	Хa		Хa	Хb	Хb	Хb	Хb	Хb	Хb	Хс	Хс	Хс	Хd	Χd	Χd	Хe	Хe	Хe
Intertidal mud and sand flats	Хa		Хa	Хb	Хb	Хb	Хb	Хb	Хb	Хс	Хс	Хс	Хd	Χd	Χd	Хe	Хe	Хe
Saltmarshes	Хa		Хa	Хb	Хb	Хb	Хb	Хb	Хb	Хс	Хс	Хс	Χd	Χd	Χd	Хe	Хe	Хe
Coastal brackish/saline lagoons	Хa		Хa	Хb	Хb	Хb	Хb	Хb	Хb	Хс	Хс	Хс	Xd	Хd	Хd	Хe	Хe	Хe

Evidence supporting conclusions

- Due to the short-term and temporary nature of the construction and decommissioning works, the reversibility of effect, recoverability of receptors, localised nature of effects and distance between the high concentration areas and the designated sites, and with consideration of relevant mitigation there is no potential for AEoI.
- This consideration of the PEMP and supporting MPCP it has been concluded that there is no pathway for effect and therefore no potential for AEoI.
- Xc Based on the lack of evidence of any adverse effect from INNS and offshore windfarms and consideration of the PEMP, there is no potential for AEoI.
- Xd Any changes in seabed morphology are not considered likely to influence the overall form and function of the system and there is no potential for AEoI.
- Xe No pathway for in-combination effects to arise



Matrix 5: Humber Estuary SAC

Name of designated site:	Humbe	r Estuary	SAC <mark>Ram</mark>	sar														
Site Code:	UK <u>0030</u>)170 1103 :	1 (663)															
Closest Distance to Project	<u>54.4 km</u>	to array	<u>area /</u> 54	4.4 km to	array WT0	<u>area</u> / 1	8. <u>95</u> km to	ECC / 47	7.5 km to	ANS / 2 <u>4.</u>	3 .8 km to	biogenic	reef / <u>23</u>	<u>.8 <mark>19.7</mark>km</u>	to ORCP			
Likely Effects of Project																		
Effect	Suspend	ded sedim	nent /	Indired	t pollutio	n	Accider	ntal pollu	tion	INNS			Change	es to phys	ical	In-con	nbination	effects
	deposition processes												ses					
Stage of Development	С	0	D	С	0	D	С	0	D	С	0	D	С	0	D	С	0	D
Dune systems with humid dune	Хa		Хa	Χb	Хb	Χb	Хb	Хb	Хb	Хс	Хс	Хс	Χd	Χd	Χd	Хe	Хe	Хe
slacks <u>Estuaries</u>																		
Estuarine waters Mudflats and sandflats not	Хa		Хa	Хb	Хb	Хb	Хb	Хb	Хb	Хс	Хс	Хс	Χd	Χd	Χd	Хe	Хe	Хe
covered by seawater at low tide																		
Intertidal mud and sand flatsSandbanks	Хa		Хa	Хb	Хb	Χb	Хb	Хb	Хb	Хс	Хс	Хс	Χd	Χd	Χd	Хe	Хe	Хe
which are slightly covered by sea wataer all																		
the time																		
Salicornia and other annuals colonizing mud	Хa		Хa	Хb	Хb	Хb	Хb	Хb	Хb	Хс	Хс	Хс	Χd	Χd	Χd	Хe	Хe	Хe
and sandSaltmarshes																		
Coastal brackish/saline lagoonsAtlantic salt	Хa		Хa	Хb	Хb	Хb	Хb	Хb	Хb	Хс	Хс	Хс	Χd	Χd	Χd	Хe	Хe	Хe
meadows																		

Evidence supporting conclusions

- Due to the short-term and temporary nature of the construction and decommissioning works, the reversibility of effect, recoverability of receptors, localised nature of effects and distance between the high concentration areas and the designated sites, and with consideration of relevant mitigation there is no potential for AEoI.
- This consideration of the PEMP and supporting MPCP it has been concluded that there is no pathway for effect and therefore no potential for AEoI.
- XC Based on the lack of evidence of any adverse effect from INNS and offshore windfarms and consideration of the PEMP, there is no potential for AEoI.
- Xd Any changes in seabed morphology are not considered likely to influence the overall form and function of the system and there is no potential for AEoI.
- Xe No pathway for in-combination effects to arise



Matrix 6: Gibraltar Point Ramsar

Name of designated site: Site Code: Closest Distance to Project Likely Effects of Project	UK110	ar Point Ra 27 (589) n to array a		. <u>9</u> 4 km to	array WTG	<u>area</u> / 13.	<u>4</u> 3 km to [ECC / 70. <u>6</u>	₅ km to Al	NS / 1 <u>1.76</u>	km to bio	ogenic ree	f / 19.3_km	to ORCP				
Effect	· ·	Suspended sediment / Indirect pollution deposition					Accider	ntal polluti	on	INNS			Change	es to physi ses	cal	In-com	ibination e	effects
Stage of Development	С	0	D	С	0	D	С	0	D	С	0	D	С	0	D	С	0	D
Estuarine mudflats	Хa		Хa	Хb	Хb	Хb	Хb	Хb	Хb	Хс	Хс	Хс	Хd	Хd	Хd	Хe	Хe	Хe
Sandbanks	Хa		Ха	Хb	Хb	Хb	Хb	Хb	Хb	Хс	Хс	Хс	Χd	Χd	Хd	Хе	Хe	Хe
Saltmarsh	Хa		Хa	Хb	Хb	Хb	Хb	Хb	Хb	Хс	Хс	Хс	Χd	Хd	Хd	Хе	Хe	Хe
Dunes	Хa		Хa	Хb	Хb	Хb	Хb	Хb	Хb	Хс	Хс	Хс	Xd	Χd	Хd	Хе	Хe	Хe

Evidence supporting conclusions

- Due to the short-term and temporary nature of the construction and decommissioning works, the reversibility of effect, recoverability of receptors, localised nature of effects and distance between the high concentration areas and the designated sites, and with consideration of relevant mitigation there is no potential for AEoI.
- This consideration of the PEMP and supporting MPCP it has been concluded that there is no pathway for effect and therefore no potential for AEoI.
- XC Based on the lack of evidence of any adverse effect from INNS and offshore windfarms and consideration of the PEMP, there is no potential for AEoI.
- Xd Any changes in seabed morphology are not considered likely to influence the overall form and function of the system and there is no potential for AEoI.
- Xe No pathway for in-combination effects to arise



Matrix 7: The Wash Ramsar

Name of designated site: Site Code: Closest Distance to Project Likely Effects of Project	UK1107			2 3.1 km to	array WTG	<u>area</u> / 1 <u>6</u> 3	}. <u>5</u> ⊋ km to	ECC / 7 <u>4.(</u>	<u>)0.5</u> km to) ANS / <u>13.</u>	. <u>8-1.6</u> km t	o biogeni	c reef / <u>22</u>	<mark>87</mark> 19.3kı	n to ORCF)		
Effect	Suspended sediment / Indirect pollution deposition						Accident	tal pollutio	n	INNS			Change	s to physic es	cal	In-com	bination e	ffects
Stage of Development	С	0	D	С	0	D	С	0	D	С	0	D	С	0	D	С	0	D
Estuarine mudflatsSatImarshes	Хa		Хa	Хb	Хb	Хb	Хb	Хb	Хb	Хс	Хс	Хс	Χd	Хd	Χd	Хe	Хe	Хe
Sandbanks Estuaries	Хa		Хa	Хb	Хb	Хb	Хb	Хb	Хb	Хс	Хс	Хс	Xd	Хd	Xd	Хe	Хe	Хe
Major intertidal banks of sand and mudSaltmarsh	Ха		Ха	Хb	Хb	Хb	Хb	Хb	Хb	Хс	Хс	Хс	Xd	Xd	Xd	Хе	Хe	Хе
Shallow water Dunes	Хa		Хa	Хb	Хb	Хb	Хb	Хb	Хb	Хс	Хс	Хс	Xd	Хd	Χd	Хe	Хe	Хe
Deep channels																		

Evidence supporting conclusions

- Due to the short-term and temporary nature of the construction and decommissioning works, the reversibility of effect, recoverability of receptors, localised nature of effects and distance between the high concentration areas and the designated sites, and with consideration of relevant mitigation there is no potential for AEoI.
- This consideration of the PEMP and supporting MPCP it has been concluded that there is no pathway for effect and therefore no potential for AEoI.
- XC Based on the lack of evidence of any adverse effect from INNS and offshore windfarms and consideration of the PEMP, there is no potential for AEoI.
- Xd Any changes in seabed morphology are not considered likely to influence the overall form and function of the system and there is no potential for AEoI.
- Xe No pathway for in-combination effects to arise



3.2 Sites Designated with Marine Mammal Features

Matrix 8: Berwickshire and North Northumberland Coast SAC

Name of designated site:	Berwicks	hire and No	rth Northur	mberland Co	ast SAC										
Site Code:	UK00 <u>170</u>)72 30395													
Closest Distance to Projec	t <u>260.4 kn</u>	n to Array Ai	rea (WTG) /	260. <u>7</u> 4 km t	o array<u>Array</u>	(WTG) WTG	area / 26 <u>4.5</u>	2.0 km to EC	C / 23 <u>5</u> 2. <u>7</u> 6 l	km to ANS / 2	. <u>62.8<mark>59.2</mark> k</u> r	n to biogen	ic reef / 26	<mark>7.2 <mark>2.0</mark>km to</mark>	o ORCP
(Offshore)															
Likely Effects of Project															
Effect	Underwa	ater noise		Vessel d	listurbance		Collisio	n risk		Change	s to prey		In-con	nbination e	ffects
Stage of Development	С	0	D	С	0	D	С	0	D	С	0	D	С	0	D
Grey Seal	Хa	Хa	Хa	Хb	Хb	Хb	Хb	Хb	Хb	Хс	Хс	Хс	Xd	Xd	Χd

Evidence supporting conclusions

- Ya The MMMP suitably minimises the risk of injury or mortality impacting this feature during construction and decommissioning activities that produce underwater noise. Operational and Maintenance underwater noise is considered to be negligible due to consistent proximity required to have any impact and the extent of low level noise produced by operational windfarms. Therefore it has been concluded that the project will not have AEoI on this feature.
- It has been concluded that the increase in vessel movements caused by any stage of the project is not sufficient to cause a change in mortality, injury or significant disturbance with consideration of the current levels of vessel movements from shipping and other activities. Therefore there is no potential for AEoI.
- We conclude that underwater noise, vessel disturbance/collision and pollution are negligible risk to prey, with consideration of the PEMP, MMMP and adoption of a Vessel Management Plan this is further reduced. Overall there is no potential of AEoI via this impact.
- Xd With consideration of the implementation of the MMMP, and conclusions that there will be no AEoI in the assessment alone (as above), we conclude there is no potential AEoI for in-combination impacts.



Matrix 9: Moray Firth SAC

Name of designated site: Site Code: Closest Distance to Project (Offshore) Likely Effects of Project	UK0	ray Firth SAC 0019808 .7 km to Array Area	a <u>/ 5</u> 3	7.3 <mark>15.</mark>	0 km	to array<u>Array (WTG</u>	} WTG area	/ <u>546.9</u> 5	25.5 km to	o ECC / <u>512</u>	<u>.1</u> 4 87.0 km	to ANS / 5 <u>4</u>	14.1 <mark>21.2</mark>	km to bioger	nic reef	⁻ / 5 <u>549.0 <mark>25.5</mark></u> km to ORCP
Effect	Und	lerwater noise		Vess	el dis	turbance		Collision	n risk		Changes	to prey		In-comb	ination	effects
Stage of Development	С	0	D	С	0	D		С	0	D	С	0	D	С	0	D
Bottlenose dolphin	Хa	Ха	Хa	Χb	Χb	Хb		Χb	Хb	Хb	Хс	Хс	Хс	Xd	Χd	Xd

Evidence supporting conclusions

- With consideration of the population densities and distance from the designated site in additional to the nature of potential impact being short-term and temporary it is concluded that there was negligible potential of AEoI as a result of underwater noise production. Operational and Maintenance underwater noise is considered to be negligible due to consistent proximity required to have any impact and the extent of low level noise produced by operational windfarms and therefore support the assessment of no AEoI.
- Xb Due to the significant distance from the site it is considered that there is a negligible potential for AEoI for this impact.
- We conclude that underwater noise, vessel disturbance/collision and pollution are negligible risk to prey, with consideration of the PEMP, MMMP and adoption of a Vessel Management Plan this is further reduced. Overall, there is no potential of AEoI via this impact.
- Xd With consideration of the significant distance from the site and conclusion of no AEoI alone, we conclude there is no potential for AEoI in-combination.



