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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 array 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 SAC	Suspended sediment/ deposition
	Indirect pollution
	Accidental pollution
	Invasive Non-Native Species (INNS)
	Changes to physical processes
	In-combination
Inner Dowsing Sandbanks and Saturn Reef SAC	Physical habitat loss/ disturbance
	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



	OFFSHORE WIND
Designations	Impacts Considered in Matrices
	Invasive Non-Native Species (INNS)
	Changes to physical processes
	In-combination
The Wash Ramsar	Suspended sediment / deposition
	Indirect pollution
	Accidental pollution
	Invasive Non-Native Species (INNS)
	Changes to physical processes
	In-combination
Marine Mammals	
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 Coast	Underwater noise
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
Moray men sine	Vessel disturbance
	Collision Risk
	Changes to prey
	In-combination effects
Transboundary sites for seals (12 sites)	Underwater noise
Transpoundary sites for seals (12 sites)	Vessel disturbance
	Changes to prey
	Collision Risk
	In-combination effects
Offshore and intertidal ornithology	in combination effects



	OFFSHORE WIND
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 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
NOITH NOTOIR COAST STA	Barrier effects due to the presence of turbines
Gibraltar Point Ramsar	Collision risk
Gibraitar Point Karrisar	
	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
Trainiborough and they coust size	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
Aldo Oro Estuary Ramsar	Collision risk
Alde Ore Estuary SPA	Collision risk
Alde-Ore Estuary SPA	
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



Designations	Impacts Considered in Matrices
<u> </u>	Direct disturbance and displacement due to the
	presence of turbines
	Collision risk
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 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 the 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 Collision risk Barrier effects due to the presence of turbines Collision risk 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 Collision risk Barrier effects due to the presence of turbines 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 Collision risk Barrier effects due to the presence of turbines Collision risk Barrier effects due to the presence of turbines Collision risk Barrier effects due to the presence of turbines Collision risk Barrier effects due to the presence of turbines
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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
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
1



	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
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
6	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
11033 31 71	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
I dula SFA	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
Hermaness, Saxa Vord and Valla Field SPA	Direct disturbance and displacement due to
Hermaness, Saxa void and Valla Held SFA	work activity and vessel movements in both the
	offshore and intertidal zones
	Direct disturbance and displacement due to the
	presence of turbines Collision risk
Migratory fich	Barrier effects due to the presence of turbines
Migratory fish	Hadamustar naisa
Humber Estuary SAC	Underwater noise,
Ouchage coalest	In-combination effects
Onshore ecology	Dick of disturbance / displacement
Humber Estuary SPA	Risk of disturbance/ displacement,



Designations	Impacts Considered in Matrices
2 60.6	Loss of foraging, roosting and nesting habitat
	for birds outside the SPA,
	Risk of pollution
Humber Estuary Ramsar Site	Loss of estuary habitats,
Transper Estuary Transpar Site	Risk of disturbance /displacement,
	Loss of foraging and roosting habitat for birds
	outside the Ramsar site,
	Risk of pollutio
Saltfleetby-Theddlethorpe Dunes & Gibraltar	Risk of loss, damage and/ or disturbance of
Point SAC	habitats
1 01111 37 (0	Disturbance of species
	Risk of pollution
The Wash SPA	Risk of disturbance/ displacement,
THE Wash SI / C	Loss of foraging, roosting and nesting habitat,
	Risk of pollution
The Wash Ramsar Site	Risk of loss or damage to habitats,
The Wash Names Sie	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 5.9 km to array / 17.7 km to I				5 km to k	oiogenic (reef / 69.	.6km to (DRCP										
Effect			nded sed	iment /	Indirec	t pollutio	on	Accide	ntal poll	ution	INNS			Change		sical	In-com	bination	effects
		deposi	tion											process	ses				
Stage of Development		С	0	D	С	0	D	С	0	D	C	0	D	С	0	D	C	0	D
Reefs				Хa	Хb	Хb	Хb	Хb	Хb	Хb	Хс	Хс	Хс	Χd	Χd	Χd	Хe	Хe	Хe
Sandbanks which are slightly	Хa		Хa	Хb	Хb	Хb	Хb	Хb	Хb	Хс	Хс	Хс	Χd	Хd	Xd	Хe	Хe	Хе	
the time																			

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	UK003	30370	g, Race ray / 0.0			J		/ 0.0 kn	n to bio	genic re	eef / 0.0	km to C	DRCP											
Effect		Physical habitat Suspended sediment / deposition				Indire	ct pollu	tion	Accide pollut			INNS			Chang	ges to pl sses	nysical	EMF			In-con effects	nbinatio S	n	
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	Χb	Хb	Хb	Χb	Χb	Хс	Хс	Хс	Χd	Хd	Χd		Χg		Χh	Χh	Χh
Sandbanks which are slightly covered by sea water all of the time	1 '	Χf	Χf	Хa		Ха	Хb	Хb	Хb	Хb	Хb	Хb	Хс	Хс	Хс	Xd	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 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.
- 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: The Wash and North Norfolk Coast SAC Site Code: UK0017075 Closest Distance to Project 48.4 km to array / 13.4 km to ECC / 50.4 km to ANS / 0.0 km to biogenic reef / 19.3 km to ORCP Likely Effects of Project Accidental pollution INNS Suspended sediment / Indirect pollution Changes to physical In-combination effects deposition processes D Stage of Development 0 0 Sandbanks which are slightly Χa Χa Χb Χb Χb Χb Χb Χb Хc Хc Χd Χd Χd Хc Хe Хe Хe covered by sea water all of the time Mudflats and sandflats not Χa Χd Χd Χd Χa Χb Χb Χb Χb Χb Χb Хc Хc Хc Хe Хe Хe covered by seawater at low tide Large shallow inlets and bays Χa Χa Χb Χb Χb Χb Χb Χb Хc Хc Хc Χd Χd Χd Хe Хe Хe Reefs Хa Хa Xb Χb Χb Χb Χb Χb Хc Хc Хc Χd Χd Χd Хe Хe Хe Salicornia and other annuals | Xa Χa Χb Χb Χb Χb Χb Χb Хc Хc Хc Χd Χd Χd Хe Хe Хe colonizing mud and sand Atlantic salt meadows (Glauco-Хa Χb Хc Χd Χd Χd Χa Χb Χb Χb Χb Χb Хc Хc Хe Хe Хe Puccinellietalia maritimae)

