

# DOGGER BANK D WIND FARM

## Preliminary Environmental Information Report

Volume 2  
Appendix 6.2 Impacts Register

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APPENDIX 6.2 IMPACTS REGISTER

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## Glossary

Term	Definition
Additional Mitigation	<p>Measures identified through the EIA process that are required as further action to avoid, prevent, reduce or, if possible, offset likely significant adverse effects to acceptable levels (also known as secondary (foreseeable) mitigation).</p> <p>All additional mitigation measures adopted by the Project are provided in the Commitments Register.</p>
Commitment	<p>Refers to any embedded mitigation and additional mitigation, enhancement or monitoring measures identified through the EIA process and those identified outside the EIA process such as through stakeholder engagement and design evolution.</p> <p>All commitments adopted by the Project are provided in the Commitments Register.</p>
Development Consent Order (DCO)	<p>A consent required under Section 37 of the Planning Act 2008 to authorise the development of a Nationally Significant Infrastructure Project, which is granted by the relevant Secretary of State following an application to the Planning Inspectorate.</p>
Effect	<p>An effect is the consequence of an impact when considered in combination with the receptor's sensitivity / value / importance, defined in terms of significance.</p>
Embedded Mitigation	<p>Embedded mitigation includes:</p> <ul style="list-style-type: none"> <li>Measures that form an inherent part of the project design evolution such as modifications to the location or design of the development made during the pre-application phase (also known as primary (inherent) mitigation); and</li> <li>Measures that will occur regardless of the EIA process as they are imposed by other existing legislative requirements or are considered as standard or best practice to manage commonly occurring environmental impacts (also known as tertiary (inexorable) mitigation).</li> </ul> <p>All embedded mitigation measures adopted by the Project are provided in the Commitments Register.</p>
Enhancement	<p>Measures committed to by the Project to create or enhance positive benefits to the environment or communities, as a result of the Project.</p> <p>All enhancement measures adopted by the Project are provided in the Commitments Register.</p>
Environmental Impact Assessment (EIA)	<p>A process by which certain planned projects must be assessed before a formal decision to proceed can be made. It involves the collection and consideration of environmental information and includes the publication of an Environmental Statement.</p>
Environmental Statement (ES)	<p>A document reporting the findings of the EIA which describes the measures proposed to mitigate any likely significant effects.</p>

## APPENDIX 6.2 IMPACTS REGISTER

Term	Definition
Evidence Plan Process (EPP)	A voluntary consultation process with technical stakeholders which includes a Steering Group and Expert Topic Group (ETG) meetings to encourage upfront agreement on the nature, volume and range of supporting evidence required to inform the EIA and HRA process.
Expert Topic Group (ETG)	A forum for targeted technical engagement with relevant stakeholders through the EPP.
Impact	An impact is a change resulting from an activity associated with the Project, defined in terms of magnitude.
Mitigation	Any action or process designed to avoid, prevent, reduce or, if possible, offset potentially significant adverse effects of a development.  All mitigation measures adopted by the Project are provided in the Commitments Register.
Monitoring	Measures to ensure the systematic and ongoing collection, analysis and evaluation of data related to the implementation and performance of a development. Monitoring can be undertaken to monitor conditions in the future to verify any environmental effects identified by the EIA, the effectiveness of mitigation or enhancement measures or ensure remedial action are taken should adverse effects above a set threshold occur.  All monitoring measures adopted by the Project are provided in the Commitments Register.
Project Design Envelope	A range of design parameters defined where appropriate to enable the identification and assessment of likely significant effects arising from a project's worst-case scenario.  The Project Design Envelope incorporates flexibility and addresses uncertainty in the DCO application and will be further refined during the EIA process. The project design envelope incorporates flexibility and addresses uncertainty in the DCO application and assessed during the EIA process.
Scoping Opinion	A written opinion issued by the Planning Inspectorate on behalf of the Secretary of State regarding the scope and level of detail of the information to be provided in the Applicant's Environmental Statement.  The Scoping Opinion for the Project was adopted by the Secretary of State on 02 August 2024.
Scoping Report	A request by the Applicant made to the Planning Inspectorate for a Scoping Opinion on behalf of the Secretary of State.  The Scoping Report for the Project was submitted to the Secretary of State on 24 June 2024.
Study Areas	A geographical area and / or temporal limit defined for each EIA topic to identify sensitive receptors and assess the relevant likely significant effects.
The Applicant	SSE Renewables and Equinor acting through 'Doggerbank Offshore Wind Farm Project 4 Projco Limited'

## APPENDIX 6.2 IMPACTS REGISTER

Term	Definition
The Project	Dogger Bank D (DBD) Offshore Wind Farm Project, also referred to as DBD in this PEIR.

## 6.2 Impacts Register

1. This appendix to the Dogger Bank D Offshore Wind Farm Project's (herein referred to as 'the Project' or 'DBD') Preliminary Environmental Information Report (PEIR) supports **Volume 1, Chapter 6 Environmental Impact Assessment Methodology**. The Impacts Register establishes the technical scope of the Project's Environmental Impact Assessment (EIA) and summarises the impacts that have been scoped in or out of the assessment for each EIA topic (**Volume 1, Chapter 8 Marine Physical Processes** to **Volume 1, Chapter 31 Climate Change**). The Impacts Register provided in **Annex 6.2.1** should be read in conjunction with the EIA topic chapters and **Appendix 6.3 Commitments Register**. Further details on how the Impacts Register should be read are provided in **Volume 1, Chapter 6 Environmental Impact Assessment Methodology** and **Appendix 1.2 Guide to PEIR**.
2. The technical scope of the EIA has been informed by the Scoping Opinion (Planning Inspectorate, 2024), discussions and agreements with stakeholders through the Evidence Plan Process (EPP) and other technical consultation, the existing evidence base from previous EIA undertaken for other offshore wind farms and the Project Design Envelope as reported in **Volume 1, Chapter 4 Project Description**.
3. The Impacts Register is a live document, which will be maintained and updated throughout the pre-application stage and for the Development Consent Order (DCO) application. At this stage, the Impacts Register outlines all potential impacts associated with the Project's construction, operation and maintenance (O&M) and decommissioning phases that have been identified from scoping through to PEIR stage and the outcomes of the impact assessment. Each impact has a unique identification reference that can be traced through to the subsequent steps / documents. The Impacts Register will be further refined at Environmental Statement (ES) stage for the DCO application to reflect the technical scope and assessment outcomes reported in the ES.
4. **Table 6.2-1** provides a description of the components of the Impacts Register.

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*Table 6.2-1 Components of the Impacts Register*

Column in Impacts Register	Description
Impact ID	<p>A unique identification reference associated with each impact in the register. The reference comprises:</p> <ul style="list-style-type: none"> <li>• Unique reference for the EIA topic (e.g. NV for Noise and Vibration);</li> <li>• Unique reference for the project phase associated with the impact (i.e. C for construction, O for O&amp;M and D for decommissioning); and</li> <li>• Unique number for each impact.</li> </ul>
Impact	A unique name for the impact.
Project Element	Identifies the element(s) of the Project where the impact is anticipated to arise.
Project Phase	Identifies which phase(s) of the Project the impact is anticipated to occur.
Project Activity	Describes the activities associated with the Project that the impact arises from.
Commitments	Identifies commitments (i.e. embedded mitigation, additional mitigation, enhancement and monitoring measures) relevant to each impact by the unique commitment ID (e.g. CO41), see <b>Appendix 6.3 Commitments Register</b> . The definitions of each type of measure are provided in the glossary.
Project's Position at Scoping	Identifies whether the impact was proposed to be scoped in or out of the assessment in the EIA Scoping Report.
	<b>Scoped In</b>
	<b>Scoped Out</b>
Project's Position at PEIR	Identifies the assessment approach taken by the Project at PEIR stage.
	<b>Impact assessed in the PEIR.</b>
	<b>Evidence of the absence of likely significant effect provided in the PEIR.</b>
	<b>Impact scoped out at scoping stage with the Planning Inspectorate's agreement.</b>
Receptor	Identifies the receptor(s) as assessed in the PEIR.
Receptor Sensitivity / Value	Identifies the sensitivity / value of the impact's receptor(s) as assessed in the PEIR.
Impact Magnitude	Identifies the magnitude of the impact as assessed in the PEIR.