Matrix 10: Southern North Sea SAC

Name of designated site: Site Code: Closest Distance to Project (Offshore) Likely Effects of Project	UK003	30395	rth Sea ray Area		m to ar	ray<u>Arra</u>	y (WTC	S) WTG :	<u>area</u> / 1	.1 km to	o ECC /	0.0 km	to ANS	/ 3 <u>6.0</u>	4.7 km t	o bioge	nic ree	f / 4 <u>8.2</u>	_ 2.3 km	to ORCI	,			
Effect	Habita	at Loss		Unde	rwater i	noise	Vesse	el distur	bance	Collisi	ion risk		Indire	ct poll	ution	Accide pollut			Chang	ges to p	rey	In-cor effect		on
Stage of Development	С	0	D	С	0	D	С	0	D	С	0	D	С	0	D	С	0	D	С	0	D	С	0	D
Harbour porpoise	Хa	Хa	Хa	Хb	Хb	Хb	Хс	Хс	Хс	Хс	Хс	Хс	Χd	Χd	Хd	Χd	Χd	Χd	Хe	Хe	Хe	Χf	Χf	Χf

Evidence supporting conclusions

Χa

- The MMMP suitably minimises the risk of injury or mortality impacting this feature during construction and decommissioning activities that produce underwater noise. Operational and Maintenance underwater noise is considered to be negligible due to consistent proximity required to have any impact and the extent of low level noise produced by operational windfarms. Therefore it has been concluded that the project will not have AEoI on this feature.
- It has been concluded that the increase in vessel movements caused by any stage of the project is not sufficient to cause a change in mortality, injury or significant disturbance with consideration of the current levels of vessel movements from shipping and other activities and Vessel Management Plan that will be adopted. Therefore there is no potential for AEoI.
- Xd With the development of a MPCP which will form part of the wider PEMP and be part of its implementation there is no potential for AEoI via this effect.
- We conclude that underwater noise, vessel disturbance/collision and pollution are negligible risk to prey, with consideration of the PEMP, MMMP and adoption of a Vessel Management Plan this is further reduced. Overall there is no potential of AEoI via this impact.
- Xf No pathway for in-combination effects to arise.



Matrix 11: Humber Estuary SAC and RAMSAR

Name of designated site: Humber Estuary SAC and RAMSAR Site Code: UK0030170 and UK11031 (663)

Closest Distance to Project 54.4 km to Array Area / 54.4 km to array Array (WTG) WTG area / 18.95 km to ECC / 47.5 km to ANS / 24.3.8 km to biogenic reef / 49.23.8 7km to ORCP

(offshore) SAC

Closest Distance to Project 54.04 km to Array Area / 54.04 km to Array (WTG) WTG area / 12.5 km to ECC / 47.5 km to ANS / 20.9 km to biogenic reef / 18.7 km to ORCP

(offshore) RAMSAR

Likely Effects of Project

Effect	Underwa	ater noise		Vessel dis	sturbance		Collision	risk		Changes	to prey		Disturbar	nce at haul	out	In-comb	oination e	ffects
Stage of Development	С	0	D	С	0	D	С	0	С	С	0	D	С	0	D	С	0	D
Grey seal	Хa	Хa	Хa	Хb	Хb	Хb	Хb	Хb	Хb	Хс	Хс	Хс	Хb	Хb	Хb	Χd	Χd	Хd

Evidence supporting conclusions

- The MMMP suitably minimises the risk of injury or mortality impacting this feature during construction and decommissioning activities that produce underwater noise. Operational and Maintenance underwater noise is considered to be negligible due to consistent proximity required to have any impact and the extent of low level noise produced by operational windfarms. Therefore it has been concluded that the project will not have AEoI on this feature.
- It has been concluded that the increase in vessel movements caused by any stage of the project is not sufficient to cause a change in mortality, injury or significant disturbance with consideration of the current levels of vessel movements from shipping and other activities. Therefore there is no potential for AEoI.
- We conclude that underwater noise, vessel disturbance/collision and pollution are negligible risk to prey, with consideration of the PEMP, MMMP and adoption of a Vessel Management Plan this is further reduced. Overall there is no potential of AEOI via this impact.
- Xd With consideration of the implementation of the MMMP, and conclusions that there will be no AEoI in the assessment alone (as above), we conclude there is no potential AEoI for in-combination impacts.



Matrix 12: The Wash and North Norfolk Coast SAC

Name of designated site: Site Code: Closest Distance to Project (offshore) Likely Effects of Project	UK0017	075	th Norfolk C rea / 4 <u>7.8</u> 8.		ray <u>Array (\</u>	VTG) WTG :	<u>area</u> / 13.4	km to ECC	C / 50. <u>5</u> 4 km	to ANS / §	8 <u>.70.0</u> km to	o biogenic	reef / 19.3	km to OR(СР
Effect	Underw	ater noise		Vessel di	sturbance		Collision	risk		Changes	to prey		In-comb	ination eff	ects
Stage of Development	С	0	D	С	0	D	С	0	С	С	0	D	С	0	D
Harbour seal	Хa	Хa	Хa	Хb	Хb	Хb	Хb	Хb	Хb	Хс	Хс	Хс	Χd	Xd	Xd

Evidence supporting conclusions

- The MMMP suitably minimises the risk of injury or mortality impacting this feature during construction and decommissioning activities that produce underwater noise. Operational and Maintenance underwater noise is considered to be negligible due to consistent proximity required to have any impact and the extent of low level noise produced by operational windfarms. Therefore it has been concluded that the project will not have AEoI on this feature.
- It has been concluded that the increase in vessel movements caused by any stage of the project is not sufficient to cause a change in mortality, injury or significant disturbance with consideration of the current levels of vessel movements from shipping and other activities. Therefore there is no potential for AEoI.
- We conclude that underwater noise, vessel disturbance/collision and pollution are negligible risk to prey, with consideration of the PEMP, MMMP and adoption of a Vessel Management Plan this is further reduced. Overall there is no potential of AEoI via this impact.
- Xd With consideration of the implementation of the MMMP, and conclusions that there will be no AEoI in the assessment alone (as above), we conclude there is no potential AEoI for in-combination impacts.



Matrix 13: Transboundary sites for Harbour and Grey seals (12 sites)

Name of designated site: Site Code:	Various	5	es for Harl	oour and Gi	rey seals (1	2 sites)									
Closest Distance to Project	Various	5													
Likely Effects of Project Effect	Underv	vater noise		Vessel	disturbance	e	Collisio	on risk	_	Change	es to prey	_	In-com	bination ef	fects
Stage of Development	С	0	D	С	0	D	С	0	D	С	0	D	С	0	D
Bancs de Flandres SCA;	Ха	Хa	Хa	Хb	Хb	Хb	Хb	Хb	Хb	Хс	Хс	Хс	Хd	Хd	Xd
Doggersbank (Netherlands) SAC;	Хa	Хa	Хa	Хb	Хb	Хb	Хb	Хb	Хb	Хс	Хс	Хс	Χd	Χd	Xd
Klaverba <u>n</u> k SCI;	Ха	Хa	Хa	Хb	Хb	Хb	Хb	Хb	Хb	Хс	Хс	Хс	Χd	Χd	Xd
Noordzeekustone SCI;	Хa	Хa	Хa	Хb	Хb	Хb	Хb	Хb	Хb	Хс	Хс	Хс	Χd	Χd	Xd
SBZ 1 SCI;	Хa	Хa	Хa	Хb	Хb	Хb	Хb	Хb	Хb	Хс	Хс	Хс	Χd	Χd	Xd
SBZ 2 SCI;	Ха	Хa	Хa	Хb	Хb	Хb	Хb	Хb	Хb	Хс	Хс	Хс	Χd	Χd	Xd
SBZ 3 SCI;	Ха	Хa	Хa	Хb	Хb	Хb	Хb	Хb	Хb	Хс	Хс	Хс	Χd	Χd	Xd
Vlaamse Banke <u>n</u> d SCI;	Ха	Хa	Хa	Хb	Хb	Хb	Хb	Хb	Хb	Хс	Хс	Хс	Χd	Χd	Xd
Vlakte van de Raan SCI;	Ха	Хa	Хa	Хb	Хb	Хb	Хb	Хb	Хb	Хс	Хс	Хс	Χd	Χd	Xd
Voordelta SCI;	Ха	Хa	Хa	Хb	Хb	Хb	Хb	Хb	Хb	Хс	Хс	Хс	Χd	Χd	Xd
Waddenzee SCI; and	Ха	Хa	Хa	Хb	Хb	Хb	Хb	Хb	Хb	Хс	Хс	Хс	Хd	Хd	Xd
Westerschelde & Saeftinghe SCI.	Ха	Хa	Хa	Хb	Хb	Хb	Хb	Хb	Хb	Хс	Хс	Хс	Хd	Хd	Xd

Evidence supporting conclusions

- The MMMP suitably minimises the risk of injury or mortality impacting this feature during construction and decommissioning activities that produce underwater noise. Operational and Maintenance underwater noise is considered to be negligible due to consistent proximity required to have any impact and the extent of low level noise produced by operational windfarms. Therefore it has been concluded that the project will not have AEoI on this feature.
- It has been concluded that the increase in vessel movements caused by any stage of the project is not sufficient to cause a change in mortality, injury or significant disturbance with consideration of the current levels of vessel movements from shipping and other activities. Therefore there is no potential for AEoI.
- We conclude that underwater noise, vessel disturbance/collision and pollution are negligible risk to prey, with consideration of the PEMP, MMMP and adoption of a Vessel Management Plan this is further reduced. Overall there is no potential of AEoI via this impact.
- Xd With consideration of the implementation of the MMMP, and conclusions that there will be no AEoI in the assessment alone (as above), we conclude there is no potential AEoI for in-combination impacts.