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 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.
- 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)		n to ECC ,	/ 47.5 km	to ANS / 1	l8.2 km tc	o biogeni	c reef / 15	5.3km to C	DRCP							
Effect	Susper	nded sedi	ment /	Indired	t pollutio	n	Accider	ntal pollu	tion	INNS			Change	es to physi	ical	In-con	nbination	effects
	deposi	tion											proces	ses				
Stage of Development	С	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	Хc	Хс	Χd	Χd	Xd	Хe	Хe	Хe
Estuarine waters	Хa		Хa	Хb	Хb	Хb	Хb	Хb	Хb	Хс	Хс	Хс	Χd	Χd	Xd	Хe	Хe	Хe
Intertidal mud and sand flats	Хa		Хa	Хb	Хb	Хb	Хb	Хb	Хb	Хс	Хс	Хс	Χd	Χd	Xd	Хe	Хe	Хe
Saltmarshes	Хa		Хa	Хb	Хb	Хb	Хb	Хb	Хb	Хс	Хс	Хс	Χd	Xd	Xd	Хe	Хe	Хe
Coastal brackish/saline lagoons	Хa		Хa	Хb	Хb	Хb	Хb	Хb	Хb	Хс	Хс	Хс	Хd	Xd	Χd	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.
- Xb 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: Site Code: Closest Distance to Project Likely Effects of Project	UK110	er Estuary 31 (663) n to array		n to ECC /	′ 47.5 km	to ANS / 2	23.8 km to	o biogeni	c reef / 19).7km to C)RCP							
Effect		Suspended sediment / deposition C O D			t pollutio	n	Accider	ntal pollu	tion	INNS			Change	es to physi ses	ical	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	Xd	Хd	Xd	Хe	Хe	Хe
Estuarine waters	Хa		Хa	Хb	Хb	Хb	Хb	Хb	Хb	Хс	Хс	Хс	Xd	Xd	Xd	Хe	Хe	Хe
Intertidal mud and sand flats	Хa		Хa	Хb	Хb	Хb	Хb	Хb	Хb	Хс	Хс	Хс	Xd	Хd	Xd	Хe	Хe	Хe
Saltmarshes	Хa		Хa	Хb	Хb	Хb	Хb	Хb	Хb	Хс	Хс	Хс	Xd	Xd	Xd	Хe	Хe	Хe
Coastal brackish/saline lagoons	Хa		Хa	Хb	Хb	Хb	Хb	Хb	Хb	Хс	Хс	Хс	Χd	Xd	Xd	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.
- Xb This 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.
- 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 /		to ECC / 7	0.5 km to A	NS / 1.6 k	m to bioge	enic reef /	19.3km to	o ORCP								
Effect	Suspended sediment / Indirect pollu deposition				t pollution		Acciden	tal polluti	on	INNS			Change proces	es to physi ses	cal	In-com	ıbination 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	Χd	Хd	Хd	Хе	Хe	Хe
Sandbanks	Хa		Ха	Хb	Хb	Хb	Хb	Хb	Хb	Хс	Хс	Хс	Хd	Хd	Хd	Хе	Хe	Хe
Saltmarsh	Хa		Хa	Хb	Хb	Хb	Хb	Хb	Хb	Хс	Хс	Хс	Χd	Χd	Хd	Хе	Хe	Хe
Dunes	Хa		Хa	Хb	Хb	Хb	Хb	Хb	Хb	Хс	Хс	Хс	Χd	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	UK110	ash Ramsa 72 (395) n to array		to ECC / 7	'0.5 km to	ANS / 1.6 I	km to biog	enic reef /	19.3km t	o ORCP								
Effect		Suspended sediment / Indirect pollution deposition					Accider	ntal polluti	on	INNS			Change	s to physic ses	cal	In-com	bination 6	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	Χd	Xd	Хd	Хe	Хe	Хe
Sandbanks	Хa		Хa	Хb	Хb	Хb	Хb	Хb	Хb	Хс	Хс	Хс	Χd	Xd	Хd	Хe	Хe	Хe
Saltmarsh	Хa		Хa	Хb	Хb	Хb	Хb	Хb	Хb	Хс	Хс	Хс	Χd	Xd	Хd	Хe	Хe	Хe
Dunes	Хa		Хa	Хb	Хb	Хb	Хb	Хb	Хb	Хс	Хс	Хс	Χd	Xd	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



3.2 Sites Designated with Marine Mammal Features

Matrix 8: Berwickshire and North Northumberland Coast SAC

Name of designated site: Berwickshire and North Northumberland Coast SAC

Site Code: UK0030395

Closest Distance to Project 260.4 km to array / 262.0 km to ECC / 232.6 km to ANS / 259.2 km to biogenic reef / 262.0 km to ORCP

(Offshore)

Likely Effects of Project

Lineary Erreacts of Fragett															
Effect	Underwat	er noise		Vessel dist	urbance		Collision ris	sk		Changes to	o prey		In-comb	ination effe	cts
Stage of Development	С	C O D		С	0	D	С	0	D	С	0	D	С	0	D
Grey Seal	Хa	Хa	Хa	Хb	Хb	Xb	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 9: Moray Firth SAC