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Column in Impacts Register	Description
Effect Significance	Identifies the significance of the effect as assessed in the PEIR prior to the consideration of additional mitigation and / or enhancement measures.
Residual Effect Significance	Identifies the residual significance of the effect as assessed in the PEIR following consideration of additional mitigation and / or enhancement measures.

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List of Acronyms

Acronym	Definition
DBD	Dogger Bank D
EIA	Environmental Impact Assessment
DCO	Development Consent Order
EPP	Evidence Plan Process
PEIR	Preliminary Environmental Information Report
ES	Environmental Statement
O&M	Operation and Maintenance

## Annex 6.2.1 Impacts Register

## Chapter 8 Marine Physical Processes

Impact Details								Project Phase	Project Activity	Commitments	Scoping	Preliminary Environmental Information Report (PEIR)					
Impact ID	Impact	Array Area	Offshore Export Cable Corridor	Landfall	Onshore Export Cable Corridor	Onshore Converter Station	Energy Storage and Balancing Infrastructure					Project's Position at Scoping	Project's Position at PEIR	Receptor	Receptor Sensitivity / Value	Impact Magnitude	Effect Significance
MPP-C-01	Changes in the tidal current regime	X									Construction	Installation of structures in water column	N/A	Scoped Out	Impact scoped out at scoping stage with the Planning Inspectorate's agreement.	N/A	N/A
MPP-C-02	Changes in the wave regime			X				Construction	The use of coffer dams has the potential to create a partial and temporary barrier to longshore sediment transport in the coastal zone	N/A	Scoped In	Evidence of the absence of likely significant effect provided in the PEIR	No cofferdams will be used - scoped out.				
MPP-C-03	Changes in suspended sediment concentration, transport, and seabed level	X	X					Construction	Drilling for foundation installation	Embedded Mitigation: CO29	Scoped In	Impact assessed in the PEIR	Dogger Bank	Negligible	Near-field: Negligible Far-field: Negligible	Negligible (Not Significant)	Negligible (Not Significant)
MPP-C-04	Changes in suspended sediment concentration, transport, and seabed level	X	X					Construction	Seabed preparation for foundation installation	Embedded Mitigation: CO29	Scoped In	Impact assessed in the PEIR	Dogger Bank	Negligible	Near-field: Negligible Far-field: Negligible	Negligible (Not Significant)	Negligible (Not Significant)
MPP-C-05	Changes in suspended sediment concentration, transport, and seabed level	X	X					Construction	Inter-Array Cable and Offshore Export Cable installation including at the landfall	Embedded Mitigation: CO24 CO26 CO29	Scoped In	Impact assessed in the PEIR	Dogger Bank, Flamborough Head SSSI, Holderness Offshore MCZ, Holderness Inshore MCZ and Smithic Bank	Negligible	Near-field: Negligible Far-field: Negligible	Negligible (Not Significant)	Negligible (Not Significant)
MPP-C-06	Interruptions to bedload sediment transport	X	X					Construction	Sand wave levelling for Inter-Array Cable and Offshore Export Cable installation	Embedded Mitigation: CO24 CO26 CO29	Scoped In	Impact assessed in the PEIR	Dogger Bank, Flamborough Head SSSI, Holderness Offshore MCZ, Holderness Inshore MCZ and Smithic Bank	Negligible	Near-field: Low Far-field: Negligible	Negligible (Not Significant)	Negligible (Not Significant)
MPP-C-07	Indentations on the seabed	X	X					Construction	Presence of installation vessels	Embedded Mitigation: CO24 CO29	Scoped Out	Impact assessed in the PEIR	Dogger Bank	Negligible	Near-field: Low Far-field: No change	Negligible (Not Significant)	Negligible (Not Significant)
MPP-C-08	Changes in water circulation	X	X					Construction	Repair and maintenance activities	N/A	Scoped Out	Impact scoped out at scoping stage with the Planning Inspectorate's agreement.	N/A	N/A	N/A	N/A	N/A
MPP-C-09	Impacts on water circulation (Flamborough Front)	X						Construction	Installation of structures in water column	N/A	Scoped Out	Impact scoped out at scoping stage with the Planning Inspectorate's agreement.	N/A	N/A	N/A	N/A	N/A
MPP-O-01	Changes in the tidal current regime	X						Operation and Maintenance	Presence of infrastructure (wind turbine and offshore platform foundations)	N/A	Scoped In	Impact assessed in the PEIR	Dogger Bank	Negligible	Near-field: Low Far-field: Negligible	Negligible (Not Significant)	Negligible (Not Significant)
MPP-O-02	Changes in the wave regime	X						Operation and Maintenance	Presence of infrastructure (wind turbine and offshore platform foundations)	N/A	Scoped In	Impact assessed in the PEIR	Dogger Bank	Negligible	Near-field: Low Far-field: Negligible	Minor (Not significant)	Negligible (Not Significant)
MPP-O-03	Changes in water circulation	X						Operation and Maintenance	Presence of infrastructure (wind turbine and offshore platform foundations)	N/A	Scoped In	Impact assessed in the PEIR	Flamborough Front	Low	Near-field: Low Far-field: Negligible	Negligible (Not Significant)	Negligible (Not Significant)
MPP-O-04	Changes in bedload sediment transport and seabed morphology	X	X					Operation and Maintenance	Presence of infrastructure (wind turbine and offshore platform foundations)	N/A	Scoped In	Impact assessed in the PEIR	Dogger Bank	Negligible	Near-field: Low Far-field: Negligible	Negligible (Not Significant)	Negligible (Not Significant)
MPP-O-05	Changes in bedload sediment transport and seabed morphology	X	X					Operation and Maintenance	Presence of cable protection measures	Embedded Mitigation: CO23 CO27 CO28 CO29	Scoped In	Impact assessed in the PEIR	Dogger Bank, Flamborough Head SSSI, Holderness Offshore MCZ, Holderness Inshore MCZ and Smithic Bank	Negligible	Near-field: Low Far-field: Negligible	Negligible (Not Significant)	Negligible (Not Significant)
MPP-O-06	Changes in suspended sediment concentration, transport, and seabed level		X					Operation and Maintenance	Cable repairs and reburial	Embedded Mitigation: CO28 CO29	Scoped In	Impact assessed in the PEIR	Dogger Bank, Flamborough Head SSSI, Holderness Offshore MCZ, Holderness Inshore MCZ and Smithic Bank	Negligible	Near-field: Negligible Far-field: Negligible	Negligible (Not Significant)	Negligible (Not Significant)
MPP-O-07	Indentations on the seabed due to installation vessels	X	X					Operation and Maintenance	Installation of the foundations and cable infrastructure	N/A	Scoped Out	Impact scoped out at scoping stage with the Planning Inspectorate's agreement.	N/A	N/A	N/A	N/A	N/A
MPP-O-08	Indentations on the seabed	X	X					Operation and Maintenance	Presence of repair and maintenance vessels	Embedded Mitigation: CO24 CO29	Scoped In	Impact assessed in the PEIR	Dogger Bank	Negligible	Near-field: Low Far-field: No change	Negligible (Not Significant)	Negligible (Not Significant)
MPP-D-01	Changes in the tidal current regime	X						Decommissioning	Decommissioning activities not yet defined	Embedded Mitigation: CO21	Scoped Out	The details and scope of offshore decommissioning works will be determined by the relevant regulations and guidance at the time of decommissioning and provided in the Offshore Decommissioning Programme (see Commitment ID CO21). This will include a detailed assessment of decommissioning impacts and appropriate mitigation measures to avoid significant effects.  For this assessment, it is assumed that impacts during the decommissioning phase would be of similar nature to, and no worse than, those identified during the construction phase.					
MPP-D-02	Changes in the wave regime			X				Decommissioning	Decommissioning activities not yet defined	Embedded Mitigation: CO21	Scoped In						
MPP-D-03	Changes in suspended sediment concentration, transport, and seabed level	X	X					Decommissioning	Decommissioning activities not yet defined	Embedded Mitigation: CO21	Scoped In						
MPP-D-04	Changes in suspended sediment concentration, transport, and seabed level	X	X					Decommissioning	Decommissioning activities not yet defined	Embedded Mitigation: CO21	Scoped In						
MPP-D-05	Interruptions to bedload sediment transport	X	X					Decommissioning	Decommissioning activities not yet defined	Embedded Mitigation: CO21	Scoped In						
MPP-D-06	Indentations on the seabed	X	X					Decommissioning	Decommissioning activities not yet defined	Embedded Mitigation: CO21	Scoped In						
MPP-D-07	Impacts on water circulation (Flamborough Front)	X						Decommissioning	Decommissioning activities not yet defined	Embedded Mitigation: CO21	Scoped In						