3.3 Sites Designated with Offshore and Intertidal Ornithology Features

Matrix 14: Greater Wash SPA

Name of designated site:	oreater wash size				
Site Code: Closest	UK9020329 km to Array Area / 24.8 km to WTG area .	/ 0.0 km to ECC / 24.0 km to	ANS / 0.0 km to biogenic reef / 0.0	-km to ORCP	
Distance to					
<u>Project</u> Closest Distance to	24.8 km to Array Area / 24.86 km to a	rray <u>Array (WTG)WTG area</u> /			
Project					
Effect	Direct disturbance and Direct	ect disturbance and	Direct disturbance and displace	cement Collision risk due to the presence of turbines	i In
		placement due to the	due to the presence of the ORCP		combinati
	activity and vessel movements pre in both the offshore and	esence of turbines			On
	intertidal zones				
Effect			rbance and displacement due to		
		activity and and intertide	vessel movements in both the o	ffshore the presence of turbines	and displacement llis
		und intertior	ar zones		due to the io :
					ORCP ris
					<u>k</u> <u>t</u>
					<u>du</u> <u>!</u>
					<u>e</u> !
					<u>+</u>
					<u>e</u> :
					<u>pr</u>
					<u>es</u> :
					<u>ee</u>
					<u> </u>
					<u>tu</u>
					rbi
					<u>ne</u>
lame of designated si	ite <u>Greater Wash SPA</u>				2
Closest Distance to Pro	<u> 24.8 km to Array Area / 24.8 km to</u>	o WTG area / 0.0 km to ECC /	24.0 km to ANS / 0.0 km to bioger	nic reef / 0.0 km to ORCP	
ikely effects of Projec					
<u>Effect</u>	Direct disturbance and displacement			irect disturbance and displacement due to the present	
	vessel movements in both the offs	snore and intertidal zones	displacement due to the presence of turbines	f the ORCP	risk due to the
			presence or turbines		uie



Name of designated Grea site:	iter Wash SPA														
												prese	ence		
												of tu	bines		
Stage of Development	С	0	D	С	0	D	<u>C</u>	<u>O</u>	<u>D</u>	С	0	D	С	0	D
Common scoter	Ха	Хa	Хa	Хa	Хa	Хa		<u>Xe</u>			X ε		X <u>c</u> d	X <u>c</u> d	Х <u>с</u>
															d
Little gull	Xb	Xb	Xb	Xb	Xb	Xb					X <u>b</u> €		Xe	X <u>d</u> e	Xe
Red-throated diver	Хa	Хa	Хa	Хa	Хa	Хa		<u>Xf</u>			X €		X <u>c</u> d	X <u>c</u> d	Χ <u>c</u>
															d
Little tern	Xb	Xb	Xb	Xb	Xb	Xb					X <u>b</u> ∈		Xe	X <u>d</u> e	Xe
Common tern	Xb	Xb	Xb	Xb	Xb	Xb					X <u>b</u> ∈		Xe	X <u>d</u> e	
Sandwich tern	Xb	Xb	Xb	Xb	Xb	Xb					X <u>b</u> ∈		Xe	X <u>d</u> e	

Evidence supporting conclusions

- The impact has been concluded to be a negligible increase in mortality. With consideration that the effects are short-term, temporary and reversible, with birds anticipating on returning at the end of construction works should they be displaced during them. Therefore there is no potential for AEoI for this species.
- The potential effects are considered to be short term, temporary and reversible, with birds anticipating on returning at the end of construction works should they be displaced during them. Therefore there is no potential for AEoI for this species.
- X b∈ With consideration of the significant projected low impact of collision risk on migratory species we conclude this impact will have no impact on baseline mortality and therefore no AEoI.
- With consideration of the low levels of disturbance and negligible numbers impacted, meaning that there would need to ~40 similar projects to cause a change in baseline, we conclude no potential for AEOI on this designated site and species in-combination.
- X de As above, considering the negligible levels of impact to migratory birds when considered alone, we conclude no potential for AEoI in-combination.
- <u>Ye</u> <u>Due to the lack of spatial overlap between the common scoter feature and the ORCP, any potential impact from the presence of the ORCP will not adversely affect the integrity of the Greater Wash SPA in relation to its conservation objectives. In particular, the density of common scoter is very low and this species has much higher utilisation in other inshore areas of the SPA</u>
- With consideration of no measureable displacement effect predicted from the presence of the ORCPs and if a small scale effect were to occur it would fall wholly within the existing displacement effects from the Lincs OWF, there is no AEOI predicted for this species.



Matrix 15: Humber Estuary Ramsar

Name of designated site: Site Code: Closest Distance to Project Likely Effects of Project	Humber Estuar UK11031 (663) <u>54.0 km to Arra</u>		ay (WTG) WTG area / 12. <u>5</u> 4 l	km to ECC / 47.5 km to ANS /	20.9 <mark>18.2</mark> km to biogenic reef	² / 1 <u>8.75.3</u> km to ORCP
Effect	Collision risk du	ue to the presence of turbine	S	In-combination		
Stage of Development	С	0	D	С	0	D
European golden plover		Хa			Хa	
Red knot		Ха			Ха	
Dunlin		Ха			Ха	
Black-tailed godwit		Ха			Ха	
Common redshank		Ха			Ха	
Common shelduck		Ха			Ха	
Bar-tailed godwit		Ха			Ха	

Evidence supporting conclusions

With consideration of the significant projected low impact of collision risk on migratory species we conclude this impact will have no impact on baseline mortality and therefore no AEOI alone or incombination.



Matrix 16: Humber Estuary SPA

Name of designated site: Site Code:	Humber Estuary UK9006111	SPA				
Closest Distance to Project Likely Effects of Project	54.0 km to Array	Area / 54.0 km to array Array (W	TG) WTG area / 12. <u>5</u> 4 km to	ECC / 47.5 km to ANS / <u>20.9</u> 18	.2 km to biogenic reef / 1 <u>8.76</u> 5.	3 km to ORCP
Effect	Collision risk due	to the presence of turbines		In-combination		
Stage of Development	D	0	D	С	0	D
Avocet		Xa			Ха	
Bar-tailed godwit		Xa			Ха	
Bittern		Ха			Ха	
Black-tailed godwit		Ха			Ха	
Dunlin		Ха			Ха	
Golden plover		Ха			Ха	
Hen harrier		Ха			Ха	
Knot		Ха			Ха	
Little tern		Ха			Ха	
Marsh harrier		Ха			Ха	
Redshank		Ха			Ха	
Ruff		Ха			Ха	
Shelduck		Ха			Ха	
Pink-footed goose		Xa			Xa	
Wigeon		Хa			Ха	
Ringed plover		Ха			Ха	
Curlew		Ха			Ха	
Sanderling		Ха			Ха	
Oystercatcher		Ха			Xa	
Dark-bellied brent goose		Ха			Ха	
Mallard		Ха			Ха	
Pochard		Ха			Ха	
Goldeneye		Ха			Ха	
Scaup		Ха			Ха	

Evidence supporting conclusions

With consideration of the significant projected low impact of collision risk on migratory species we conclude this impact will have no impact on baseline mortality and therefore no AEoI alone or incombination.



Matrix 17: North Norfolk Coast SPA

Name of designated site: Site Code:	North Norfolk Coast SPA UK9009031					
Closest Distance to Project		7-2 km to arrayArray (WTG) W	TG area / 29.9 km to ECC / 59.0	km to ANS / 16.09-8 km to bio	genic reef / 31.4 km to ORCP	
Likely Effects of Project	<u> </u>	7712 NIII 60 array <u>raray (1770) a</u>	<u>10 0.00</u> / 23.3 Mil to 200 / 33.0	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Being reer / 3211 mm to 31161	
Effect	Collision risk due to the prese	ence of turbines		In-combination		
Stage of Development	D	0	D	С	0	D
Dark-bellied brent goose		Ха			Ха	
Eurasian marsh harrier		Ха			Ха	
Eurasian wigeon		Ха			Ха	
Great bittern		Ха			Xa	
Pied avocet		Ха			Ха	
Pink-footed goose		Ха			Ха	
Red knot		Ха			Xa	
Sandwich tern		Xa			Xa	
Common tern		Xa			Xa	
Little tern		Xa			Xa	
Assemblage features		Ха			Xa	

Evidence supporting conclusions

With consideration of the projected low impact of collision risk on migratory species we conclude this impact will have no impact on baseline mortality and therefore no AEoI alone or in-combination.



Matrix 18: Gibraltar Point Ramsar

Name of designated site: Site Code: Closest Distance to Project Likely Effects of Project	Gibraltar Point Rams UK11027 (589) 62.9 km to Array Are		ay (WTG) WTG area / 13. <u>43</u> km	to ECC / 70. <u>65</u> km to ANS / 1 <u>1</u>	<u>.7.6</u> km to biogenic reef / 19.3 l	km to ORCP
Effect	Collision risk due to t	the presence of turbines		In-combination		
Stage of Development	С	0	D	С	0	D
Grey plover		Ха			Хa	
Sanderling		Ха			Хa	
Dark-bellied brent goose		Ха			Ха	
Bar-tailed godwit		Ха			Ха	

Evidence supporting conclusions

With consideration of the projected low impact of collision risk on migratory species we conclude this impact will have no impact on baseline mortality and therefore no AEoI alone or in-combination.



Matrix 19: Gibraltar Point SPA

Triatrix 13. Gibrartar 1 Girlt 3170						
Name of designated site:	Gibraltar Poir	nt SPA				
Site Code:	UK9008022					
Closest Distance to Project	<u>62.9 km to A</u> ı	rray Area / 62.9 3.1 km to ar	rayArray (WTG) WTG area	/ 13.43 km to ECC / 70.65	km to ANS / 1 <u>1</u> . 76 km to bi	ogenic reef / 19.3 km to ORCP
Likely Effects of Project						
Effect	Collision risk	due to the presence of turb	ines	In-combination	on	
Stage of Development	С	0	D	С	0	D
Grey plover		Хa			Хa	
Sanderling		Ха			Ха	
Little Tern		Ха			Ха	
Bar-tailed godwit		Ха			Ха	

Evidence supporting conclusions

With consideration of the projected low impact of collision risk on migratory species we conclude this impact will have no impact on baseline mortality and therefore no AEoI alone or in-combination.



Matrix 20: The Wash Ramsar

Name of designated site: Site Code: Closest Distance to Project Likely Effects of Project	The Wash Ramsar UK11072 (395) 66. <u>3</u> 5 km to array <u>Array A</u>	<u>rea</u> / 16. <u>5</u> 4 km to ECC / 74.0	km to ANS / <u>1</u> 3.8 km to biog	enic reef / 22. <mark>87</mark> km to ORCF		
Effect	Collision risk due to the p	resence of turbines		In-combination		
Stage of Development	С	0	D	С	0	D
Eurasian oystercatcher		Ха			Xa	
Grey plover		Xa			Xa	
Golden plover		<u>Xa</u>			<u>Xa</u>	
Red knot		Xa			Xa	
Sanderling		Xa			Xa	
Eurasian curlew		Xa			Xa	
Common redshank		Ха			Xa	
Ruddy turnstone		Ха			Ха	
Pink-footed goose		Ха			Ха	
Dark-bellied brent goose		Ха			Ха	
Common shelduck		Ха			Ха	
Northern pintail		Ха			Ха	
Northern lapwing		Xa			<u>Xa</u>	
Dunlin		Ха			Ха	
Bar-tailed godwit		Xa			Xa	

Evidence supporting conclusions

With consideration of the projected low impact of collision risk on migratory species we conclude this impact will have no impact on baseline mortality and therefore no AEoI alone or in-combination.



Matrix 21: The Wash SPA

Name of designated site:	The Wash SPA				
Site Code:	UK9008021				
Closest Distance to Project	66. <u>35</u> km to array <u>Array Area</u> / <u>66.3 km to</u>	<u>o Array (WTG)WTG area /</u> 16. <u>5</u> 4	4 km to ECC $/$ 74.0 km to ANS $/$ 1	3.8 km to biogenic reef /	22.87 km to ORCP
Likely Effects of Project					
Effect	Collision risk due to the presence of turb	oines	In-combination		
Stage of Development	C 0	D	C	0	D
Bar-tailed godwit	Xa			Ха	
Common scoter	Ха			Xa	
Black-tailed godwit	Ха			Xa	
Common goldeneye	Xa			Xa	
Common redshank	Ха			Xa	
Common shelduck	Ха			Xa	
Dark-bellied brent goose	Ха			Xa	
Dunlin	Xa			Ха	
Eurasian curlew	Ха			Ха	
Eurasian oystercatcher	Ха			Ха	
Eurasian wigeon	Ха			Ха	
Gadwall	Xa			Ха	
Grey plover	Xa			Ха	
Northern pintail	Xa			Ха	
Pink-footed goose	Xa			Ха	
Red knot	Xa			Ха	
Ruddy turnstone	Xa			Ха	
Sanderling	Xa			Ха	
Tundra swan	Ха			Ха	
Common tern	Ха			Ха	
Little tern	Ха			Ха	
Assemblage features	Ха			Ха	

Evidence supporting conclusions

With consideration of the projected low impact of collision risk on migratory species we conclude this impact will have no impact on baseline mortality and therefore no AEoI alone or in-combination.