Name of designated site: Site Code: Closest Distance to Project (Of Likely Effects of Project	fshore)	UK0019	Firth SAC 1808 m to array / 5	25.5 km to I	ECC / 487.0 k	xm to ANS / !	521.2 km to	biogenic re	ef / 525.5kr	n to ORCP					
Effect	Underwa	iter noise		Vessel di	sturbance		Collision	risk		Changes	to prey		In-comb	ination ef	fects
Stage of Development C O D C O D C O D C O D C O D															
Bottlenose dolphin	Хa	Хa	Хa	Хb	Хb	Хb	Хb	Хb	Хb	Хс	Хс	Хс	Χd	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.
- 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	UK00	30395	orth Sea ray / 1.1		ECC / 0	.0 km to	o ANS /	[/] 34.7 kn	n to bio	genic re	eef / 42	.3km to	ORCP											
Effect	Habit	at Loss		Unde	rwater	noise	Vesse	el distur	bance	Collisi	ion risk		Indire	ct poll	ution	Accid pollut			Chan	ges to p	rey	In-cor effect	mbinati ts	ion
Stage of Development	С	0	D	С	0	D	С	0	D	С	0	D	С	0	D	C	0	D	С	0	D	С	0	D
Harbour porpoise	Хa	Хa	Хa	Хb	Хb	Хb	Хc	Хc	l Xc	l X c	l X c	l Xc	Χd	Χd	Χd	Xd	Χd	Χd	Хe	Хe	Хe	Xf	Χf	Xf

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

Closest Distance to Project 54.4 km to array / 18.5 km to ECC / 47.5 km to ANS / 23.8 km to biogenic reef / 19.7km to ORCP

(offshore)

Likely Effects of Project

Effect	Underw	ater noise		Vessel dis	sturbance	nce Collision risk		Changes to prey			Disturbance at haul out			In-combination effects				
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	Ха	Хb	Хb	Хb	Хb	Хb	Хb	Хс	Хс	Хс	Хb	Хb	Хb	Χd	Χd	Χd

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				km to ANS	/ 0.0 km to	biogenic re	eef / 19.3k	km to ORCP						
Effect	Underw	ater noise		Vessel di	sturbance		Collision	risk		Changes	to prey		In-combi	nation effe	ects
Stage of Development	С	0	D	С	0	D	С	0	С	С	0	D	С	0	D
Harbour seal	Хa	Xa	Ха	Хb	Хb	Хb	Хb	Хb	Хb	Хс	Хс	Хс	Xd	Χd	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:	Transb Various	•	es for Harl	oour and Gr	ey seals (1	2 sites)									
Closest Distance to Project	Various	S													
Likely Effects of Project															
Effect	Underv	vater noise		Vessel d	isturbance	2	Collisio	on risk		Change	s to prey		In-com	bination ef	fects
Stage of Development	C	0	D	С	0	D	С	0	D	С	0	D	С	0	D
Bancs de Flandres SCA;	Хa	Хa	Хa	Χb	Хb	Хb	Хb	Хb	Χb	Хс	Хс	Хс	Χd	Χd	Xd
Doggersbank (Netherlands) SAC;	Ха	Хa	Хa	Хb	Хb	Хb	Хb	Хb	Хb	Хс	Хс	Хс	Χd	Χd	Xd
Klaverbak SCI;	Ха	Хa	Хa	Хb	Хb	Хb	Хb	Хb	Хb	Хс	Хс	Хс	Χd	Χd	Xd
Noordzeekustone SCI;	Ха	Хa	Хa	Хb	Хb	Хb	Хb	Хb	Хb	Хс	Хс	Хс	Χd	Χd	Xd
SBZ 1 SCI;	Ха	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 Banked 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	Хd	Xd
Waddenzee SCI; and	Ха	Хa	Хa	Хb	Хb	Хb	Хb	Хb	Хb	Хс	Хс	Хс	Χd	Χd	Xd
Westerschelde & Saeftinghe SCI.	Хa	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.
- 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: Site Code: Closest Distance to Project Likely Effects of Project	Greater V UK90203 24.6 km t	29	m to ECC / 24.0 k	m to ANS /	0.0 km to biog	genic reef / 0.0km	to ORCP					
Effect	due to moveme	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 r turbines	risk due to the	e presence of	In-combinat	ion	
Stage of Development	С	0	D	С	0	D	С	0	D	С	0	D
Common scoter	Хa	Хa	Ха	Хa	Ха	Ха		Хс		Xd	Хd	Xd
Little gull	Хb	Хb	Хb	Хb	Хb	Хb		Хс		Хe	Хe	Хе
Red-throated diver	Хa	Хa	Хa	Хa	Хa	Ха		Хс		Xd	Xd	Xd
Little tern	Хb	Хb	Хb	Хb	Хb	Хb		Хс		Хe	Хe	Xe
Common tern	Хb	Хb	Хb	Хb	Хb	Хb		Хс		Хe	Хe	Хе
Sandwich tern	Хb	Хb	Хb	Хb	Хb	Хb		Хс		Хe	Хe	Хe

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.
- χ_C 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.
- Xe As above, considering the negligible levels of impact to migratory birds when considered alone, we conclude no potential for AEoI in-combination.