## Chapter 9 Marine Water and Sediment Quality

Impact Details										Commitments	Preliminary Environmental Information Report (PEIR)						
Impact ID	Impact	Project Element						Project Phase	Project Activity		Scoping	Preliminary Environmental Information Report (PEIR)					
		Array Area	Offshore Export Cable Corridor	Landfall	Onshore Export Cable Corridor	Onshore Converter Station	Energy Storage and Balancing Infrastructure				Project's Position at Scoping	Project's Position at PEIR	Receptor	Receptor Sensitivity / Value	Impact Magnitude	Effect Significance	Residual Effect Significance
MWS-C-01	Effects on water quality arising suspended sediment concentrations	X	X					Construction	Installation of foundations and cables	Embedded Mitigation: CO7 CO23 CO25 CO26	Scoped In	Impact assessed in the PEIR	The water column	N/A	Negligible	Negligible (Not Significant)	Negligible (Not Significant)
MWS_C-02	Remobilisation of existing contaminated sediments - Array Area	X						Construction	Installation of cables and foundations	N/A	Scoped Out	Impact scoped out at scoping stage with the Planning Inspectorate's agreement.	N/A	N/A	N/A	N/A	N/A
MWS-C-03	Remobilisation of existing contaminated sediments in the offshore ECC		X					Construction	Installation of cables and foundations	Embedded Mitigation: CO7 CO23 CO25 CO26	Scoped In	Impact assessed in the PEIR	The water column	N/A	Negligible	Negligible (Not Significant)	Negligible (Not Significant)
MWS-C-04	Accidental pollution	X	X					Construction	Installation of cables and foundations - use of vessels	N/A	Scoped Out	Impact scoped out at scoping stage with the Planning Inspectorate's agreement.	N/A	N/A	N/A	N/A	N/A
MWS-O-02	Remobilisation of existing contaminated sediments - Array Area	X						Operation and Maintenance	Scour and routine maintenance	N/A	Scoped Out	Impact scoped out at scoping stage with the Planning Inspectorate's agreement.	N/A	N/A	N/A	N/A	N/A
MWS-O-03	Remobilisation of existing contaminated sediments in the offshore ECC		X					Operation and Maintenance	Scour and routine maintenance	Embedded Mitigation: CO7 CO25 CO26 CO28	Scoped Out	Impact assessed in the PEIR	The water column	N/A	Negligible	Negligible (Not Significant)	Negligible (Not Significant)
MWS-O-04	Accidental pollution	X	X					Operation and Maintenance	Scour and routine maintenance - use of vessels	N/A	Scoped Out	Impact scoped out at scoping stage with the Planning Inspectorate's agreement.	N/A	N/A	N/A	N/A	N/A
MWS-D-02	Remobilisation of existing contaminated sediments - Array Area	X						Decommissioning	Decommissioning activities not yet defined	Embedded Mitigation: CO21	Scoped Out	The details and scope of offshore decommissioning works will be determined by the relevant regulations and guidance at the time of decommissioning and provided in the Offshore Decommissioning Programme (see Commitment ID CO21). This will include a detailed assessment of decommissioning impacts and appropriate mitigation measures to avoid significant effects.  For this assessment, it is assumed that impacts during the decommissioning phase would be of similar nature to, and no worse than, those identified during the construction phase.					
MWS-D-03	Remobilisation of existing contaminated sediments in the offshore ECC		X					Decommissioning	Decommissioning activities not yet defined		Scoped Out						
MWS-D-04	Accidental pollution	X	X					Decommissioning	Decommissioning activities not yet defined		Scoped Out						