Matrix 22: Flamborough and Filey Coast SPA

Name of designated site: Site Code: Closest Distance to Project Likely Effects of Project	UK90061			y <u>Array (WTC</u>	S) WTG area / 9	<u>5.9<mark>2.0</mark> km to ECC / 7</u>	' <u>0.7</u> 0.4 km	to ANS / <u>92.7</u> 88		ef / 9 <u>7.32.0</u>	km to ORCP	
Effect	work acti		novements in both			isplacement due to	Collision	risk due to the p	resence of turbines	In-combin	ation	
Stage of Development	С	0	D	С	0	D	С	0	D	С	0	D
Kittiwake								Хa			√d	
Gannet		Хa			Хa			Хa			Хb	
Herring gull								Хa			Хb	
Guillemot	Хa	Ха	Ха	Хa	Хa	Ха		Ха		Хb	Хb	Хb
Razorbill	Хa	Ха	Ха	Хa	Хa	Ха		Ха		Хb	Хс	Хb
Puffin	Хa	Хa	Ха	Хa	Хa	Ха		Хa		Хb	Хb	Хb

Evidence supporting conclusions

- Xa With consideration of the low impact of the proposed development concluding that there will be negligible impact on baseline levels of population or mortality we have concluded no AEoI. The feature will be maintained in the long term.
- With consideration that the assessment alone concluded indistinguishable impact compared to natural fluctuations in population and mortality we conclude no potential for AEoI from in-combination impacts.
- Although numbers are modelled to have a >1% impact on mortality, with consideration of baseline growth figures and variation we conclude this does not have the potential to negatively impact the feature in-combination.
- √d With consideration of the predicted mortalities in-combination being 383 birds per annum, we cannot rule out adverse effects on the integrity of the feature at this designated site.



Matrix 23: Alde-Ore Estuary Ramsar

Name of designated site:	Alde-Ore Estuary Ramsar					
Site Code:	UK11002 (862)					
Closest Distance to Project	147.3 km to Array Area / 147	. <u>3</u> 4 km to array<u>Array (WTG)</u>W	<u>TG area</u> _/ 131. <u>4</u> 3 km to ECC / 1	36.2 km to ANS / 11 <u>2</u> 0. <u>6</u> 4 km	to biogenic reef / 139.2 km to	ORCP
Likely Effects of Project						
Effect	Collision risk due to the prese	ence of turbines		In-combination		
Stage of Development	С	0	D	С	0	D
Lesser black-backed gull		Xa			Xb	

Evidence supporting conclusions

With consideration of the projected low impact of collision risk on migratory species we conclude this impact will have no impact on baseline mortality and therefore no AEoI.

With consideration that the assessment alone concluded indistinguishable impact compared to natural fluctuations in population and mortality we conclude no potential for AEoI from in-combination impacts.



Matrix 24: Alde-Ore Estuary SPA

Name of designated site: Site Code:	Alde-Ore Estuary SPA UK9009112					
Closest Distance to Project	147.3 km to Array Area / 147	'.3 km to Array (WTG) WTG are	a / 131.4 km to ECC / 136.2 km	to ANS / 112.6 km to biogenic	reef / 139.2 km to ORCP <u>147.2</u>	km to array / 131.3 km to ECC
	/ 136.2 km to ANS / 110.4 km	1 to biogenic reef / 139.2 km t o	ORCP			
Likely Effects of Project						
Effect	Collision risk due to the prese	ence of turbines		In-combination		
Stage of Development	С	0	D	С	0	D
Lesser black-backed gull		Xa			Xb	

Evidence supporting conclusions

- With consideration of the projected low impact of collision risk on migratory species we conclude this impact will have no impact on baseline mortality and therefore no AEoI.
- With consideration that the assessment alone concluded indistinguishable impact compared to natural fluctuations in population and mortality we conclude no potential for AEoI from in-combination impacts.



Matrix 25: Coquet Island SPA

Name of designated site: Site Code: Closest Distance to Project Likely Effects of Project	Coquet Island SPA UK9006031 258.6 km to Array	A <u>/ Area / </u> 258. <u>86 km to</u>	array <u>Array (WTG)</u> W	<u>「G area</u> / 2 <u>60.9</u> 58.8	km to ECC / 23 <u>3.9</u> 1.0	⊋km to ANS / 25 <u>9</u> 6. <u>8</u>	3 km to biogenic ree	f / 2 <u>63.9^{58.8} k</u> m to (ORCP		
Effect		e and displacement ments in both the of			and displacement o	due to the presence	In-combination				
Stage of Development	С	0	D	С	0	D	С	0	D		
Puffin	Ха	Ха	Ха	Ха	Ха	Xa	Хb	Хb	Xb		
Sandwich tern								Xb			
Common Tern								Хb			

Evidence supporting conclusions

With consideration of the low impact of the proposed development concluding that there will not be a significant impact on baseline levels of population or mortality we have concluded no AEoI.

With consideration that the assessment alone concluded indistinguishable impact compared to natural fluctuations in population and mortality we conclude no potential for AEoI from in-combination impacts.



Matrix 26: Farne Islands SPA

Name of designated site: Site Code: Closest Distance to Project Likely Effects of Project	Farne Islands UK9006021 285.8 km to A		5. <u>4</u> 8 km to arra	ı y<u>Array (</u>WTG) V	<u>VTG area</u> / 2 <u>91</u> .	<u>.7</u> 89.1 km to EC	C / 2 <u>61.3</u> 57.9 k	m to ANS / 28 <u>9</u>	<u>.7</u> 5.9 km to bio	genic reef / 2 <u>9</u> 4	1 <u>.2</u> 89.1 km to C	DRCP
Effect	to work activ		movements in			cement due to	Collision risk turbines	due to the	presence of	In-combinatio	on	
Stage of Development	С	0	D	С	0	D	С	0	D	С	0	D
Kittiwake								Ха			Хс	
Sandwich tern								Ха			Хс	
Common guillemot	Хb	Хb	Хb	Хb	Хb	Хb				Хс	Хс	
Puffin	Хb	Хb	Хb	Хb	Хb	Хb				Хс	Хс	

Evidence supporting conclusions

- Xa With consideration of the projected low impact of collision risk on migratory species we conclude this impact will have no impact on baseline mortality and therefore no AEoI.
- With consideration of the low impact of the proposed development concluding that there will not be a significant impact on baseline levels of population or mortality we have concluded no AEoI.
- With consideration that the assessment alone concluded indistinguishable impact compared to natural fluctuations in population and mortality we conclude no potential for AEoI from in-combination impacts.



Matrix 27: Forth Islands SPA

Name of designated site: Site Code: Closest Distance to Project Likely Effects of Project		<u>rray Area / 363</u>	.8 km to Array (to biogenic rec			ECC / 338.8 km	to ANS / 364.4	km to biogenio	reef / 368.2 km	to ORCP 363.	7 km to array /	363.4 km to ECC
Effect	work activity a		ements in both			cement due to	Collision ris turbines	k due to the	presence of	In-combinat	ion	
Stage of Development	С	0	D	С	0	D	С	0	D	С	0	D
Gannet								Ха		Хb	Хb	Хb

Evidence supporting conclusions

- With consideration of the projected low impact of collision risk on migratory species we conclude this impact will have no impact on baseline mortality and therefore no AEoI.
- With consideration that the assessment alone concluded indistinguishable impact compared to natural fluctuations in population and mortality we conclude no potential for AEoI from in-combination impacts.



Matrix 28: Buchan Ness to Collieston Coast SPA

Width 20: Buchan Ness to ed												
Name of designated site:	Buchan N	less to Colliestor	n Coast SPA									
Site Code:	<u>UK90024</u>	<u>91</u> UK9004171										
Closest Distance to Project	4 <u>56.5 km</u>	to Array Area /	<u>4</u> 5 <u>8.7 6.58 km to</u>	a rray <u>Array (\</u>	NTG) WTG area	/ 4 <u>71.8<mark>69.78</mark></u> km	to ECC / 433	. <u>778</u> km to ANS /	/ 46 <u>9.6 <mark>4.79</mark></u> km to b	iogenic ree	f / 4 <u>75.2<mark>69.78</mark></u> k	m to ORCP
Likely Effects of Project												
Effect	work acti	Direct disturbance and displacement due to work activity and vessel movements in both the presence of turbines The offshore and intertidal zones Direct disturbance and displacement due to the presence of turbines Collision risk due to the presence of turbines In-combination										
Stage of Development	С	0	D	С	0	D	С	0	D	С	0	D
Guillemot	Хb	Хb	Хb	Хb	Хb	Хb				Хс	Хс	Хс
Kittiwake								Хa		Хс	Хс	Хс

Evidence supporting conclusions

- Xa With consideration of the projected low impact of collision risk on migratory species we conclude this impact will have no impact on baseline mortality and therefore no AEoI.
- With consideration of the low impact of the proposed development concluding that any impact on baseline levels of population or mortality will be indistinguishable from natural fluctuations we have concluded no AEoI.
- With consideration that the assessment alone concluded indistinguishable impact compared to natural fluctuations in population and mortality we conclude no potential for AEoI from in-combination impacts.



Matrix 29: Calf of Eday SPA

Name of designated site: Site Code: Closest Distance to Project Likely Effects of Project	Calf of Eday <u>UK9002431</u> . <u>667.0 km to</u>	UK9004171	5 <u>9.7^{7.13} km to aı</u>	ray<u>Array (</u>WT 6	5] WTG area / 68	32. <u>2</u> 41 km to EC0	C / 645. <u>02 0</u> -kn	n to ANS / 6 <u>83.</u>	<u>0</u> 77.99 km to bio	ogenic reef ,	/ 68 <u>8.9<mark>3.51</mark></u> km	to ORCP
Effect	work activit		lacement due to evements in both zones			acement due to	Collision ris turbines	k due to th	e presence of	In-combin	nation	
Stage of Development	С	0	D	С	0	D	С	0	D	С	0	D
iuillemot	Хb	Xb	Хb	Хb	Хb	Хb				Хс	Хс	Хс
Cittiwake								Xa		Хс	Хс	Хс

Evidence supporting conclusions

- Xa With consideration of the projected low impact of collision risk on migratory species we conclude this impact will have no impact on baseline mortality and therefore no AEoI.
- With consideration of the low impact of the proposed development concluding that any impact on baseline levels of population or mortality will be indistinguishable from natural fluctuations we have concluded no AEoI.
- With consideration that the assessment alone concluded indistinguishable impact compared to natural fluctuations in population and mortality we conclude no potential for AEoI from in-combination impacts.



Matrix 30: Copinsay SPA

Name of designated site: Site Code: Closest Distance to Project Likely Effects of Project	UK900215	<u>PA</u> alf of Eday <u>1</u> UK9004171 km to array Arr		vrray (WTG) \	<u>VTG area /</u> 646.	. <u>018</u> km to ECC / 60)8.7 <u>6</u> 8-km	n to ANS / 64 <u>6.1</u> 4	18 km to biogenic r	reef / 6 <u>51.6</u>	<u>5</u> 46.57 km to OF	RCP
Effect	work activ		novements in both			splacement due to	Collision	risk due to the p	resence of turbines	In-combi	nation	
Stage of Development	С	0	D	С	0	D	С	0	D	С	0	D
Guillemot	Хb	Хb	Хb	Хb	Хb	Хb				Хс	Хс	Хс
Kittiwake								Хa		Хс	Хс	Хс

Evidence supporting conclusions

- With consideration of the significant projected low impact of collision risk on migratory species we conclude this impact will have no impact on baseline mortality and therefore no AEoI.
- With consideration of the low impact of the proposed development concluding that any impact on baseline levels of population or mortality will be indistinguishable from natural fluctuations we have concluded no AFOL
- With consideration that the assessment alone concluded indistinguishable impact compared to natural fluctuations in population and mortality we conclude no potential for AEoI from in-combination impacts.