Matrix 15: Humber Estuary Ramsar

Name of designated site: Site Code: Closest Distance to Project Likely Effects of Project	Humber Estuary Ramsar UK11031 (663) 54.0 km to array / 12.1 k		/ 18.2 km to biogenic reef / 15.	3 km to ORCP		
Effect	Collision risk due to the	presence of turbines		In-combination		
Stage of Development	С	0	D	С	0	D
European golden plover		Xa			Xa	
Red knot		Xa			Xa	
Dunlin		Xa			Ха	
Black-tailed godwit		Xa			Ха	
Common redshank		Xa			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: Closest Distance to Project Likely Effects of Project	Site Code: UK9006111 Closest Distance to Project 54.0 km to array / 12.1 km to ECC / 47.5 km to ANS / 18.2 km to biogenic reef / 15.3 km to ORCP Likely Effects of Project										
Effect	Collision risk due to the	presence of turbines		In-combination							
Stage of Development	D	0	D	С	0	D					
Avocet		Xa			Xa						
Bar-tailed godwit		Xa			Xa						
Bittern		Ха			Xa						
Black-tailed godwit		Xa			Ха						
Dunlin		Xa			Ха						
Golden plover		Xa			Ха						
Hen harrier		Xa			Ха						
Knot		Xa			Ха						
Little tern		Xa			Ха						
Marsh harrier		Xa			Ха						
Redshank		Xa			Ха						
Ruff		Xa			Xa						
Shelduck		Xa			Ха						
Pink-footed goose		Xa			Xa						
Wigeon		Xa			Xa						
Ringed plover		Xa			Xa						
Curlew		Xa			Xa						
Sanderling		Xa			Ха						
Oystercatcher		Xa			Ха						
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: Closest Distance to Project	UK9009031										
Likely Effects of Project	37.2 Km to array / 23.3 km to	200 / 33.0 km to / 10.0 km	in to biogethereer / 31.4 km to	one.							
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			Xa						
Eurasian marsh harrier		Ха			Xa						
Eurasian wigeon		Ха			Xa						
Great bittern		Ха			Xa						
Pied avocet		Xa			Ха						
Pink-footed goose		Xa			Xa						
Red knot		Ха			Xa						
Sandwich tern		Xa			Ха						
Common tern		Ха			Xa						
Little tern		Ха			Xa						
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 18: Gibraltar Point Ramsar

Name of designated site: Site Code: Closest Distance to Project Likely Effects of Project	Gibraltar Point Ramsar UK11027 (589) 63.1 km to array / 13.3 km to ECC / 70.5 km to ANS / 1.6 km to biogenic reef / 19.3 km to ORCP												
Effect	Collision risk due to the p	lision risk due to the presence of turbines In-combination											
Stage of Development	С	0	D	С	0	D							
Grey plover		Xa			Xa								
Sanderling		Xa			Ха								
Dark-bellied brent goose		Ха			Xa								
Bar-tailed godwit		Xa			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

Name of designated site: Site Code: Closest Distance to Project Likely Effects of Project	Gibraltar Point SPA UK9008022 63.1 km to array / 13.3 k	m to ECC / 70.5 km to ANS	S / 1.6 km to biogenic reef	/ 19.3 km to ORCP						
Effect	Collision risk due to the presence of turbines In-combination									
Stage of Development	С	0	D	С	0	D				
Grey plover		Ха			Xa					
Sanderling		Ха			Ха					
Little Tern		Ха			Ха					
Bar-tailed godwit		Ха			Ха					

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 alone or in-combination.



Matrix 20: The Wash Ramsar

Name of designated site:	The Wash Ramsar					
Site Code:	UK11072 (395)					
Closest Distance to Project	66.5 km to array / 16.4 km	n to ECC / 74.0 km to ANS / 3	3.8 km to biogenic reef / 22.7	km to ORCP		
Likely Effects of Project						
Effect	Collision risk due to the pr	esence of turbines		In-combination		
Stage of Development	С	0	D	С	0	D
Eurasian oystercatcher		Xa			Xa	
Grey plover		Xa			Xa	
Red knot		Xa			Xa	
Sanderling		Xa			Xa	
Eurasian curlew		Xa			Ха	
Common redshank		Xa			Ха	
Ruddy turnstone		Xa			Ха	
Pink-footed goose		Xa			Ха	
Dark-bellied brent goose		Xa			Ха	
Common shelduck		Ха			Ха	
Northern pintail		Ха			Ха	
Dunlin		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 21: The Wash SPA

Name of designated site: Site Code: Closest Distance to Project Likely Effects of Project	The Wash SPA UK9008021 66.5 km to array / 16.4 km to ECC / 74.0 km to ANS / 3.8 km to biogenic reef / 22.7 km to ORCP							
Effect	Collision risk due to the pre	esence of turbines		In-combination				
Stage of Development	C ()	D	С	0	D		
Bar-tailed godwit		Ха			Xa			
Common scoter	,	Ха			Xa			
Black-tailed godwit		Ха			Xa			
Common goldeneye		Ха			Xa			
Common redshank		Ха			Xa			
Common shelduck		Ха			Xa			
Dark-bellied brent goose		Ха			Xa			
Dunlin	,	Ха			Xa			
Eurasian curlew	,	Ха			Xa			
Eurasian oystercatcher	,	Ха			Xa			
Eurasian wigeon	,	Ха			Xa			
Gadwall	,	Ха			Xa			
Grey plover		Ха			Xa			
Northern pintail	,	Ха			Xa			
Pink-footed goose		Ха			Xa			
Red knot		Ха			Xa			
Ruddy turnstone		Ха			Xa			
Sanderling		Ха			Xa			
Tundra swan		Ха			Xa			
Common tern		Ха			Xa			
Little tern		Ха			Xa			
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			to ANS / 88	.8 km to bioger	nic reef / 92.0 km to	ORCP					
Effect	work acti		novements in both	Direct disturbance and displacement due to the presence of turbines			Collision	risk due to the p	resence of turbines	In-combination		
Stage of Development	С	0	D	С	0	D	С	О	D	С	0	D
Kittiwake								Ха			√d	
Gannet		Хa			Хa			Хa			Хb	
Herring gull								Хa			Хb	
Guillemot	Ха	Хa	Ха	Ха	Хa	Ха		Хa		Хb	Хb	Хb
Razorbill	Ха	Хa	Ха	Хa	Хa	Ха		Ха		Хb	Хс	Хb
Puffin	Хa	Хa	Ха	Ха	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	147.4 km to array / 131.3 km	7.4 km to array / 131.3 km to ECC / 136.2 km to ANS / 110.4 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	C D C 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: Closest Distance to Project Likely Effects of Project	Alde-Ore Estuary SPA UK9009112 147.2 km to array / 131.3 kn	n to ECC / 136.2 km to ANS / 11	l0.4 km to biogenic reef / 139.2	km to ORCP					
Effect	Collision risk due to the pres	Collision risk due to the presence of turbines In-combination							
Stage of Development	С	0	D	С	0	D			
Lesser black-backed gull		Ха			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 Islai UK9006031 258.6 km to		ECC / 231.0 km to ANS / 25	6.3 km to bio	genic reef / 258.8 km	n to ORCP				
Effect			nent due to work activity he offshore and intertidal			ment due to the presenc	e In-combina	In-combination		
Stage of Development	С	0	D	С	0	D	С	0	D	
Puffin	Хa	Ха	Ха	Ха	Хa	Ха	Хb	Хb	Хb	
Sandwich tern								Хb		
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	UK9006021	arne Islands SPA K9006021 85.8 km to array / 289.1 km to ECC / 257.9 km to ANS / 285.9 km to biogenic reef / 289.1 km to ORCP irect disturbance and displacement due										
Effect	to work activ		movements in			cement due to	Collision risk turbines	due to the	presence of	In-combinatio	n	
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	Xb	Хb	Хb	Хb	Хb				Хс	Хс	