Chapter 10 Benthic and Intertidal Ecology

Impact Details								Project Phase	Project Activity	Commitments	Scoping	Preliminary Environmental Information Report (PEIR)					
Impact ID	Impact	Array Area	Offshore Export Cable Corridor	Landfall	Onshore Export Cable Corridor	Onshore Converter Station	Energy Storage and Balancing Infrastructure				Project's Position at Scoping	Project's Position at PEIR	Receptor	Receptor Sensitivity / Value	Impact Magnitude	Effect Significance	Residual Effect Significance
BEN-C-01	Temporary habitat loss / physical disturbance	X	X					Construction	Installation of foundations, cables, seabed preparation, sandwave levelling and indentations on the seabed from jack-up vessels	Embedded Mitigation: CO23 CO24 CO26	Scoped In	Impact assessed in the PEIR	Benthic habitats and species within the Offshore Development Area	Low – High	Negligible	Negligible – Minor Adverse (Not Significant)	Negligible – Minor Adverse (Not Significant)
BEN-C-02	Habitat loss / alteration	X	X					Construction	Installation of foundations and cables	N/A	Scoped Out	Impact scoped out at scoping stage with the Planning Inspectorate's agreement.	N/A	N/A	N/A	N/A	N/A
BEN-C-03	Increased suspended sediments and sediment re-deposition	X	X					Construction	Installation of foundations, cables and any erosion or other protection	Embedded Mitigation: CO23 CO24 CO26	Scoped In	Impact assessed in the PEIR	Benthic habitats and species within the Offshore Development Area	Not Sensitive - Medium	Negligible	Negligible – Minor Adverse (Not Significant)	Negligible – Minor Adverse (Not Significant)
BEN-C-04	Remobilisation of contaminated sediments - Array Area	X	X					Construction	Installation of foundations in the seabed	N/A	Scoped Out	Impact scoped out at scoping stage with the Planning Inspectorate's agreement.	N/A	N/A	N/A	N/A	N/A
BEN-C-05	Remobilisation of contaminated sediments - offshore ECC	X	X					Construction	Installation of export cables into the seabed	Embedded Mitigation: CO23 CO24 CO26	Scoped In	Impact assessed in the PEIR	Benthic habitats and species within the Offshore Development Area	Low	Negligible	Negligible (Not Significant)	Negligible (Not Significant)
BEN-C-06	Pollution events resulting from the accidental release of pollutants	X	X					Construction	Use of vessels for construction	N/A	Scoped Out	Impact scoped out at scoping stage with the Planning Inspectorate's agreement.	N/A	N/A	N/A	N/A	N/A
BEN-C-07	Underwater noise and vibration	X	X					Construction	Pile driving during construction activities, UXO clearance	Embedded Mitigation: CO22	Scoped In	Impact assessed in the PEIR	Benthic habitats and species within the Offshore Development Area	Negligible	Low	Negligible (Not Significant)	Negligible (Not Significant)
BEN-C-08	Interactions of EMF, including potential cumulative EMF effects	X	X					Construction	Installation of inactive cables	N/A	Scoped Out	Impact scoped out at scoping stage with the Planning Inspectorate's agreement.	N/A	N/A	N/A	N/A	N/A
BEN-C-09	Introduction of marine INNS from vessel traffic	X	X					Construction	Vessel traffic	N/A	Scoped Out	Impact scoped out at scoping stage with the Planning Inspectorate's agreement.	N/A	N/A	N/A	N/A	N/A
BEN-C-10	Sediment heating from export cables	X	X					Construction	Installation of inactive cables	N/A	Scoped Out	Impact scoped out at scoping stage with the Planning Inspectorate's agreement.	N/A	N/A	N/A	N/A	N/A
BEN-C-11	Colonisation of introduced substrate	X	X					Construction	Presence of sub-sea structures, including foundation structures	N/A	Scoped Out	Impact scoped out at scoping stage with the Planning Inspectorate's agreement.	N/A	N/A	N/A	N/A	N/A
BEN-O-01	Temporary habitat loss / physical disturbance	X	X					Operation and Maintenance	Maintenance activities, cable repairs and reburial	Embedded Mitigation: CO23 CO24 CO26 CO28 CO29	Scoped In	Impact assessed in the PEIR	Benthic habitats and species within the Offshore Development Area	Low – High	Negligible	Negligible – Minor Adverse (Not Significant)	Negligible – Minor Adverse (Not Significant)
BEN-O-02	Habitat loss / alteration	X	X					Operation and Maintenance	Presence of foundations, cable / scour protection, any erosion or other protection	Embedded Mitigation: CO23 CO24 CO26 CO28 CO29	Scoped In	Impact assessed in the PEIR	Benthic habitats and species within the Offshore Development Area	High	Negligible	Minor Adverse (Not Significant)	Minor Adverse (Not Significant)
BEN-O-03	Increased suspended sediments and sediment re-deposition	X	X					Operation and Maintenance	Operation and maintenance activities	Embedded Mitigation: CO23 CO24 CO26 CO28 CO29	Scoped In	Impact assessed in the PEIR	Benthic habitats and species within the Offshore Development Area	Not Sensitive - Medium	Negligible	Negligible – Minor Adverse (Not Significant)	Negligible – Minor Adverse (Not Significant)
BEN-O-04	Remobilisation of contaminated sediments - Array Area	X						Operation and Maintenance	Operation and maintenance activities	N/A	Scoped Out	Impact scoped out at scoping stage with the Planning Inspectorate's agreement.	N/A	N/A	N/A	N/A	N/A
BEN-O-05	Remobilisation of contaminated sediments - offshore ECC		X					Operation and Maintenance	Operation and maintenance activities	Embedded Mitigation: CO23 CO24 CO26 CO28 CO29	Scoped Out	Impact assessed in the PEIR	Benthic habitats and species within the Offshore Development Area	Negligible	Negligible	Negligible (Not Significant)	Negligible (Not Significant)
BEN-O-06	Pollution events resulting from the accidental release of pollutants	X	X					Operation and Maintenance	Use of vessels for O&M	N/A	Scoped Out	Impact scoped out at scoping stage with the Planning Inspectorate's agreement.	N/A	N/A	N/A	N/A	N/A
BEN-O-07	Underwater noise and vibration	X						Operation and Maintenance	Vessel activity and presence of operational wind turbines	Embedded Mitigation: CO22	Scoped Out	Impact assessed in the PEIR	Benthic habitats and species within the Offshore Development Area	Negligible	Low	Negligible (Not Significant)	Negligible (Not Significant)
BEN-O-08	Interactions of EMF, including potential cumulative EMF effects		X					Operation and Maintenance	Presence of operational cables	Embedded Mitigation: CO23 CO24 CO26 CO28 CO29	Scoped In	Impact assessed in the PEIR	Benthic habitats and species within the Offshore Development Area	Negligible (not relevant)	Low	Minor Adverse (Not Significant)	Minor Adverse (Not Significant)
BEN-O-09	Introduction of marine INNS from vessel traffic	X	X					Operation and Maintenance	Vessel traffic	N/A	Scoped Out	Impact scoped out at scoping stage with the Planning Inspectorate's agreement.	N/A	N/A	N/A	N/A	N/A
BEN-O-10	Sediment heating from export cables		X					Operation and Maintenance	Presence of operational offshore export cables	N/A	Scoped Out	Impact scoped out at scoping stage with the Planning Inspectorate's agreement.	N/A	N/A	N/A	N/A	N/A
BEN-O-11	Colonisation of introduced substrate	X	X					Operation and Maintenance	Presence of sub-sea structures, including foundation structures	Embedded Mitigation: CO23 CO24 CO26 CO28 CO29	Scoped In	Impact assessed in the PEIR	Benthic habitats and species within the Offshore Development Area	Not Sensitive - Medium	Negligible	Negligible – Minor Adverse (Not Significant)	Negligible – Minor Adverse (Not Significant)

Impact Details										Commitments	Scoping	Preliminary Environmental Information Report (PEIR)					
Impact ID	Impact	Project Element						Project Phase	Project Activity		Project's Position at Scoping	Project's Position at PEIR	Receptor	Receptor Sensitivity / Value	Impact Magnitude	Effect Significance	Residual Effect Significance
		Array Area	Offshore Export Cable Corridor	Landfall	Onshore Export Cable Corridor	Onshore Converter Station	Energy Storage and Balancing Infrastructure										
BEN-D-01	Temporary habitat loss / physical disturbance	X	X					Decommissioning	Decommissioning activities not yet defined	Embedded Mitigation: CO21	Scoped In	The details and scope of offshore decommissioning works will be determined by the relevant regulations and guidance at the time of decommissioning and provided in the Offshore Decommissioning Programme (see Commitment ID CO21). This will include a detailed assessment of decommissioning impacts and appropriate mitigation measures to avoid significant effects.  For this assessment, it is assumed that impacts during the decommissioning phase would be of similar nature to, and no worse than, those identified during the construction phase					
BEN-D-02	Habitat loss / alteration	X	X					Decommissioning	Decommissioning activities not yet defined		Scoped In						
BEN-D-03	Increased suspended sediments and sediment re-deposition	X	X					Decommissioning	Decommissioning activities not yet defined		Scoped In						
BEN-D-04	Remobilisation of contaminated sediments - Array Area	X						Decommissioning	Decommissioning activities not yet defined		Scoped Out						
BEN-D-05	Remobilisation of contaminated sediments - offshore ECC		X					Decommissioning	Decommissioning activities not yet defined		Scoped In						
BEN-D-06	Pollution events resulting from the accidental release of pollutants	X	X					Decommissioning	Decommissioning activities not yet defined		Scoped Out						
BEN-D-07	Underwater noise and vibration	X						Decommissioning	Decommissioning activities not yet defined		Scoped In						
BEN-D-08	Interactions of EMF, including potential cumulative EMF effects		X					Decommissioning	Decommissioning activities not yet defined		Scoped Out						
BEN-D-09	Introduction of marine INNS from vessel traffic	X	X					Decommissioning	Decommissioning activities not yet defined		Scoped Out						
BEN-D-10	Sediment heating from export cables		X					Decommissioning	Decommissioning activities not yet defined		Scoped Out						
BEN-D-11	Colonisation of introduced substrate	X	X					Decommissioning	Decommissioning activities not yet defined		Scoped In						