Matrix 31: East Caithness Cliffs SPA

Name of designated site: Site Code: Closest Distance to Project Likely Effects of Project	UK900118	East Caithness Cliffs SPA UK9001182 <u>582.2 km to Array Area /</u> 58 <u>3.8</u> <u>4.60 km to array Array WTG</u> / 59 <u>3.9</u> 59 <u>3.9</u> km to ECC / 5 <u>58.6</u> 61.04 km to ANS / 5 <u>91.0</u> 89.27 km to biogenic reef / 59 <u>5.9</u> 3.17 km to ORCP												
Effect	work activ		splacement due to novements in both al zones			splacement due to	Collision ris turbines	k due to the	presence of	In-combina	ation			
Stage of Development	С	0	D	С	0	D	С	0	D	С	0	D		
Guillemot	Хb	Хb	Хb	Хb	Хb	Хb				Хс	Хс	Хс		
Kittiwake								Xa		Хс	Хс	Хс		
Razorbill	Хb	Xb Xb Xb Xb Xb Xc Xc												

Evidence supporting conclusions

V -	With consideration of the significant	t projected law impact of collicia	an rick on migratory chocies we c	ancluda thic impact will have no imp	sact on baseline mortality and therefore no AEOL
ха	with consideration of the significant	i projected low impact of collisic	on risk on migratory species we c	onciude this impact will have no imp	pact on baseline mortality and therefore no AEol.

With consideration of the low impact of the proposed development concluding that any impact on baseline levels of population or mortality will be indistinguishable from natural fluctuations we have concluded no AEoI.

With consideration that the assessment alone concluded indistinguishable impact compared to natural fluctuations in population and mortality we conclude no potential for AEoI from in-combination impacts.



Matrix 32: Fair Isle SPA

Name of designated site: Site Code: Closest Distance to Project Likely Effects of Project	Fair Isle S UK900209 675.3 km	91	_678. <u>0</u> 64 km to arra	ay<u>Array (</u>W	[G] WTG area / 6	9 <u>0.0^{3.43} km to EC</u>	C / 6 <u>54.7</u> 58.	93 km to ANS /	69 <u>5.13.26 km to l</u>	oiogenic ree	f / <u>702.3 699.70</u>	km to ORCP
Effect	work activ		splacement due to novements in both al zones			splacement due to	Collision turbines	risk due to	the presence of	In-combi	nation	
Stage of Development	С	0	D	С	0	D	С	О	D	С	0	D
Guillemot	Хb	Хb	Хb	Хb	Хb	Хb				Хс	Хс	Хс
Kittiwake								Хa		Хс	Хс	Хс
Razorbill	Хb	Хb	Хb	Хb	Хb	Хb				Хс	Хс	Хс
Puffin	Хb	Хb	Хb	Хb	Хb	Хb				Хс	Хс	Хс
Gannet								Хa		Хс	Хс	Хс

Evidence supporting conclusions

- With consideration of the significant projected low impact of collision risk on migratory species we conclude this impact will have no impact on baseline mortality and therefore no AEoI.
- With consideration of the low impact of the proposed development concluding that any impact on baseline levels of population or mortality will be indistinguishable from natural fluctuations we have concluded no AEoI.
- With consideration that the assessment alone concluded indistinguishable impact compared to natural fluctuations in population and mortality we conclude no potential for AEoI from in-combination impacts.



Matrix 33: Foula SPA

Name of designated site: Site Code: Closest Distance to Project Likely Effects of Project	Foula SPA UK900 <u>2061</u> 74 <u>9.66.73 k</u>		<u> Area / 749.5 km</u>	n to Array (WTC	∰WTG area / 76	1. <u>552</u> km to ECC	/ 726. <u>008</u> km	to ANS / 76 <u>6.1 -</u>	1.20 km to bioge	nic reef / 7 <u>73.2</u>	. 67.64 km to OF	RCP		
Effect	work activit	disturbance and displacement due to activity and vessel movements in both if shore and intertidal zones Direct disturbance and displacement due to collision risk due to the presence of turbines in both intertidal zones Collision risk due to the presence of turbines in combination in combination in combination												
Stage of Development	С	0	D	С	0	D	С	0	D	С	0	D		
Guillemot	Хb	Хb	Хb	Хb	Хb	Хb				Хс	Хс	Хс		
Kittiwake								Ха		Хс	Хс	Хс		
Razorbill	Хb	Хb	Хb	Хb	Хb	Хb				Хс	Хс	Хс		
Puffin	Хb	Хb	Хb	Хb	Хb	Хb				Хс	Хс	Хс		

Evidence supporting conclusions

- With consideration of the significant projected low impact of collision risk on migratory species we conclude this impact will have no impact on baseline mortality and therefore no AEoI.
- With consideration of the low impact of the proposed development concluding that any impact on baseline levels of population or mortality will be indistinguishable from natural fluctuations we have concluded no AEoI.
- With consideration that the assessment alone concluded indistinguishable impact compared to natural fluctuations in population and mortality we conclude no potential for AEoI from in-combination impacts.



Matrix 34: Fowlsheugh SPA

Name of designated site: Site Code: Closest Distance to Project Likely Effects of Project	Fowlsheu UK90022 42 <u>1.4</u> 1.52	71	ray Area / 423.1 km	ı to Arry (W	TG) / 43 <u>4.60.91</u>	km to ECC / 39 <u>7.9</u> -	7 .98 km to	ANS / 4 <u>31.126. </u>	70 km to biogenic r	eef / 43 <u>6.2</u>	0.91 km to ORC	Р
Effect	work activ			ements in both the presence of turbines tu					the presence of	In-combi	nation	
Stage of Development	С	0	D	С	0	D	С	0	D	С	0	D
Guillemot	Хb	Хb	Хb	Хb	Хb	Хb				Хс	Хс	Хс
Kittiwake								Хa		Хс	Хс	Хс
Razorbill	Хb	Хb	Хb	Хb	Хb	Хb				Хс	Хс	Хс

Evidence supporting conclusions

V	′ ว	With consideration of the significant projected low impact of collision risk on migratory species we conclude this impact will have no impact on baseline mortality and therefore no AEoI.
	.a	with consideration of the significant projected low impact of consisting the Albi.

With consideration of the low impact of the proposed development concluding that any impact on baseline levels of population or mortality will be indistinguishable from natural fluctuations we have concluded no AEoI.

With consideration that the assessment alone concluded indistinguishable impact compared to natural fluctuations in population and mortality we conclude no potential for AEoI from in-combination impacts.



Matrix 35: Hermaness, Saxa, Vord and Valla Field SPA

Name of designated site: Site Code: Closest Distance to Project Likely Effects of Project	UK90020:				WTG] WTG area	<u>/</u> 814. <u>762 km to E</u>	CC / 781. <u>8</u> 7	9 km to ANS / 8 <u>2</u>	2 <u>3.8</u> 19.29 km to bio	genic reef /	8 <u>3223.3</u> 26.58 k	m to ORCP
Effect	work acti	turbance and d vity and vessel i ore and intertid	movements in b				Collision	risk due to the p	oresence of turbines	In-combi	nation	
Stage of Development	С	0	D	С	0	D	С	0	D	С	0	D
Guillemot	Хb	Хb	Хb	Хb	Хb	Хb				Хс	Хс	Хс
Kittiwake								Хa		Хс	Хс	Хс
Puffin	Хb	Хb	Хb	Хb	Хb	Хb				Хс	Хс	Хс
Gannet								Хa		Хс	Хс	Хс

Evidence supporting conclusions

- Xa With consideration of the significant projected low impact of collision risk on migratory species we conclude this impact will have no impact on baseline mortality and therefore no AEoI.
- With consideration of the low impact of the proposed development concluding that any impact on baseline levels of population or mortality will be indistinguishable from natural fluctuations we have concluded no AEoI.
- With consideration that the assessment alone concluded indistinguishable impact compared to natural fluctuations in population and mortality we conclude no potential for AEoI from in-combination impacts.



Matrix 36: Hoy SPA

Name of designated site: Site Code: Closest Distance to Project Likely Effects of Project		UK9002141 63 <u>4.67.50</u> km to <u>arrayArray Area</u> / 6 <u>36.950.1 km to Array Area (WTG) / 649.9 2-km to ECC / 61<u>1.8 4.71-km</u> to ANS / 64<u>75.338</u> km to biogenic reef / 65<u>2.70.12</u> km to ORCP</u>													
Effect	work activ		splacement due to novements in both al zones		turbance and dis	splacement due to	Collision r	isk due to the p	resence of turbines	In-combi	nation				
Stage of Development	С	0	D	С	0	D	С	0	D	С	0	D			
Guillemot	Хb	Хb	Хb	Хb	Хb	Хb				Хс	Хс	Хс			
Kittiwake								Хa		Хс	Хс	Хс			
Puffin	Хb	Хb	Хb	Хb	Хb	Хb				Хс	Хс	Хс			

Evidence supporting conclusions

V -	With consideration of the significant projected lo	impact of collicion rick on migrat	stary chacias wa cancluda this imr	aact will have no impact o	an bacaling mortality and thorafore no AEGI
ха	With consideration of the significant projected lo	impact of comsion risk on migrat	itory species we conclude this imp	Jact will have no impact o	in baseline mortality and therefore no Acoi.

With consideration of the low impact of the proposed development concluding that any impact on baseline levels of population or mortality will be indistinguishable from natural fluctuations we have concluded no AEoI.

With consideration that the assessment alone concluded indistinguishable impact compared to natural fluctuations in population and mortality we conclude no potential for AEoI from in-combination impacts.



Matrix 37: Marwick Head SPA

IVIACI IX 97: IVIAI WICK FICAG 917	•														
Name of designated site:	Marwick Hea	d SPA													
Site Code:	UK9002121														
Closest Distance to Project	67 <u>0.1</u> 0.39 km	i to array Array A	<u>rea / 672.5 km</u>	<u>to Array (WTG)</u>	<u>WTG area /</u> 68 <u>5</u>	<u>.4<mark>3.89</mark></u> km to EC	C / 647. <u>5<mark>80</mark></u> km	to ANS / 683.5	78.98 km to bio	genic reef / 68	<u>9.1<mark>3.89</mark> km to O</u>	RCP			
Likely Effects of Project		39 km to array Array Area / 672.5 km to Array (WTG) WTG area / 685.43.89 km to ECC / 647.580 km to ANS / 683.578.98 km to biogenic reef / 689.13.89 km to ORCP													
Effect	work activity	ect disturbance and displacement due to Direct disturbance and displacement due to the presence of turbines In-combination The presence of turbines of the presence of turbines offshore and intertidal zones													
Stage of Development	С	0	D	С	0	D	С	0	D	С	0	D			
Guillemot	Хb	Хb	Хb	Хb	Хb	Хb				Хс	Хс	Хс			
Kittiwake								Ха		Хс	Хс	Хс			

Evidence supporting conclusions

- Xa With consideration of the significant projected low impact of collision risk on migratory species we conclude this impact will have no impact on baseline mortality and therefore no AEoI.
- With consideration of the low impact of the proposed development concluding that any impact on baseline levels of population or mortality will be indistinguishable from natural fluctuations we have concluded no AEoI.
- With consideration that the assessment alone concluded indistinguishable impact compared to natural fluctuations in population and mortality we conclude no potential for AEoI from in-combination impacts.