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 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	UK9004171	orth Islands SPA IK9004171 63.7 km to array / 363.4 km to ECC / 335.9 km to ANS / 361.2 km to biogenic reef / 363.4 km to ORCP Irrect disturbance and displacement due to Direct disturbance and displacement due to Collision risk due to the presence of In-combination										
Effect	work activity a	ance and displad and vessel move nd intertidal zo	ements in both			cement due to	Collision risk turbines	due to the	presence of	In-combinatio	n	
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

Name of designated site: Site Code: Closest Distance to Project Likely Effects of Project	UK90041	chan Ness to Collieston Coast SPA 9004171 6.58 km to array / 469.78 km to ECC / 433.78 km to ANS / 464.79 km to biogenic reef / 469.78 km to ORCP ect disturbance and displacement due to Direct disturbance and displacement due to Collision risk due to the presence of turbines In-combination										
Effect	work acti		movements in bot				Collision	n risk due to the p	oresence of turbines	In-combi	nation	
Stage of Development	С	О	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	UK9004171	of Eday SPA 004171 13 km to array / 682.41 km to ECC / 645.20 km to ANS / 677.99 km to biogenic reef / 683.51 km to ORCP ct disturbance and displacement due to Direct disturbance and displacement due to Collision risk due to the presence of In-combination										
Effect	work activity		vements in both			acement due to	Collision risl turbines	due to the	presence of	In-combinati	on	
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

- 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	UK900417	.89 km to array / 646.18 km to ECC / 608.78 km to ANS / 641.18 km to biogenic reef / 646.57 km to ORCP										
Effect	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			n risk due to the p	resence 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

Хa	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.
Λα	with consideration of the significant projected low impact of consideration species we conclude this impact will have no impact on baseline mortality and therefore no right.

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 AFoI

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 584.60 km to array / 593.17 km to ECC / 561.04 km to ANS / 589.27 km to biogenic reef / 593.17 km to ORCP												
Effect	Direct disturbance and displacement due to work activity and vessel movements in both the offshore and intertidal zones					Collision ri turbines	sk due to the	e presence of	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

Υa	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 AFol
Λа	Na With consideration of the significant projected low impact of complot risk of migratory species we conclude this impact with have	the impact on baseline mortality and therefore no reol.

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	UK9002091 Project 678.64 km to array / 693.43 km to ECC / 658.03 km to ANS / 693.26 km to biogenic reef / 699.76 km to ORCP oject												
Effect	work activ		isplacement due to movements in both al zones				Collision turbines		the presence of	In-comb	ination		
Stage of Development	С	О	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	
Puffin	Хb	Хb	Хb	Хb	Хb	Хb				Хс	Хс	Хс	
Gannet								Ха		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 SP/ UK90041 746.73 kr	71	.52 km to ECC/	726.08 km to A	NS / 761.20 km	n to biogenic reef	′ 767.64 km	to ORCP				
Effect	Direct disturbance and displacement due to work activity and vessel movements in both the offshore and intertidal zones				·			risk due to the p	oresence 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
Puffin	Хb	Хb	Хb	Хb	Хb	Хb				Хс	Хс	Хс

Evidence supporting conclusions

Хa	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	AEol.
/ · G		

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	Site Code: UK9002271 Closest Distance to Project 421.52 km to array / 430.91 km to ECC / 397.98 km to ANS / 426.70 km to biogenic reef / 430.91 km to ORCP Likely Effects of Project													
Effect	Direct disturbance and displacement due to work activity and vessel movements in both the offshore and intertidal zones			·			risk due to	the presence of	In-combi	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

Υa	With consideration of the significant projected low impact of collision risk	on migratory species we conclude	this impact will have no impact on hase	line mortality and therefore no AFol
Λа	with consideration of the significant projected low impact of consider risk	on migratory species we conclude	tins impact will have no impact on base	and mortality and therefore no ALOI.

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 Direct disturbance and displacement due to Direct disturbance and displacement due to Direct disturbance and displacement due to Hermaness, Saxa, Vord and Valla Field SPA UK9002011 800.00 km to array / 814.62 km to ECC / 781.79 km to ANS / 819.29 km to biogenic reef / 826.58 km to ORCP Likely Effects of Project Collision risk due to the presence of turbines In-combination												
Effect	Direct disturbance and displacement due to work activity and vessel movements in both the offshore and intertidal zones							ı risk due to the p	oresence 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
Puffin	Хb	Хb	Хb	Хb	Хb	Хb				Хс	Хс	Хс
Gannet								Хa		Хс	Хс	Хс

Evidence supporting conclusions

	Хa	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	Hoy SPA UK9002141 637.50 km	JK9002141 37.50 km to array / 650.12 km to ECC / 614.71 km to ANS / 645.38 km to biogenic reef / 650.12 km to ORCP													
Effect						Collision risk	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			
Puffin	Хb	Хb	Хb	Хb	Хb	Хb				Хс	Хс	Хс			

Evidence supporting conclusions

٧a	With consideration of the sign	ificant projected lov	impact of collicion rick on m	igratory chocies we c	onclude this impact will have no ir	anact on hacoling mortality and	thoroforo no AEOL
Λd	With consideration of the sign	illicarit projecteu iov	illipact of collision risk on ill	igiatory species we c	miciale tills illipact will have no il	npact on baseline mortality and	therefore no ALOI.