## Chapter 11 Fish and Shellfish Ecology

Impact Details										Commitments	Scoping		Preliminary Environmental Information Report (PEIR)					
Impact ID	Impact	Project Element						Project Phase	Project Activity		Project's Position at Scoping	Project's Position at PEIR	Receptor	Receptor Sensitivity / Value	Impact Magnitude	Effect Significance	Residual Effect Significance	
		Array Area	Offshore Export Cable Corridor	Landfall	Onshore Export Cable Corridor	Onshore Converter Station	Energy Storage and Balancing Infrastructure											
FSE-C-01	Accidental release of pollutants	X	X					Construction	Construction activities	N/A	Scoped Out	Impact scoped out at scoping stage with the Planning Inspectorate's agreement.	N/A	N/A	N/A	N/A	N/A	
FSE-C-02	Temporary habitat loss / physical disturbance	X	X					Construction	Construction activities	Embedded Mitigation: CO23 CO24 CO26	Scoped In	Impact assessed in the PEIR	All	Low-medium	Low	Minor Adverse (Not Significant)	Minor Adverse (Not Significant)	
FSE-C-03	Habitat loss / alteration	X	X					Construction	Construction activities	N/A	Scoped Out	Impact scoped out at scoping stage with the Planning Inspectorate's agreement.	N/A	N/A	N/A	N/A	N/A	
FSE-C-04	Increased suspended sediment and sediment-redeposition	X	X					Construction	Construction activities	Embedded Mitigation: CO23 CO24 CO26	Scoped In	Impact assessed in the PEIR	All	Low-medium	Low	Minor Adverse (Not Significant)	Minor Adverse (Not Significant)	
FSE-C-05	Remobilisation of contaminated sediments if present - Array Area	X						Construction	Construction activities	N/A	Scoped Out	Impact scoped out at scoping stage with the Planning Inspectorate's agreement.	N/A	N/A	N/A	N/A	N/A	
FSE-C-06	Remobilisation of contaminated sediments if present - offshore ECC		X					Construction	Construction activities	Embedded Mitigation: CO23 CO24 CO26	Scoped In	Impact assessed in the PEIR	All	Negligible	Negligible	Negligible (Not Significant)	Negligible (Not Significant)	
FSE-C-07	Underwater noise and vibration	X	X					Construction	Construction activities	Embedded Mitigation: CO22 CO26	Scoped In	Impact assessed in the PEIR	All	Low-medium	Low	Minor Adverse (Not Significant)	Minor Adverse (Not Significant)	
FSE-C-08	Changes in fishing pressure	X	X					Construction	Construction activities	Embedded Mitigation: CO26	Scoped In	Impact assessed in the PEIR	All	Low	Low	Minor Adverse (Not Significant)	Minor Adverse (Not Significant)	
FSE-C-09	EMF effects		X					Construction	Construction activities	N/A	Scoped Out	Impact scoped out at scoping stage with the Planning Inspectorate's agreement.	N/A	N/A	N/A	N/A	N/A	
FSE-C-10	Sediment heating from export cables		X					Construction	Construction activities	N/A	Scoped Out	Impact scoped out at scoping stage with the Planning Inspectorate's agreement.	N/A	N/A	N/A	N/A	N/A	
FSE-C-11	Introduction of hard substrate	X	X					Construction	Construction activities	N/A	Scoped Out	Impact scoped out at scoping stage with the Planning Inspectorate's agreement.	N/A	N/A	N/A	N/A	N/A	
FSE-O-01	Accidental release of pollutants	X	X					Operation and Maintenance	Maintenance activities	N/A	Scoped Out	Impact scoped out at scoping stage with the Planning Inspectorate's agreement.	N/A	N/A	N/A	N/A	N/A	
FSE-O-02	Temporary habitat loss / physical disturbance	X	X					Operation and Maintenance	Maintenance activities	Embedded Mitigation: CO26 CO28	Scoped In	Impact assessed in the PEIR	All	Low-medium	Low	Minor Adverse (Not Significant)	Minor Adverse (Not Significant)	
FSE-O-03	Habitat loss / alteration	X	X					Operation and Maintenance	Foundations and scour protection on the seabed and cable protection	Embedded Mitigation: CO24 CO28	Scoped In	Impact assessed in the PEIR	All	Medium-high	Negligible	Negligible-Minor Adverse (Not Significant)	Minor Adverse (Not Significant)	
FSE-O-04	Increased suspended sediment and sediment-redeposition	X	X					Operation and Maintenance	Maintenance activities	Embedded Mitigation: CO28	Scoped In	Impact assessed in the PEIR	All	Low-medium	Low	Minor Adverse (Not Significant)	Minor Adverse (Not Significant)	
FSE-O-05	Remobilisation of contaminated sediments if present - Array Area	X						Operation and Maintenance	Maintenance activities	N/A	Scoped Out	Impact scoped out at scoping stage with the Planning Inspectorate's agreement.	N/A	N/A	N/A	N/A	N/A	
FSE-O-06	Remobilisation of contaminated sediments if present - offshore ECC		X					Operation and Maintenance	Maintenance activities	Embedded Mitigation: CO28	Scoped In	Impact assessed in the PEIR	All	Negligible	Negligible	Negligible (Not Significant)	Negligible (Not Significant)	
FSE-O-07	Underwater noise and vibration	X	X					Operation and Maintenance	Operation of wind turbines	Embedded Mitigation: CO28	Scoped In	Impact assessed in the PEIR	All	Low-medium	Negligible	Negligible-Minor Adverse (Not Significant)	Negligible-Minor Adverse (Not Significant)	
FSE-O-08	Changes in fishing pressure	X	X					Operation and Maintenance	Maintenance activities	Embedded Mitigation: CO28	Scoped In	Impact assessed in the PEIR	All	Low	Low	Minor Adverse (Not Significant)	Minor Adverse (Not Significant)	
FSE-O-09	EMF effects		X					Operation and Maintenance	Transmission of electricity	Embedded Mitigation: CO28	Scoped In	Impact assessed in the PEIR	All	Low-medium	Negligible	Negligible-Minor Adverse (Not Significant)	Minor Adverse (Not Significant)	
FSE-O-10	Sediment heating from export cables		X					Operation and Maintenance	Transmission of electricity	Embedded Mitigation: CO28	Scoped Out	Impact assessed in the PEIR	All	Medium-High	Negligible-Low	Minor Adverse (Not Significant)	Minor Adverse (Not Significant)	
FSE-O-11	Introduction of hard substrate	X	X					Operation and Maintenance	Presence of concrete and steel structures	Embedded Mitigation: CO24 CO28	Scoped In	Impact assessed in the PEIR	All	Low-medium	Low	Minor Adverse (Not Significant)	Minor Adverse (Not Significant)	
FSE-D-01	Accidental release of pollutants	X	X					Decommissioning	Decommissioning activities not yet defined	Embedded Mitigation: CO21	Scoped Out	The details and scope of offshore decommissioning works will be determined by the relevant regulations and guidance at the time of decommissioning and provided in the Offshore Decommissioning Programme (see Commitment ID CO21). This will include a detailed assessment of decommissioning impacts and appropriate mitigation measures to avoid significant effects.  For this assessment, it is assumed that impacts during the decommissioning phase would be of similar nature to, and no worse than, those identified during the construction phase						
FSE-D-02	Temporary habitat loss / physical disturbance	X	X					Decommissioning	Decommissioning activities not yet defined		Scoped In							
FSE-D-03	Habitat loss / alteration	X	X					Decommissioning	Decommissioning activities not yet defined		Scoped In							
FSE-D-04	Increased suspended sediment and sediment-redeposition	X	X					Decommissioning	Decommissioning activities not yet defined		Scoped In							
FSE-D-05	Remobilisation of contaminated sediments if present - Array Area	X						Decommissioning	Decommissioning activities not yet defined		Scoped Out							
FSE-D-06	Remobilisation of contaminated sediments if present - offshore ECC		X					Decommissioning	Decommissioning activities not yet defined		Scoped In							
FSE-D-07	Underwater noise and vibration	X	X					Decommissioning	Decommissioning activities not yet defined		Scoped In							
FSE-D-08	Changes in fishing pressure	X	X					Decommissioning	Decommissioning activities not yet defined		Scoped In							
FSE-D-09	EMF effects		X					Decommissioning	Decommissioning activities not yet defined		Scoped Out							
FSE-D-10	Sediment heating from export cables		X					Decommissioning	Decommissioning activities not yet defined		Scoped Out							
FSE-D-11	Introduction of hard substrate	X	X					Decommissioning	Decommissioning activities not yet defined		Scoped In							