Matrix 38: North Caithness Cliffs SPA

Name of designated site: Site Code: Closest Distance to Project Likely Effects of Project	UK900118			2.5 km to Array	-(WTG) WTG are	ea / 6 <u>25.400.07</u>	دm to ECC / 5	37.4 <mark>69.48</mark> km to	ANS / <u>623.1</u> 596.58 k	m to bioge	enic reef / 6 <u>28.6</u>	00.07 km to ORCP
Effect	work activ	turbance and di vity and vessel r ore and intertida	novements in b				e to Collision	n risk due to the p	resence of turbines	In-combi	nation	
Stage of Development	С	0	D	С	0	D	С	0	D	С	0	D
Guillemot	Хb	Хb	Хb	Хb	Хb	Хb				Хс	Хс	Хс
Kittiwake								Ха		Хс	Хс	Хс
Puffin	Хb	Хb	Хb	Хb	Хb	Хb				Хс	Хс	Хс
Razorbill	Хb	Хb	Хb	Хb	Хb	Хb				Хс	Хс	Хс

Evidence supporting conclusions

- With consideration of the significant projected low impact of collision risk on migratory species we conclude this impact will have no impact on baseline mortality and therefore no AEoI.
- With consideration of the low impact of the proposed development concluding that any impact on baseline levels of population or mortality will be indistinguishable from natural fluctuations we have concluded no AEoI.
- With consideration that the assessment alone concluded indistinguishable impact compared to natural fluctuations in population and mortality we conclude no potential for AEoI from in-combination impacts.



Matrix 39: Noss SPA

Name of designated site: Site Code: Closest Distance to Project Likely Effects of Project	Noss SPA UK9002081 73 <u>4.5</u> 4.45 km	n to array Array <i>i</i>	Area / 736.6 km :	to Array (WTG)	<u>}WTG area /</u> 74 <u>9</u>) <u>.08.97</u> km to EC	C / 715.64 km t	co ANS / 75 <u>7.3</u> 2	.72 km to biogen	ic reef / 7 <u>65.6</u>	5 9.89 km to OR0	CP		
Effect	work activity	disturbance and displacement due to ctivity and vessel movements in both shore and intertidal zones Direct disturbance and displacement due to combination Collision risk due to the presence of turbines In-combination Collision risk due to the presence of turbines In-combination												
Stage of Development	С	0	D	С	0	D	С	0	D	С	0	D		
Guillemot	Хb	Хb	Хb	Хb	Хb	Хb				Хс	Хс	Хс		
Kittiwake								Ха		Хс	Хс	Хс		
Puffin	Хb	Хb	Хb	Хb	Хb	Хb				Хс	Хс	Хс		
Gannet								Ха		Хс	Хс	Хс		

Evidence supporting conclusions

Xa With consideration of the significant projected low impact of collision risk on migratory species we conclude this impact will have no impact on baseline mortality and therefore in the consideration of the significant projected low impact of collision risk on migratory species we conclude this impact will have no impact on baseline mortality and therefore in the consideration of the significant projected low impact of collision risk on migratory species we conclude this impact will have no impact on baseline mortality and therefore in the consideration of the significant projected low impact of collision risk on migratory species we conclude this impact will have no impact on baseline mortality and therefore in the consideration of the significant projected low impact of collision risk on migratory species we conclude this impact will have no impact on baseline mortality and therefore in the consideration of the cons	Хa	With consideration of the significant pro	piected low impact of collision risk on mig	atory species we conclude this impact will have no im	pact on baseline mortality and therefore no AEo
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With consideration of the low impact of the proposed development concluding that any impact on baseline levels of population or mortality will be indistinguishable from natural fluctuations we have concluded no AEoI.

With consideration that the assessment alone concluded indistinguishable impact compared to natural fluctuations in population and mortality we conclude no potential for AEoI from in-combination impacts.



Matrix 40: Rousay SPA

Name of designated site: Site Code:	Noss-SPA UK9004171											
Closest Distance to Project	670.667.99 kr	n to array∆rray	Area / 683. <u>3</u> 16		5. <u>8</u> 78 km to AN	<mark>S / 6<u>83.0</u>77.90 k</mark>		eef / 68 <u>8.2</u> 3.16				
Likely Effects of Project												
Effect	Direct disturb	ance and displa	cement due to	Direct disturb	ance and displa	cement due to	Collision risk d	ue to the preser	nce of turbines	In combinatio	n	
		and vessel move and intertidal zo		the presence (o f turbines							
Stage of Development	E	0	Đ	E	0	Đ	E	0	Đ	E	0	Đ
Guillemot	Xb	Xb	Xb	Xb	Xb	Xb				X €	X €	X €
Kittiwake								Xa		X €	X €	X €

Matrix 40: Rousay SPA

Name of designated site:	Noss_ SPA	<u>SPA</u>											
Site Code:													
Closest Distance to Project													
<u>Likely Effects of Project</u>													
<u>Effect</u>	Direct disturb	disturbance and displacement due to Direct disturbance and displacement due to Collision risk due to the presence of turbines In-com								In-combinatio	<u>n</u>		
	work activity	k activity and vessel movements in both the presence of turbines											
	the offshore	and intertidal zo	<u>ones</u>										
Stage of Development	<u>C</u>	<u>0</u>	<u>D</u>	<u>C</u>	<u>o</u>	<u>D</u>	<u>C</u>	<u>O</u>	<u>D</u>	<u>C</u>	<u>o</u>	<u>D</u>	
Guillemot	<u>Xb</u>	Xb Xb Xb Xb Xb											
<u>Kittiwake</u>		<u>Xa</u> <u>Xc</u> <u>Xc</u> <u>Xc</u>											

Evidence supporting conclusions

- With consideration of the significant projected low impact of collision risk on migratory species we conclude this impact will have no impact on baseline mortality and therefore no AEoI.
- With consideration of the low impact of the proposed development concluding that any impact on baseline levels of population or mortality will be indistinguishable from natural fluctuations we have concluded no AEoI.
- With consideration that the assessment alone concluded indistinguishable impact compared to natural fluctuations in population and mortality we conclude no potential for AEoI from in-combination impacts.



Matrix 410: St Abb's Head to Fast Castle SPA

Name of designated site: Site Code: Closest Distance to Project Likely Effects of Project	UK900 <u>427</u>	: Abb's Head to Fast Castle SPA K900 <u>42712511 29.8 km to Array Area / 330.329.88</u> km to array Array (WTG) WTG area / 33 <u>3</u> 1.5 <u>62</u> km to ECC / 305.230 km to ANS / 3 <u>32.428.85</u> km to biogenic reef / 33 <u>6.51.52</u> km to ORCP irect disturbance and displacement due to Direct disturbance and displacement due to Collision risk due to the presence of turbines In-combination												
Effect	work activ		splacement due to novements in both al zones		urbance and dis	splacement due to	Collision	risk due to the p	esence of turbines	In-combination				
Stage of Development	С	0	D	С	0	D	С	0	D	С	0	D		
Guillemot	Хb	Хb	Хb	Хb	Хb	Хb				Хс	Хс	Хс		
Kittiwake								Хa		Хс	Хс	Хс		
Razorbill	Хb	Хb	Хb	Хb	Хb	Хb				Хс	Хс	Хс		

Evidence supporting conclusions

- Xa With consideration of the significant projected low impact of collision risk on migratory species we conclude this impact will have no impact on baseline mortality and therefore no AEoI.
- With consideration of the low impact of the proposed development concluding that any impact on baseline levels of population or mortality will be indistinguishable from natural fluctuations we have concluded no AEoI.
- With consideration that the assessment alone concluded indistinguishable impact compared to natural fluctuations in population and mortality we conclude no potential for AEoI from in-combination impacts.



Matrix 4241: Sumburgh Head SPA

Name of designated site: Site Code: Closest Distance to Project Likely Effects of Project	Sumburgh He UK9002511 707.7 km to <i>i</i>) <u>.87.69 km to ar</u>	ray <u>Array (WTG</u>	<u>}WTG area</u> / 7 25	2. <u>103</u> km to EC	C / 68 <u>7.9 <mark>7.95</mark></u> k	km to ANS / 72 <u>9</u>	<u>.0</u> 4 .28 km to bic	ogenic reef / 7	3 1.2 <u>6.8</u> 0 km	to ORCP
Effect	work activity		ecement due to ements in both ones			ecement due to	Collision risk o	due to the prese	nce of turbines	In-combination		
Stage of Development	С	0	D	С	0	D	С	0	D	С	0	D
Guillemot	Хb	Хb	Хb	Хb	Хb	Хb				Хс	Хс	Хс
Kittiwake								Xa		Хс	Хс	Хс

Evidence supporting conclusions

- Xa With consideration of the significant projected low impact of collision risk on migratory species we conclude this impact will have no impact on baseline mortality and therefore no AEoI.
- With consideration of the low impact of the proposed development concluding that any impact on baseline levels of population or mortality will be indistinguishable from natural fluctuations we have concluded no AEoI.
- With consideration that the assessment alone concluded indistinguishable impact compared to natural fluctuations in population and mortality we conclude no potential for AEoI from in-combination impacts.



Matrix 423: Troup, Pennan and Lion's Head SPA

Name of designated site: Site Code: Closest Distance to Project Likely Effects of Project	UK900247			array <u>Array</u>	(WTG) WTG area	/ 51 <u>3.1.75</u> 7 -km to	o ECC / 47	5. <u>5765</u> km to AN	IS / 5 <u>11.506.77 km t</u>	o biogenic	reef / 51 <u>7.1</u> 4.77	km to ORCP	
Effect	work activ				Direct disturbance and displacement due to the presence of turbines			Collision risk due to the presence of turbines			In-combination		
Stage of Development	С	0	D	С	0	D	С	0	D	С	0	D	
Guillemot	Хb	Хb	Хb	Хb	Хb	Хb				Хс	Хс	Хс	
Kittiwake								Хa		Хс	Хс	Хс	
Razorbill	Хb	Xb	Хb	Хb	Хb	Xb				Хс	Хс	Хс	

Evidence supporting conclusions

٧a	With consideration of the significant projected low impact of collision risk on migratory species we conclude this impact will have no impact on baseline mortality and therefore no AEoI.
ха	With consideration of the significant projected low impact of comision risk on impacts we conclude this impact will have no impact on baseline mortality and therefore no Acoi.

With consideration of the low impact of the proposed development concluding that any impact on baseline levels of population or mortality will be indistinguishable from natural fluctuations we have concluded no AEoI.

With consideration that the assessment alone concluded indistinguishable impact compared to natural fluctuations in population and mortality we conclude no potential for AEoI from in-combination impacts.



Matrix 434: West Westray SPA

Name of designated site: Site Code: Closest Distance to Project	West West West UK900210	01	681 0 78 53 km to :	urray Array (WTG) WTG area	/ 693 681-km to FC	C / 656 1 2	36-km to ANS / 6	5 <u>93.488.58</u> km to bio	ogenic reef	/ 699 2 3.88 km	to ORCP
Likely Effects of Project	<u>070.5 KIII</u>	<u></u>	<u>001.0</u> 70.33 km to t	array <u>raray (</u>	widjwid area	, 7 033. <u>0</u> 01 km to Ee	c / 030. <u>=</u> 0	50 Km to 7 1145 / C	<u> </u>	Beilie leei	/ 03 <u>3.2</u> 3.00 km	to oner
Effect	work acti		novements in both				Collision risk due to the presence of turbines			In-combi	nation	
Stage of Development	С	0	D	С	0	D	С	0	D	С	0	D
Guillemot	Хb	Хb	Хb	Хb	Хb	Хb				Хс	Хс	Хс
Kittiwake								Ха		Хс	Хс	Хс
Razorbill	Хb	Хb	Хb	Хb	Хb	Хb				Хс	Хс	Хс

Evidence supporting conclusions

V	′ ว	With consideration of the significant projected low impact of collision risk on migratory species we conclude this impact will have no impact on baseline mortality and therefore no AEoI.
	.a	with consideration of the significant projected low impact of consisting the Albi.