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

Name of designated site: Site Code: Closest Distance to Project Likely Effects of Project	Marwick Hea UK9002121 670.39 km to		km to ECC / 647	.80 km to ANS /	′ 678.98 km to l	oiogenic reef / 6	83.89 km to OR	СР				
Effect	Direct disturbance and displacement due to work activity and vessel movements in both the offshore and intertidal zones			·			Collision risk d	ue to the prese	nce of turbines	In-combinatio	on	
Stage of Development	С	0	D	С	0	D	С	0	D	С	0	D
Guillemot	Xb	Хb	Хb	Хb	Хb	Хb				Хс	Хс	Хс
Kittiwake								Ха		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 38: North Caithness Cliffs SPA

Name of designated site: Site Code: Closest Distance to Project Likely Effects of Project	UK90011	orth Caithness Cliffs SPA K9001181 93.32 km to array / 600.07 km to ECC / 569.48 km to ANS / 596.58 km to biogenic reef / 600.07 km to ORCP										
Effect	work acti	turbance and divity and vessel rore and intertion	novements in b				to 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
Razorbill	Хb	Хb	Хb	Хb	Хb	Хb				Хс	Хс	Хс

Evidence supporting conclusions

Хa	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.	
Λu		

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 734.45 km to a	002081 45 km to array / 748.97 km to ECC / 715.64 km to ANS / 752.72 km to biogenic reef / 759.89 km to ORCP										
Effect	work activity a	Pirect 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			lue 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								Ха		Хс	Хс	Хс
Puffin	Хb	Хb	Хb	Хb	Хb	Хb				Хс	Хс	Хс
Gannet								Ха		Хс	Хс	Хс

Evidence supporting conclusions

Хa	With consideration of the significant projected low impact of collision risk on migrate	ory species we conclude this impact will have no impact on baseline mortality and therefore no AEo
ха	With consideration of the significant projected low impact of collision risk on migrati	ory species we conclude this impact will have no impact on baseline mortality and therefore no <i>i</i>

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 Χb 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 Хc impacts.



Matrix 40: Rousay SPA

Name of designated site: Site Code: Closest Distance to Project Likely Effects of Project	Noss SPA UK9004171 667.99 km to											
Effect	work activity a	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 due to the presence of turbines			n	
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 40: St Abb's Head SPA

Name of designated site: Site Code: Closest Distance to Project Likely Effects of Project	UK90025	Abb's Head to Fast Castle SPA 9002511 9.88 km to array / 331.52 km to ECC / 305.30 km to ANS / 328.85 km to biogenic reef / 331.52 km to ORCP										
Effect	work acti		novements in both			isplacement 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
Razorbill	Хb	Хb	Хb	Хb	Хb	Хb				Хс	Хс	Хс

Evidence supporting conclusions

Y	а	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.
	а	With consideration of the significant projected low impact of consideration and therefore no Albert

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 41: Sumburgh Head SPA

Name of designated site: Site Code: Closest Distance to Project Likely Effects of Project	UK9002511	Sumburgh Head SPA JK9002511 207.69 km to array / 772.03 km to ECC / 687.95 km to ANS / 724.28 km to biogenic reef / 731.20 km to ORCP										
Effect	work activit		placement due to ovements in both zones		urbance and disp ace of turbines	lacement due to	Collision	risk due to the pr	esence 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 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 42: Troup, Pennan and Lion's Head SPA

Name of designated site: Site Code: Closest Distance to Project Likely Effects of Project	UK9002471	o, Pennan and Lion's Head SPA 02471 66km to array / 511.77km to ECC / 475.65km to ANS / 506.77km to biogenic reef / 511.77km to ORCP										
Effect	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 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								Xa		Хс	Хс	Хс
Razorbill	Хb	Хb	Хb	Хb	Хb	Хb				Хс	Хс	Хс

Evidence supporting conclusions

Υa	With consideration of the significant projected low impact of collision risk	on migratory species we conclude	this impact will have no impact on hase	line mortality and therefore no AFol
Λа	with consideration of the significant projected low impact of consider risk	on migratory species we conclude	tins impact will have no impact on base	and mortality and therefore no ALOI.

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 43: West Westray SPA

Name of designated site: Site Code: Closest Distance to Project Likely Effects of Project	UK90021	st Westray SPA 9002101 3.53 km to array / 693.81 km to ECC / 656.36 km to ANS / 688.58 km to biogenic reef / 693.88 km to ORCP										
Effect	work acti		novements in both				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
Razorbill	Хb	Хb	Хb	Хb	Хb	Хb				Хс	Хс	Хс

Evidence supporting conclusions

Y	้ 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.
	d	with consideration of the significant projected low impact of consideration y species we conclude this impact will have no impact on baseline mortality and therefore no ALOI.

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 44: Rousay SPA

Name of designated site: Site Code: Closest Distance to Project Likely Effects of Project	Rousay SF 8573 668.0 km		! km to ECC / 645.8	km to ANS	/ 677.9 km to bi	iogenic reef / 683.2	km to ORC	CP				
Effect	work acti		novements in both				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
Razorbill	Хb	Хb	Хb	Хb	Хb	Хb				Хс	Хс	Хс

Evidence supporting conclusions

Χa	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	AFol
Λа	with consideration of the significant projected low impact of consisting the reference no	, (LOI.