Chapter 12 Marine Mammals

Impact ID	Impact	Impact Details						Project Phase	Project Activity	Commitments	Scoping		Preliminary Environmental Information Report (PEIR)					
		Array Area	Offshore Export Cable Corridor	Landfall	Onshore Export Cable Corridor	Onshore Converter Station	Energy Storage and Balancing Infrastructure				Project's Position at Scoping	Project's Position at PEIR	Receptor	Receptor Sensitivity / Value	Impact Magnitude	Effect Significance	Residual Effect Significance	
MM-C-01	Underwater noise: physical and auditory injury	X						Construction	Underwater noise from piling activities	Embedded Mitigation / Additional Mitigation: CO22	Scoped In	Impact assessed in the PEIR	All	High (PTS) - Medium (TTS)	Negligible (PTS single strike) Negligible (TTS single strike)	Minor Adverse (Not Significant) Negligible Adverse (Not Significant)	Minor Adverse (Not Significant) Negligible Adverse (Not Significant)	
													Harbour porpoise		Major Adverse (PTS sequential piling) (Significant) Major Adverse (PTS concurrent piling) (Significant) Negligible (TTS sequential piling) Low (TTS concurrent piling)	Major Adverse (PTS sequential piling) (Significant) Major Adverse (PTS concurrent piling) (Significant) Negligible Adverse (TTS sequential piling) (Not Significant) Minor Adverse (TTS concurrent piling) (Not Significant)	Minor Adverse (PTS sequential piling) (Not Significant) Minor Adverse (PTS concurrent piling) (Not Significant) Negligible Adverse (TTS sequential piling) (Not Significant) Minor Adverse (TTS concurrent piling) (Not Significant)	
													Bottlenose dolphin		Negligible (PTS sequential piling) Negligible (PTS concurrent piling) Negligible (TTS sequential piling) Negligible (TTS concurrent piling)	Minor Adverse (PTS sequential piling) (Not Significant) Minor Adverse (PTS concurrent piling) (Not Significant) Negligible Adverse (TTS sequential piling) (Not Significant) Negligible Adverse (TTS concurrent piling) (Not Significant)	Minor Adverse (PTS sequential piling) (Not Significant) Minor Adverse (PTS concurrent piling) (Not Significant) Negligible Adverse (TTS sequential piling) (Not Significant) Negligible Adverse (TTS concurrent piling) (Not Significant)	
													Minke whale		Medium (mono) - low (pin) (PTS sequential piling) Medium (PTS concurrent piling) Negligible (TTS sequential piling) Negligible (TTS concurrent piling)	Major (mono) - Moderate adverse (pin) (PTS sequential piling) (significant) Major adverse (PTS concurrent piling) (significant) Negligible adverse (TTS sequential piling) (not significant) Negligible adverse (TTS concurrent piling) (not significant)	Minor adverse (mono and pin) (PTS sequential piling) Minor adverse (PTS concurrent piling) (not significant) Negligible adverse (TTS sequential piling) (not significant) Negligible adverse (TTS concurrent piling) (not significant)	
													Common dolphin		Negligible (PTS sequential piling) Negligible (PTS concurrent piling) Negligible (TTS sequential piling) Negligible (TTS concurrent piling)	Minor Adverse (PTS sequential piling) (Not Significant) Minor Adverse (PTS concurrent piling) (Not Significant) Negligible Adverse (TTS sequential piling) (Not Significant) Negligible Adverse (TTS concurrent piling) (Not Significant)	Minor Adverse (PTS sequential piling) (Not Significant) Minor Adverse (PTS concurrent piling) (Not Significant) Negligible Adverse (TTS sequential piling) (Not Significant) Negligible Adverse (TTS concurrent piling) (Not Significant)	
													White-beaked dolphin		Negligible (PTS sequential piling) Negligible (PTS concurrent piling) Negligible (TTS sequential piling) Negligible (TTS concurrent piling)	Minor Adverse (PTS sequential piling) (Not Significant) Minor Adverse (PTS concurrent piling) (Not Significant) Negligible Adverse (TTS sequential piling) (Not Significant) Negligible Adverse (TTS concurrent piling) (Not Significant)	Minor Adverse (PTS sequential piling) (Not Significant) Minor Adverse (PTS concurrent piling) (Not Significant) Negligible Adverse (TTS sequential piling) (Not Significant) Negligible Adverse (TTS concurrent piling) (Not Significant)	
													Grey seal		Negligible (PTS sequential piling) Negligible (PTS concurrent piling) Negligible (TTS sequential piling) Negligible (TTS concurrent piling)	Minor Adverse (PTS sequential piling) (Not Significant) Minor Adverse (PTS concurrent piling) (Not Significant) Negligible Adverse (TTS sequential piling) (Not Significant) Negligible Adverse (TTS concurrent piling) (Not Significant)	Minor Adverse (PTS sequential piling) (Not Significant) Minor Adverse (PTS concurrent piling) (Not Significant) Negligible Adverse (TTS sequential piling) (Not Significant) Negligible Adverse (TTS concurrent piling) (Not Significant)	
													Harbour seal		Negligible (PTS sequential piling) Negligible (PTS concurrent piling) Negligible (TTS sequential piling) Negligible (TTS concurrent piling)	Minor Adverse (PTS sequential piling) (Not Significant) Minor Adverse (PTS concurrent piling) (Not Significant) Negligible Adverse (TTS sequential piling) (Not Significant) Negligible Adverse (TTS concurrent piling) (Not Significant)	Minor Adverse (PTS sequential piling) (Not Significant) Minor Adverse (PTS concurrent piling) (Not Significant) Negligible Adverse (TTS sequential piling) (Not Significant) Negligible Adverse (TTS concurrent piling) (Not Significant)	
MM-C-02	Underwater noise: behavioural impacts	X						Construction	Underwater noise from piling activities, the presence of vessels	N/A	Scoped In	Impact assessed in the PEIR	Harbour porpoise and bottlenose dolphin	Medium	Negligible - Low	Negligible - Minor Adverse (Not Significant)	Negligible - Minor Adverse (Not Significant)	
													Common dolphin, white-beaked dolphin and grey seal		Negligible	Negligible Adverse (Not Significant)	Negligible Adverse (Not Significant)	
													Minke whale and harbour seal		Negligible	Negligible - Minor Adverse (Not Significant)	Negligible - Minor Adverse (Not Significant)	
MM-C-03	Underwater noise: physical and auditory injury	X						Construction	Auditory injury due to operational and maintenance noise, operation of wind turbines - operation and maintenance phase only	N/A	Scoped Out	Impact scoped out at scoping stage with the Planning Inspectorate's agreement.	N/A	N/A	N/A	N/A		
MM-C-04	Underwater noise: behavioural impacts	X						Construction	Operation of wind turbines	N/A	Scoped Out	Impact scoped out at scoping stage with the Planning Inspectorate's agreement.	N/A	N/A	N/A	N/A		
MM-C-05	Underwater noise: physical and auditory injury resulting from noise associated with other construction and maintenance activities	X	X					Construction	Installation of offshore infrastructure, presence of vessels and vessel traffic	Embedded Mitigation: CO18	Scoped In	Impact assessed in the PEIR	All	Medium	Negligible	Negligible Adverse (Not Significant)	Negligible Adverse (Not Significant)	
MM-C-06	Underwater noise: behavioural impacts resulting from other construction and maintenance activities)	X	X					Construction	Installation of offshore infrastructure, presence of vessels and vessel traffic	Embedded Mitigation: CO18	Scoped In	Impact assessed in the PEIR	Harbour porpoise, minke whale, common dolphin, white-beaked dolphin, grey seal and harbour seal	Medium	Negligible	Negligible Adverse (Not Significant)	Negligible Adverse (Not Significant)	
											Scoped In		Bottlenose dolphin	Medium	Negligible - Low (other construction activities) Low (vessels)	Negligible - Minor Adverse (Not Significant)	Negligible - Minor adverse (Not Significant)	
MM-C-07	Barrier effects due to underwater noise	X	X					Construction	Piling activities and other construction activities, and presence of vessels offshore	N/A	Scoped In	Impact assessed in the PEIR	All	Medium	Negligible	Negligible Adverse (Not Significant)	Negligible Adverse (Not Significant)	