With consideration of the low impact of the proposed development concluding that any impact on baseline levels of population or mortality will be indistinguishable from natural fluctuations we have concluded no AEoI.

With consideration that the assessment alone concluded indistinguishable impact compared to natural fluctuations in population and mortality we conclude no potential for AEoI from in-combination impacts.



Matrix 4<u>5</u>4: Rousay SPA

Name of designated site: Site Code: Closest Distance to Project Likely Effects of Project	Rousay Si <u>UK90023</u> <u>667.8 km</u>	<u>71</u> 8573	<u>6768.0.4</u> km to arr	ay <u>Array (W</u>	IG) WTG area / 6	583 <u>.1.2</u> km to ECC /	645. <u>5</u> 8 km	n to ANS / 6 <u>82.7</u> 3	7 7.9 km to biogenic	reef / 68 3.	<u>8.4</u> ⊋ km to ORC	P
Effect	work acti		splacement due to novements in both al zones				Collision risk due to the presence of turbines			In-combination		
Stage of Development	С	0	D	С	0	D	С	0	D	С	0	D
Guillemot	Хb	Хb	Хb	Хb	Хb	Хb				Хс	Хс	Хс
Kittiwake								Ха		Хс	Хс	Хс
Razorbill	Хb	Хb	Хb	Хb	Хb	Хb				Хс	Хс	Хс

Evidence supporting conclusions

- Xa With consideration of the significant projected low impact of collision risk on migratory species we conclude this impact will have no impact on baseline mortality and therefore no AEoI.
- With consideration of the low impact of the proposed development concluding that any impact on baseline levels of population or mortality will be indistinguishable from natural fluctuations we have concluded no AEoI.
- With consideration that the assessment alone concluded indistinguishable impact compared to natural fluctuations in population and mortality we conclude no potential for AEoI from in-combination impacts.



3.4 Sites designated with migratory fish features

Matrix 4<u>6</u>5: Humber Estuary SAC

Name of designated site: Site Code: Closest Distance to Project Likely Effects of Project	Humber Estuary S UK0030170 54.4 km to array A		/ (WTG) WTG area / 18. <u>95</u> 95 kı	n to ECC / 47.5 km to ANS / <u>2</u> 4	1 <u>.3^{23.8} k</u> m to biogenic reef / ˌ	<u>23.8 19.7km-km</u> to ORCP
Effect	Underwater noise	2		In-combination 6	effects	
Stage of Development	С	0	D	С	0	D
Sea lamprey	Ха	Ха	Ха	Хb	Хb	Хb
River lamprey	Ха	Хa	Хa	Хb	Хb	Хb

Evidence supporting conclusions

- Xa Due to the transient nature and low sensitivity of this species, and the highly localised nature of the effects it has been concluded that there is no potential for AEOI.
- Of the project identified in-combination, none are anticipated to have significant interactions with the Project (no overlap of PTS or TTS impact ranges) and any potential impacts on behaviour are intermittent, temporary and of low risk to the species given their lack of a swim bladder. Therefore, there is no potential for AEOI in-combination.



3.5 Sites Designated with Onshore Ecology Features

Matrix 476: Humber Estuary SPA

Name of Designated Site: Site Code: Closest Distance to Project: Likely Effects of Project	Humber Estuary SPA UK9006111 54.0 km to Array Area / 54.0 km to array Array (WTG) WTG area / 12.5 km to onshore ECC / 47.515.3 km to ANS / 20.947.5 km to biogenic reef / 18.718.2 km to ORCP												
Effect	Risk of Distu	rbance		inside and o		nesting habitat for birds pending on location of the							
Stage of Development	C	0	D	С	0	D	С	0	D				
Great bittern	Хс	Хс	Хс	Хb	Хb	Хb	Хe	Xd	Хe				
Common shelduck							Хe	Xd	Хe				
Eurasian marsh harrier	Ха	Хс	Ха	Ха	Хb	Ха	Хe	Xd	Хe				
Hen harrier							Хe	Xd	Хe				
Pied avocet	Хс	Хс	Хс	Ха	Хb	Ха	Хe	Xd	Хe				
European golden plover	Ха	Хс	Ха	Ха	Хb	Ха	Хe	Xd	Хe				
Red knot							Хe	Xd	Хe				
Dunlin	Ха	Хс	Ха	Хb	Хb	Хb	Хe	Xd	Хe				
Ruff							Хe	Xd	Хe				
Black-tailed godwit							Хe	Xd	Хe				
Bar-tailed godwit							Хe	Xd	Хe				
Common redshank	Ха	Хс	Хa	Ха	Хb	Ха	Хe	Xd	Хe				
Little tern	Хb	Хс	Хb	Хb	Хb	Χb	Хe	Xd	Хe				
Waterbird assemblage	Хa	Хс	Ха	Хb	Хb	Хb	Хe	Xd	Хe				

Evidence supporting conclusions

- Xa It has been concluded that any potential habitat loss and/ or disturbance will not undermine the conservation objectives for this species and designated site and there is therefore no AEoI.
- Xb There will be no loss of habitat or disturbance for this species due to the nature of activities and/ or distance and therefore no AEoI from this effect.
- χ_C With consideration of mitigation, and that disturbance will be localised and temporary it has been concluded that there is no potential for AEoI for this species and effect.
- Xd Given the nature and the frequency of works, there is not the potential for AEoI.
- Xe With the embedded mitigation measures, there would be no AEoI on any of the identified designated sites in relation to hydrological impacts from the Project alone.



Matrix 487: Humber Estuary Ramsar Site

Name of designated site: Site Code:	Humber Estuary Ramsar Site UK11031 (663) 54.0 km to Array Area / 54.0 km to Array (WTG) WTG area / 12.5 km to onshore ECC / 47.5 km to ANS / 20.9 km to biogenic reef / 18.7 km to												
Closest Distance to Project).9 km to biogeni	<u>c reef / 18.7 km to</u>				
I'll all officials of During	<u>ORCP</u> 54.0	km to array / 1.	2.5 km to ECC / 1	15.3 km to ANS /	47.5 km to biog	genic reef / 18.2 km to	O ORCP						
Likely Effects of Project	D: 1 C I						D: 1 C						
Effect	Risk of dis	turbance		for birds in	nside and outside	and nesting habitat e the SPA depending round infrastructure	Risk of po	illution					
Stage of Development	С	0	D	С	0	D	С	0	D				
Criterion 5 – assemblages of international importance (waterfowl, non-breeding season);	Ха	Хс	Ха	Ха	Хb	Ха	Хе	Xd	Хе				
Criterion 6 – species/ populations occurring at levels of international importance	Ха	Хс	Ха	Ха	Хb	Ха	Хе	Xd	Хе				
Common shelduck							Хe	Хd	Хe				
Eurasian golden plover	Ха	Хс	Хa	Хa	Хb	Ха	Хe	Χd	Хe				
Red knot							Хe	Χd	Хе				
Dunlin	Ха	Хс	Хa	Хb	Хb	Хb	Хe	Χd	Хe				
Black-tailed godwit							Хe	Χd	Хе				
Bar-tailed godwit							Хe	Χd	Хe				
Common redshank	Ха	Хс	Хa	Хa	Хb	Ха	Хe	Χd	Хe				

Evidence supporting conclusions

- Xa It has been concluded that any potential habitat loss and/or disturbance will not undermine the conservation objectives for this species and designated site and there is therefore no AEoI.
- There will be no loss of habitat or disturbance for this species due to the nature of activities and/ or distance and therefore no AEoI from this effect.
- XC With consideration of mitigation, and that disturbance will be localised and temporary it has been concluded that there is no potential for AEoI for this species and effect.
- Xd Given the nature and the frequency of works, there is not the potential for AEoI.
- Xe With the embedded mitigation measures, there would be no AEoI on any of the identified designated sites in relation to hydrological impacts from the Project alone.



Matrix 498: Saltfleetby-Theddlethorpe Dunes & Gibraltar Point SAC

Name of designated site: Site Code:	UK0030270	tfleetby-Theddlethorpe Dunes & Gibraltar Point SAC 0030270 <u>5 km to Array Area /</u> 54.54 km to arrayArray (WTG) WTG area / 11.911.9 4.15 km to onshore ECC / <u>51.515.5</u> km to ANS / <u>11.451.5</u> km to biogenic reef /													
Closest Distance to Project	54.5 km to Arı 18.0 .6 km to (l km to array<u>Arra</u>	y (WTG) WTG area	/ 11.9 11.9	km to <u>onshore</u> ECC	/ <u>51.5</u> 45.5 km to	o ANS / <u>11.451.5</u> k	m to biogenic reef /						
Likely Effects of Project															
Effect	Risk of loss of	or damage to h	abitats	Risk of dist	urbance		Risk of pol	lution							
Stage of Development	С	0	D	C	0	D	C	0	D						
Embryonic shifting dunes	Ха	Ха	Ха	Ха		Ха	Хe	Хb	Хe						
Shifting dunes along the shoreline with <i>Ammophila</i> arenaria (""white dunes"")	Ха	Ха	Ха	Ха		Ха	Хe	Хb	Хе						
Fixed coastal dunes with herbaceous vegetation (""grey dunes"")	Ха	Ха	Ха	Ха		Xa	Хе	Хb	Xe						
Dunes with Hippophae rhamnoides	Ха	Ха	Ха	Ха		Ха	Хe	Хb	Хe						
Humid dune slacks	Ха	Ха	Хa	Хa		Ха	Хe	Хb	Хе						

Evidence supporting conclusions

- Xa There will be no loss of habitat or disturbance for this feature due to the nature of activities and/ or distance and therefore no AEoI from this effect.
- Xb Given the nature and the frequency of works, there is not the potential for AEoI.
- Xe With the embedded mitigation measures, there would be no AEoI on any of the identified designated sites in relation to hydrological impacts from the Project alone.

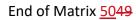


Matrix 50-49: The Wash SPA

Name of designated site:	The Wash SPA	4										
Site Code:	UK9008021											
Closest Distance to Project	66.3 km to Ar ORCP	<u>ray Area /</u> 66.3 kr	n to array<u>Array (WT</u>r	3) WTG area / 16	.5 0.18 km to <u>onsh</u>	<u>nore_</u> ECC / <u>74.022.7 km to</u>	ANS / <u>13.8</u> 74.	.0 km to biogeni	c reef / <u>22.8</u> 3 .8 km to			
Likely Effects of Project												
Effect	Risk of disturb	oance/displaceme	ent	inside and d		nesting habitat for birds epending on location of ure	Risk of pollut	Risk of pollution				
Stage of Development	С	0	D	С	0	D	С	О	D			
Bewick's swan							Xd		Xd			
Pink-footed goose	Xa	Хс	Ха	Хa			Xd		Xd			
Dark-bellied brent goose	Хс	Хс	Хс	Ха			Xd		Xd			
Common shelduck							Xd		Xd			
Eurasian wigeon	Xa	Хс	Хa	Хa			Xd		Xd			
Gadwall	Ха	Хс	Хa	Хb			Xd		Xd			
Northern pintail							Xd		Xd			
Black (common) scoter	Xa	Хс	Хa	Хb			Xd		Xd			
Common goldeneye							Xd		Xd			
Eurasian oystercatcher	Xa	Хс	Хa	Ха			Xd		Xd			
Grey plover							Xd		Xd			
Red knot							Xd		Xd			
Sanderling	Xa	Хс	Хa	Хb			Xd		Xd			
Dunlin	Xa	Хс	Хa	Хb			Xd		Xd			
Black-tailed godwit							Xd		Xd			
Bar-tailed godwit							Xd		Xd			
Eurasian curlew	Xa	Хс	Хa	Ха			Xd		Xd			
Common redshank	Xa	Хс	Хa	Ха			Xd		Xd			
Ruddy turnstone							Xd		Xd			
Common tern	Xa	Хс	Ха	Хb			Xd		Xd			
Little tern	Хb	Хс	Хb	Хb			Xd		Xd			
Waterbird assemblage	Ха	Хс	Ха	Хb			Xd		Xd			

Evidence supporting conclusions

- Xa It has been concluded that any potential habitat loss and/ or disturbance will not undermine the conservation objectives for this species and designated site and there is therefore no AEoI.
- There will be no loss of habitat or disturbance for this species due to the nature of activities and/or distance and therefore no AEoI from this effect.
- XC With consideration of mitigation, and that disturbance will be localised and temporary it has been concluded that there is no potential for AEoI for this species and effect.
- Xd With the embedded mitigation measures, there would be no AEoI on any of the identified designated sites in relation to hydrological impacts from the Project alone.