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 45: Humber Estuary SAC

Name of designated site: Site Code: Closest Distance to Project Likely Effects of Project	Humber Estuary UK0030170 54.4 km to array	y SAC y / 18.5 km to ECC / 47.5 km to	o ANS / 23.8 km to biogenic re	eef / 19.7km to ORCP			
Effect	Underwater noi	ise		In-combination	effects		
Stage of Development	С	0	D	C	0	D	
Sea lamprey	Ха	Ха	Ха	Хb	Хb	Хb	
River lamprey	Хa	Ха	Хa	Хb	Хb	Хb	

Evidence supporting conclusions

χa 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 AΕοΙ.

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 46: 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 / 12.5 km to ECC / 15.3 km to ANS / 47.5 km to biogenic reef / 18.2 km to ORCP														
Effect	Risk of Distur	bance		inside and o		nesting habitat for birds pending on location of the		ution							
Stage of Development	С	0	D	С	0	D	С	0	D						
Great bittern	Хс	Хс	Хс	Хb	Хb	Хb	Хe	Xd	Хе						
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	Хе						
Common redshank	Ха	Хс	Ха	Ха	Хb	Ха	Хe	Xd	Хe						
Little tern	Хb	Хс	Хb	Хb	Хb	Хb	Хe	Xd	Хе						
Waterbird assemblage	Ха	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 47: Humber Estuary Ramsar Site

Name of designated site: Site Code: Closest Distance to Project Likely Effects of Project	Humber Estuary Ramsar Site UK11031 (663) 54.0 km to array / 12.5 km to ECC / 15.3 km to ANS / 47.5 km to biogenic reef / 18.2 km to ORCP Risk of disturbance Loss of foraging, roosting and nesting habitat Risk of pollution											
Effect	Risk of dis	turbance		for birds i	nside and outsid	and nesting habitat e the SPA depending round infrastructure	Risk of po	llution				
Stage of Development	С	0	D	С	0	D	С	О	D			
Criterion 5 – assemblages of international importance (waterfowl, non-breeding season);	Ха	Хс	Ха	Ха	Xb	Ха	Хe	Xd	Хе			
Criterion 6 – species/ populations occurring at levels of international importance	Ха	Хс	Ха	Ха	Xb	Ха	Хe	Xd	Хе			
Common shelduck							Хe	Χd	Хе			
Eurasian golden plover	Хa	Хс	Хa	Хa	Хb	Ха	Хe	Хd	Хе			
Red knot							Хe	Xd	Хе			
Dunlin	Ха	Хс	Хa	Хb	Хb	Хb	Хe	Xd	Хе			
Black-tailed godwit							Хe	Xd	Хе			
Bar-tailed godwit							Хe	Χd	Хе			
Common redshank	Ха	Хс	Хa	Хa	Хb	Ха	Хe	Χd	Хе			

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 48: Saltfleetby-Theddlethorpe Dunes & Gibraltar Point SAC

Name of designated site: Site Code:		Saltfleetby-Theddlethorpe Dunes & Gibraltar Point SAC JK0030270												
Closest Distance to Project Likely Effects of Project	54.4 km to array / 11.9 km to ECC / 15.5 km to ANS / 51.5 km to biogenic reef / 1.6 km to ORCP													
Effect	Risk of loss	of or damage to	habitats	Risk of dist	turbance		Risk of pol	Risk of pollution						
Stage of Development	С	0	D	С	0	D	С	0	D					
Embryonic shifting dunes	Ха	Ха	Ха	Ха		Хa	Хe	Хb	Хe					
Shifting dunes along the shoreline with <i>Ammophila</i> arenaria (""white dunes"")	Ха	Ха	Ха	Xa		Ха	Хе	Xb	Хе					
Fixed coastal dunes with herbaceous vegetation (""grey dunes"")	Ха	Ха	Ха	Ха		Ха	Хe	Xb	Хе					
Dunes with <i>Hippophae rhamnoides</i>	Ха	Ха	Ха	Ха		Хa	Хe	Хb	Хe					
Humid dune slacks	Ха	Хa	Хa	Хa		Хa	Хe	Хb	Хe					

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 49: The Wash SPA

Name of designated site: Site Code: Closest Distance to Project	UK9008021	The Wash SPA UK9008021 66.3 km to array / 16.5 km to ECC / 22.7 km to ANS / 74.0 km to biogenic reef / 3.8 km to ORCP										
Likely Effects of Project												
Effect	Risk of dist	urbance/displacem	ent	inside and	nging, roosting and outside the SPA deground infrastructory	epending on locat		ution				
Stage of Development	С	0	D	С	0	D	С	0	D			
Bewick's swan							Xd		Xd			
Pink-footed goose	Ха	Хс	Ха	Хa			Xd		Xd			
Dark-bellied brent goose	Хс	Хс	Хс	Хa			Xd		Xd			
Common shelduck							Xd		Xd			
Eurasian wigeon	Ха	Хс	Ха	Ха			Хd		Xd			
Gadwall	Ха	Хс	Ха	Хb			Хd		Xd			
Northern pintail							Χd		Xd			
Black (common) scoter	Ха	Хс	Ха	Хb			Χd		Xd			
Common goldeneye							Χd		Xd			
Eurasian oystercatcher	Ха	Хс	Ха	Ха			Χd		Xd			
Grey plover							Χd		Xd			
Red knot							Χd		Xd			
Sanderling	Ха	Хс	Ха	Хb			Χd		Xd			
Dunlin	Ха	Хс	Ха	Хb			Χd		Xd			
Black-tailed godwit							Χd		Xd			
Bar-tailed godwit							Xd		Xd			
Eurasian curlew	Ха	Хс	Ха	Ха			Xd		Xd			
Common redshank	Ха	Хс	Ха	Хa			Xd		Xd			
Ruddy turnstone							Xd		Xd			
Common tern	Хa	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 50: The Wash RAMSAR site