Impact Details										Commitments	Scoping		Preliminary Environmental Information Report (PEIR)					
Impact ID	Impact	Project Element					Project Phase	Project Activity	Project's Position at Scoping		Project's Position at PEIR	Receptor	Receptor Sensitivity / Value	Impact Magnitude	Effect Significance	Residual Effect Significance		
		Array Area	Offshore Export Cable Corridor	Landfall	Onshore Export Cable Corridor	Onshore Converter Station											Energy Storage and Balancing Infrastructure	
MM-C-08	Disturbance at seal haul-out sites	X	X	X				Construction	Landfall works, and vessel transits to and from the Project and the local port	Embedded Mitigation: CO19	Scoped In	Impact assessed in the PEIR	Grey seal Harbour seal	Medium	Negligible - Low	Negligible - Minor Adverse (Not Significant)	Negligible - Minor Adverse (Not Significant)	
MM-C-09	Vessel interaction (increase in risk of collision)	X	X					Construction	Vessel movement relating to all aspects of construction of the Project	Embedded Mitigation: CO18	Scoped In	Impact assessed in the PEIR	Harbour porpoise, bottlenose dolphin, common dolphin, white-beaked dolphin, grey seal and harbour seal	Low	Low	Minor Adverse (Not Significant)	Minor Adverse (Not Significant)	
											Scoped In		Minke whale	Medium	Low	Minor Adverse (Not Significant)	Minor Adverse (Not Significant)	
MM-C-10	Changes to prey resource	X	X					Construction	Construction of wind turbines, cables and foundations	Embedded Mitigation: CO25	Scoped In	Impact assessed in the PEIR	Harbour porpoise and minke whale	Low - Medium	Negligible - Low	Negligible - Minor Adverse (Not Significant)	Negligible - Minor Adverse (Not Significant)	
											Scoped In		Bottlenose dolphin, common dolphin, white-beaked dolphin, grey seal and harbour seal	Low	Negligible - Low	Negligible - Minor Adverse (Not Significant)	Negligible - Minor Adverse (Not Significant)	
MM-C-11	Changes to water quality (Sediment bound contaminants in the Array Area)	X						Construction	Construction of wind turbines, cables and foundations	N/A	Scoped Out	Impact scoped out at scoping stage with the Planning Inspectorate's agreement.	N/A	N/A	N/A	N/A	N/A	
MM-C-12	Changes to water quality (Sediment bound contaminants in the offshore ECC)		X					Construction	Installation of cables and foundations	Embedded Mitigation: CO25	Scoped In	Impact assessed in the PEIR	All	Negligible	Negligible	Negligible Adverse (Not Significant)	Negligible Adverse (Not Significant)	
MM-C-13	Physical barrier effect	X	X	X				Construction	Construction of wind farm infrastructure	N/A	Scoped Out	Impact scoped out at scoping stage with the Planning Inspectorate's agreement.						
MM-C-14	Effects from EMF		X					Construction	Removal of wind farm infrastructure	N/A	Scoped Out	Impact scoped out at scoping stage with the Planning Inspectorate's agreement.	N/A	N/A	N/A	N/A	N/A	
MM-O-01	Underwater noise: physical and auditory injury resulting from impact piling during construction	X						Operation and Maintenance	Underwater noise from piling activities - only in construction phase	N/A	Scoped Out	Impact scoped out at scoping stage with the Planning Inspectorate's agreement.	N/A	N/A	N/A	N/A	N/A	
MM-O-02	Underwater noise: behavioural impacts resulting from impact piling during construction	X						Operation and Maintenance	Underwater noise from piling activities, the presence of vessels	N/A	Scoped Out	Impact scoped out at scoping stage with the Planning Inspectorate's agreement.	N/A	N/A	N/A	N/A	N/A	
MM-O-03	Underwater noise: physical and auditory injury	X						Operation and Maintenance	Operational and maintenance noise, operation of wind turbines	N/A	Scoped In	Impact assessed in the PEIR	All	Medium	Negligible	Negligible Adverse (Not Significant)	Negligible Adverse (Not Significant)	
MM-O-04	Underwater noise: behavioural impacts	X						Operation and Maintenance	Operation of wind turbines	N/A	Scoped In	Impact assessed in the PEIR	Harbour porpoise, bottlenose dolphin, common dolphin, white-beaked dolphin, grey seal and harbour seal	Low	Negligible	Negligible Adverse (Not Significant)	Negligible Adverse (Not Significant)	
										N/A	Scoped In		Minke whale	Medium	Negligible	Negligible Adverse (Not Significant)	Negligible Adverse (Not Significant)	
MM-O-05	Underwater noise: physical and auditory injury resulting from noise associated with other operational and maintenance activities	X	X					Operation and Maintenance	Maintenance of infrastructure, presence of vessels and vessel traffic	N/A	Scoped In	Impact assessed in the PEIR	All	Medium	Negligible	Negligible Adverse (Not Significant)	Negligible Adverse (Not Significant)	
MM-O-06	Underwater noise: behavioural impacts resulting from other operational and maintenance activities	X	X					Operation and Maintenance	Maintenance of infrastructure, presence of vessels and vessel traffic	Embedded Mitigation: CO28	Scoped In	Impact assessed in the PEIR	Harbour porpoise, minke whale, common dolphin, white-beaked dolphin, grey seal and harbour seal	Medium	Negligible	Negligible Adverse (Not Significant)	Negligible Adverse (Not Significant)	
											Scoped In		Bottlenose dolphin	Medium	Negligible - Low	Negligible - Minor Adverse (Not Significant)	Negligible - Minor Adverse (Not Significant)	
MM-O-07	Underwater noise: barrier effects	X	X					Operation and Maintenance	Underwater noise due to the operation of the wind turbines, as well as disturbance associated with underwater noise from O&M activities along with the presence of vessels offshore	N/A	Scoped In	Impact assessed in the PEIR	All	Medium	Negligible	Negligible Adverse (Not Significant)	Negligible Adverse (Not Significant)	
MM-O-08	Disturbance at seal haul-out sites	X	X	X				Operation and Maintenance	Landfall works, and vessel transits to and from the Project and the local port	Embedded Mitigation: CO18 CO28	Scoped In	Impact assessed in the PEIR	Grey seal Harbour seal	Low	Low	Minor Adverse (Not Significant)	Minor Adverse (Not Significant)	
MM-O-09	Vessel interaction (increase in risk of collision)	X	X					Operation and Maintenance	All vessel movements relating to operation and maintenance activities	Embedded Mitigation: CO18 CO28	Scoped In	Impact assessed in the PEIR	Harbour porpoise, bottlenose dolphin, common dolphin, white-beaked dolphin, grey seal and harbour seal	Low	Low	Minor Adverse (Not Significant)	Minor Adverse (Not Significant)	
											Scoped In		Minke whale	Medium	Low	Minor Adverse (Not Significant)	Minor Adverse (Not Significant)	
MM-O-10	Changes to prey resource	X	X					Operation and Maintenance	Presence of wind turbines, cables and foundations	Embedded Mitigation: CO25	Scoped In	Impact assessed in the PEIR	Harbour porpoise and minke whale	Low - Medium	Negligible	Negligible Adverse (Not Significant)	Negligible Adverse (Not Significant)	
											Scoped In		Bottlenose dolphin, common dolphin, white-beaked dolphin, grey seal and harbour seal	Low	Negligible	Negligible Adverse (Not Significant)	Negligible Adverse (Not Significant)	
MM-O-11	Changes to water quality (Sediment bound contaminants in the Array Area)	X						Operation and Maintenance	Presence of wind turbines, cables and foundations	N/A	Scoped Out	Impact scoped out at scoping stage with the Planning Inspectorate's agreement.	N/A	N/A	N/A	N/A	N/A	
MM-O-12	Changes to water quality (Sediment bound contaminants in the offshore ECC)		X					Operation and Maintenance	Presence of cables and foundations	Embedded Mitigation: CO25	Scoped In	Impact assessed in the PEIR	All	Negligible	Negligible	Negligible Adverse (Not Significant)	Negligible Adverse (Not Significant)	
MM-O-13	Physical barrier effect	X						Operation and Maintenance	Presence of wind farm infrastructure	N/A	Scoped In	Impact assessed in the PEIR	All	Medium	Negligible	Negligible Adverse (Not Significant)	Negligible Adverse (Not Significant)	
MM-O-14	Effects from EMF		X					Operation and Maintenance	Transmission of electricity through cables and EMF emissions in the water column	N/A	Scoped Out	Impact scoped out at scoping stage with the Planning Inspectorate's agreement.	N/A	N/A	N/A	N/A	N/A	
MM-D-01	Underwater noise: physical and auditory injury	X						Decommissioning	Decommissioning activities not yet defined	Embedded Mitigation: CO21	Scoped Out	Impact scoped out at scoping stage with the Planning Inspectorate's agreement.	N/A	N/A	N/A	N/A	N/A	
MM-D-02	Underwater noise: behavioural impacts	X						Decommissioning	Decommissioning activities not yet defined		Scoped Out	Impact scoped out at scoping stage with the Planning Inspectorate's agreement.	N/A	N/A	N/A	N/A	N/A	
MM-D-03	Underwater noise: physical and auditory injury	X						Decommissioning	Decommissioning activities not yet defined		Scoped Out	Impact scoped out at scoping stage with the Planning Inspectorate's agreement.	N/A	N/A	N/A	N/A	N/A	
MM-D-04	Underwater noise: behavioural impacts							Decommissioning	Decommissioning activities not yet defined		Scoped Out	Impact scoped out at scoping stage with the Planning Inspectorate's agreement.	N/A	N/A	N/A	N/A	N/A	
MM-D-05	Underwater noise: physical and auditory injury resulting from noise associated with other construction and maintenance activities	X	X					Decommissioning	Decommissioning activities not yet defined		Scoped In	The details and scope of offshore decommissioning works will be determined by the relevant regulations and guidance at the time of decommissioning and provided in the Offshore Decommissioning Programme (see Commitment ID CO21). This will include a detailed assessment of decommissioning impacts and appropriate mitigation measures to avoid significant effects.  For this assessment, it is assumed that impacts during the decommissioning phase would be of similar nature to, and no worse than, those identified during the construction phase						
MM-D-06	Underwater noise: behavioural impacts resulting from other construction and maintenance activities	X	X					Decommissioning	Decommissioning activities not yet defined		Scoped In							
MM-D-07	Underwater noise: barrier effects	X	X					Decommissioning	Decommissioning activities not yet defined		Scoped In							
MM-D-08	Disturbance at seal haul-out sites	X	X	X				Decommissioning	Decommissioning activities not yet defined		Scoped In							
MM-D-09	Vessel interaction (increase in risk of collision)	X	X					Decommissioning	Decommissioning activities not yet defined		Scoped In							
MM-D-10	Changes to prey resource	X	X					Decommissioning	Decommissioning activities not yet defined		Scoped In							
MM-D-11	Changes to water quality (Sediment bound contaminants in the Array Area)	X						Decommissioning	Decommissioning activities not yet defined		Scoped Out							
MM-D-12	Changes to water quality (Sediment bound contaminants in the offshore ECC)		X					Decommissioning	Decommissioning activities not yet defined		Scoped In							
MM-D-13	Physical barrier effect	X	X					Decommissioning	Decommissioning activities not yet defined		Scoped Out							
MM-D-14	Effects from EMF		X					Decommissioning	Decommissioning activities not yet defined		Scoped Out							