Matrix 5<u>1</u>0: The Wash RAMSAR site

Name of designated site:	The Wash	RAMSAR Sit	te									
Site Code:	UK11072											
Closest Distance to Project			/ 66.3 km to A							km to bioge	enic reef / 22	<u>8 km to</u>
Libely Effects of Ducinet	<u>ORCP</u> 66.3	km to array	' / 16.5 km to E (CC / 22.7 I	km to ANS / 7	4.0 km to biog	enic reet / 3	l.8 km to OR	CP			
Likely Effects of Project Effect	Dick of loc	s of or dama	age to habitats	Dick of d	listurbance/d	icalacament	Loss of	foraging	roosting and	d Dick of p	allution	
Effect	RISK OI IOS	s of or dame	age to Habitats	RISK OF U	iisturbance/u	ispiacement	Loss of foraging, roosting and nesting habitat for birds inside and outside the SPA depending on location of the above ground infrastructure Risk of pollution Risk of pollution					
Stage of Development	С	0	D	С	0	D	С	0	D	С	0	D
Criterion 1 – Saltmarshes, major intertidal banks of sand and mud, shallow water, and deep channels	Ха			Ха	Ха	Ха	Ха			Хb		Xb
Criterion 3 – Inter-relationship between saltmarshes, intertidal sand, mudflats, and estuarine waters	Ха			Ха	Xa	Ха	Ха			Xb		Хb
Criterion 5 – Bird assemblages of international importance				Хс	Хd	Хс	Хa			Хb		Хb
Criterion 6 – Bird species/ populations occurring at levels of				Хс	Хd	Хс	Хa			Хb		Хb
international importance												
Common redshank				Хс	Хd	Хс	Хс			Хb		Хb
Eurasian curlew				Хс	Хd	Хс	Хс			Хb		Хb
Eurasian oystercatcher				Хс	Хd	Хс	Хс			Хb		Хb
Grey plover										Хb		Хb
Red knot										Хb		Xb
Sanderling				Хс	Χd	Хс	Хa			Хb		Xb
Black-headed gull				Хс	Хd	Хс	Хс			Хb		Хb
Common eider										Хb		Хb
Bar-tailed godwit										Хb		Хb
Common shelduck										Хb		Хb
Dark-bellied brent goose				Xd	Xd	Хd	Хс			Хb		Хb
Dunlin				Хс	Xd	Хс	Хa			Хb		Хb
Pink-footed goose				Ха	Xd	Ха	Хс			Хb		Хb

Evidence supporting conclusions

- There will be no loss of habitat or disturbance for this feature due to the nature of activities and/ or distance and therefore no AEoI from this effect.
- With the embedded mitigation measures, there would be no AEoI on any of the identified designated sites in relation to hydrological impacts from the Project alone.
- XC It has been concluded that any potential habitat loss and/or of the disturbance will not undermine the conservation objectives for this species and designated site and there is therefore no AEoI.
- Xd With consideration of mitigation, and that disturbance will be localised and temporary it has been concluded that there is no potential for AEoI for this species and effect.



Matrix 542: The Wash & North Norfolk Coast SAC

Name of designated site: Site Code: Closest Distance to Project Likely Effects of Project	UK0017075 47.8 km to Array	The Wash & North Norfolk Coast SAC UK0017075 17.8 km to Array Area / 47.8 km to array Array (WTG) WTG area / 13.4-0.18 km to onshore ECC / 50.5 19.3 km to ANS / 8.750.4 km to biogenic reef / 19.30.0 km to ORCP												
Effect	Risk of loss of or habitat quality.	r damage to habit	tats, reduction of	Risk of disturba	nce		Displacement of habitat	otter and reduct	ion of otter					
Stage of Development	С	0	D	С	0	D	С	0	D					
Atlantic salt meadows	Ха	Ха	Ха	Ха		Xa								
Mediterranean and thermo-Atlantic halophilous scrubs	Ха	Ха	Ха	Ха		Ха								
Coastal lagoons	Ха	Ха	Ха	Ха		Ха								
Otter		Xc Xb Xc Xa Xa												

Evidence supporting conclusions

- There will be no loss of habitat or disturbance for this feature due to the nature of activities and/ or distance and therefore no AEoI from this effect.
- Xb Given the nature and the frequency of works, there is not the potential for AEoI.
- XC With consideration of mitigation, and that disturbance will be localised and temporary it has been concluded that there is no potential for AEoI for this species and effect.



Matrix 5<u>3</u>2: Greater Wash SPA

Name of designated site: Site Code: Closest Distance to Project Likely Effects of Project	Greater Wa UK9020329 24.8 km to ORCP	Ð	<u>/</u> 24. <u>8</u> 6 km to	array <u>Array</u>	(WTG) WTG :	<u>area</u> / 0.0 km t	to <u>onshore</u> E	CC / <u>24.0</u> 0.0	km to ANS / <u>0.0</u> 2	4.0 km to bio	ogenic reef / ().0 km to
Effect			damage to of habitat	Risk of dist	urbance/dis	placement	habitat fo	or birds insi	ing and nesting de and outside location of the ucture		ution	
Stage of Development	С	0	D	С	0	D	С	0	D	С	0	D
Sandwich tern	Ха			Ха	Хс	Хa	Ха			Хb		Хb
Common tern	Ха			Ха	Хс	Хa	Ха			Хb		Хb
Little tern	Ха			Ха	Хс	Хa	Ха			Хb		Хb

Evidence supporting conclusions

- Xa There will be no loss of habitat or disturbance for this species due to the nature of activities and/ or distance and therefore no AEoI from this effect.
- With the embedded mitigation measures, there would be no AEoI on any of the identified designated sites in relation to hydrological impacts from the Project alone.
- XC With consideration of mitigation, and that disturbance will be localised and temporary it has been concluded that there is no potential for AEoI for this species and effect.



Matrix 5<u>4</u>3: Gibraltar Point SPA

Name of designated site: Site Code: Closest Distance to Project Likely Effects of Project	Gibraltar P UK9008022 <u>62.9 km to</u> ORCP	2	km to array<u>Array (V</u>	VTG) WTG area / 1:	3.4 <u>4.15</u> km to <u>onsh</u>	<u>iore_</u> ECC / <u>70.6</u> 19	3 km to ANS / <u>11.7</u> 7	0.5 km to biogeni	c reef / 1 <u>9.3.6</u> km to
Effect	Risk of dist	urbance/displacen	nent	inside and	aging, roosting and outside the SPA d ground infrastructu	epending on locat	r birds Risk of poll	ution	
Stage of Development	С	0	D	С	0	D	С	0	D
Grey plover							Хb		Хb
Sanderling	Ха	Хс	Хa	Хa			Хb		Хb
Bar-tailed godwit							Хb		Хb
Little tern	Хa	Хс	Хa	Хa			Хb		Хb

Evidence supporting conclusions

- Xa There will be no loss of habitat or disturbance for this feature due to the nature of activities and/ or distance and therefore no AEoI from this effect.
- Xb With the embedded mitigation measures, there would be no AEoI on any of the identified designated sites in relation to hydrological impacts from the Project alone.
- XC With consideration of mitigation, and that disturbance will be localised and temporary it has been concluded that there is no potential for AEoI for this species and effect.



Matrix 5<u>5</u>4: Gibraltar Point RAMSAR

Name of designated site: Site Code: Closest Distance to Project	Gibraltar Point Ramsar Site UK11027 (589) 62.9 km to Array Area / 62.9 km to Array (WTG) WTG area / 13.44.15 km to onshore ECC / 70.6 km to ANS / 11.7 km to biogenic reef / 19.3 km to ORCP 62.8 km to array / 13.4 km to ECC / 19.3 km to ANS / 70.5 km to biogenic reef / 1.6 km to ORCP													
Effect Effect		ss of or dam I of habitat	nage to habitats, quality.	Risk of d	isturbance		nesting houtside location infrastruc	nabitat for b the SPA of of the a cture, Loss cons of scarce	roosting and rds inside and depending on bove ground f or decline in a invertebrates					
Stage of Development	С	0	D	С	0	D	С	0	D	С	0	D		
Ramsar criterion 1: Coastal habitats – estuarine mudflats, sandbanks, and saltmarsh	Ха		Ха	Ха	Ха	Ха				Xb		Хb		
Ramsar criterion 2: Red Data book invertebrates				Ха	Хa	Хa	Хa			Хb		Хb		
Notable plant species				Хa	Хa	Хa	Хa			Хb		Хb		
Ramsar criterion 5: Waterfowl				Ха	Хс	Хa	Хa			Хb		Хb		
Ramsar criterion 6: Grey plover, sanderling, bar-tailed godwit, dark-bellied brent goose				Ха	Хс	Хa	Хa			Хb		Хb		

Evidence supporting conclusions

- Xa There will be no loss of habitat or disturbance for this feature due to the nature of activities and/ or distance and therefore no AEoI from this effect.
- With the embedded mitigation measures, there would be no AEoI on any of the identified designated sites in relation to hydrological impacts from the Project alone.
- XC With consideration of mitigation, and that disturbance will be localised and temporary it has been concluded that there is no potential for AEoI for this species and effect.



Matrix 565:: North Norfolk Coast SPA

Name of designated site: Site Code: Closest Distance to Project Likely Effects of Project	North No UK900903 <u>56.4 km t</u>	31	<u>1 /</u> 56.4 km to	array <u>Array</u>	·{WTG} WTG	area / 29.9 2	4_km to <u>or</u>	shore_ECC/	59.0_ 31.4 -km	to ANS / ː	<u>16.0</u> 5 9.0 km	to biogenic re	eef / <u>31.4</u> 1	.0.8 km to Ol	RCP
Effect			damage to of habitat		sturbance/di	isplacement	nesting and outs	habitat for ide the SPA of the ab	oosting and birds inside depending on love ground		oollution			ement of ott on of otter h	
Stage of Development	С	0	D	С	0	D	С	0	D	С	0	D	С	0	D
Pink-footed goose				Ха	Хa	Хa	Ха								

Evidence supporting conclusions

Xa It has been concluded that any potential habitat loss and/or of the disturbance will not undermine the conservation objectives for this species and designated site and there is therefore no AEoI.

End of Matrix 5<u>6</u>5



Matrix 5<u>7</u>€: North Norfolk Coast RAMSAR

Name of designated site:	North No	orfolk RAMS	ΑR												
Site Code:	76														
Closest Distance to Project			a / 56.4 km to to ANS / 59.0					<u>re ECC / 59</u>	0.0 km to ANS /	['] 16.0 km	to biogenic	reef / 31.4	km to ORCP	56.4 km to (array / 29.9
Likely Effects of Project															
Effect			damage to of habitat	Risk of dis	sturbance/d	isplacement	nesting I	nabitat for ide the SF on of the a	roosting and birds inside PA depending above ground		pollution			ement of ot ion of otter l	
Stage of Development	С	0	D	С	0	D	С	0	D	С	0	D	С	0	D
Pink-footed goose		Xa Xa Xa Xa													

Evidence supporting conclusions

Xa It has been concluded that any potential habitat loss and/or of the disturbance will not undermine the conservation objectives for this species and designated site and there is therefore no AEoI.