Name of designated site: Site Code: Closest Distance to Project Likely Effects of Project	The Wash RAMSAR Site UK11072 (395) 66.3 km to array / 16.5 km to ECC / 22.7 km to ANS / 74.0 km to biogenic reef / 3.8 km to ORCP													
Effect	Risk of Io	Risk of loss of or damage to habitats O D C		Risk of c	listurbance/d	isplacement	Loss of foraging, roosting and nesting habitat for birds inside and outside the SPA depending on location of the above ground infrastructure							
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	Хa	Ха			Хb		Хb		
Criterion 3 – Inter-relationship between saltmarshes, intertidal sand, mudflats, and estuarine waters	Ха			Ха	Хa	Хa	Хa			Хb		Хb		
Criterion 5 – Bird assemblages of international importance				Хс	Хd	Хс	Хa			Хb		Хb		
Criterion 6 – Bird species/ populations occurring at levels of international importance				Хс	Xd	Хс	Ха			Xb		Хb		
Common redshank				Хс	Хd	Хс	Хс			Хb		Хb		
Eurasian curlew				Хс	Xd	Хс	Хс			Хb		Хb		
Eurasian oystercatcher				Хс	Xd	Хс	Хс			Хb		Хb		
Grey plover										Хb		Хb		
Red knot										Хb		Хb		
Sanderling				Хс	Хd	Хс	Хa			Хb		Хb		
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				Χd	Хd	Xd	Хс			Хb		Хb		
Dunlin				Хс	Xd	Хс	Хa			Хb		Хb		
Pink-footed goose				Ха	Xd	Хa	Хс			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 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 51: The Wash & North Norfolk Coast SAC

Name of designated site: Site Code: Closest Distance to Project Likely Effects of Project	UK0017075	rth Norfolk Coast y / 13.4 km to EC0		/ 50.4 km to bio	genic reef / 0.0 kn	n to ORCP				
Effect	Risk of loss of o habitat quality.		tats, reduction of	Risk of disturba	nce		Displacement of otter and reduction of otter habitat			
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				Хс	Хb	Хс	Ха		Ха	

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.
- 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 52: Greater Wash SPA

Name of designated site: Site Code: Closest Distance to Project Likely Effects of Project	Greater W UK902032 24.6 km to	29	km to ECC / 0).0 km to A	NS / 24.0 km	to biogenic ree	ef / 0.0 km to	o ORCP				
Effect			damage to of habitat		sturbance/dis	splacement	habitat t	or birds ins	sting and nesting ide and outside n location of the ructure		lution	
Stage of Development	С	0	D	С	0	D	С	0	D	С	0	D
Sandwich tern	Хa			Ха	Хс	Хa	Хa			Хb		Хb
Common tern	Хa			Ха	Хс	Хa	Хa			Хb		Хb
Little tern	Хa			Ха	Хс	Хa	Хa			Хb		Хb

Evidence supporting conclusions

- 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 53: Gibraltar Point SPA

Name of designated site: Site Code: Closest Distance to Project Likely Effects of Project	Gibraltar Po UK9008022 62.9 km to		ECC / 19.3 km to A	NS / 70.5 km to bio	ogenic reef / 1.6 km	to ORCP					
Effect	Risk of distu	urbance/displacem	Loss of foraging, roosting and nesting habitat for birds inside and outside the SPA depending on location of the above ground infrastructure Compared to the space of the space of the above ground infrastructure Compared to the space of t								
Stage of Development	С	0	D	С	0	D	С	0	D		
Grey plover							Хb		Хb		
Sanderling	Хa	Хс	Хa	Ха			Хb		Хb		
Bar-tailed godwit							Хb		Хb		
Little tern	Хa	Хс	Ха	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 54: Gibraltar Point RAMSAR

Name of designated site:	Gibraltar F	Point Rams	ar Site									
Site Code:	UK11027 ((589)										
Closest Distance to Project	62.8 km to	array / 13	3.4 km to ECC / 1	9.3 km to A	NS / 70.5 km	to biogenic	reef / 1.6 km	to ORCP				
Likely Effects of Project												
Effect		eduction of habitat quality.			Risk of disturbance			foraging, roabitat for bird the SPA de of the about ture, Loss of ones of scarce in				
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				Ха	Ха	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	Ха	Ха			Хb		Xb

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 55: North Norfolk Coast SPA

Name of designated site: Site Code: Closest Distance to Project Likely Effects of Project	UK900903	North Norfolk SPA UK9009031 56.4 km to array / 29.9km to ECC / 31.4 km to ANS / 59.0 km to biogenic reef / 10.8 km to ORCP													
Effect	Risk of loss of or damage to habitats, reduction of habitat quality.						Loss of foraging, roosting and nesting habitat for birds inside and outside the SPA depending on location of the above ground infrastructure.						Displacement of otter and reduction of otter habitat		
Stage of Development	С	0	D	С	0	D	С	0	D	С	0	D	С	0	D
Pink-footed goose				Ха	Ха	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.



Matrix 56: North Norfolk Coast RAMSAR

Name of designated site: Site Code: Closest Distance to Project Likely Effects of Project	North Norfolk RAMSAR 76 56.4 km to array / 29.9 km to ECC / 31.3 km to ANS / 59.0 km to biogenic reef / 10.8 km to ORCP														
Effect	Risk of loss of or damage to habitats, reduction of habitat quality.			Risk of disturbance/displacement			Loss of foraging, roosting and nesting habitat for birds inside and outside the SPA depending on location of the above ground infrastructure.						Displacement of otter and reduction of otter habitat		
Stage of Development	С	0	D	С	0	D	С	0	D	С	0	D	С	0	D
Pink-footed goose				Ха	Ха	Ха	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.