Chapter 13 Intertidal and Offshore Ornithology

Impact Details										Commitments	Scoping	Preliminary Environmental Information Report (PEIR)					
Impact ID	Impact	Project Element						Project Phase	Project Activity		Project's Position at Scoping	Project's Position at PEIR	Receptor	Receptor Sensitivity / Value	Impact Magnitude	Effect Significance	Residual Effect Significance
		Array Area	Offshore Export Cable Corridor	Landfall	Onshore Export Cable Corridor	Onshore Converter Station	Energy Storage and Balancing Infrastructure										
ORN-C-01	Direct disturbance and displacement due to work activity in the Array Area, Offshore ECC or landfall - intertidal and offshore	X	X	X				Construction	Installation of offshore and landfall infrastructure	<b>Embedded Mitigation:</b> CO30 CO92  <b>Additional Mitigation:</b> CO18 CO19	Scoped In	Impact assessed in the PEIR	Red-throated diver (Offshore ECC) Red-throated diver (Landfall Site) Common scoter (Landfall Site) Sanderling (Landfall Site) Oystercatcher (Landfall Site)	High High High Medium Medium	Negligible Low Low Low Low	Minor Adverse (Not Significant) Moderate Adverse (Significant) Moderate Adverse (Significant) Minor Adverse (Not Significant) Minor Adverse (Not Significant)	Negligible (Not Significant) Minor Adverse (Not Significant) Minor Adverse (Not Significant) Minor Adverse (Not Significant) Minor Adverse (Not Significant)
ORN-C-02	Direct disturbance and displacement due to presence of wind turbines and other offshore infrastructure - offshore (red-throated diver, gannet, auks)	X	X	X				Construction	Installation of offshore and landfall infrastructure	<b>Embedded Mitigation:</b> CO22 CO25 CO30	Scoped In	Impact assessed in the PEIR	Guillemot Razorbill Puffin Great northern diver Gannet	Medium Medium Medium Medium Medium	Negligible-low Negligible-low Negligible-low Negligible-low Negligible	Minor Adverse (Not Significant) Minor Adverse (Not Significant) Minor Adverse (Not Significant) Minor Adverse (Not Significant) Minor Adverse (Not Significant)	Minor Adverse (Not Significant) Minor Adverse (Not Significant) Minor Adverse (Not Significant) Minor Adverse (Not Significant) Minor Adverse (Not Significant)
ORN-C-03	Barrier effect due to presence of wind turbines and other offshore infrastructure - offshore (including migratory non-seabirds)	X						Construction	Construction of wind turbines	N/A	Scoped Out	Impact scoped out at scoping stage with the Planning Inspectorate's agreement.	N/A	N/A	N/A	N/A	N/A
ORN-C-04	Accidental pollution	X	X					Construction	Use of operational vessels	N/A	Scoped Out	Impact scoped out at scoping stage with the Planning Inspectorate's agreement.	N/A	N/A	N/A	N/A	N/A
ORN-C-05	Indirect impacts via habitats or prey availability - intertidal and offshore	X	X					Construction	Construction activities e.g. installation of cables and foundations	<b>Embedded Mitigation:</b> CO19 CO92	Scoped In	Impact assessed in the PEIR	Greater Wash SPA supporting habitats (Landfall Site) Greater Wash SPA designated features (Landfall Site) Common gull, black-headed gull, herring gull, great black-backed gull (Landfall Site) Sanderling, Oystercatcher (Landfall Site) Red-throated diver (Offshore ECC) Seabirds (Array Area) Great northern diver (Array Area)	Medium High Medium Medium High Low-medium High	Negligible Negligible Low Low Negligible Negligible Negligible	Minor Adverse (Not Significant) Minor Adverse (Not Significant) Minor Adverse (Not Significant) Minor Adverse (Not Significant) Minor Adverse (Not Significant) Negligible-Minor Adverse (Not Significant) Minor Adverse (Not Significant)	Minor Adverse (Not Significant) Minor Adverse (Not Significant) Minor Adverse (Not Significant) Minor Adverse (Not Significant) Negligible (Not Significant) Negligible-Minor Adverse (Not Significant) Minor Adverse (Not Significant)
ORN-C-06	Collision risk - offshore (kittiwake, gannet, migratory non-seabirds)	X						Construction	Presence of wind turbines	N/A	Scoped Out	Impact scoped out at scoping stage with the Planning Inspectorate's agreement.	N/A	N/A	N/A	N/A	N/A
ORN-O-01	Direct disturbance and displacement due to work activity in the Array Area, offshore ECC or landfall - intertidal and offshore	X						Operation and Maintenance	Maintenance of wind turbines and other infrastructure	<b>Embedded Mitigation:</b> CO18 CO22 CO25 CO30	Scoped In	Impact assessed in the PEIR	Red-throated diver (Offshore ECC) Red-throated diver (Landfall Site) Common scoter (Landfall Site) Sanderling (Landfall Site) Oystercatcher (Landfall Site)	High High High Medium Medium	Low Negligible Negligible Negligible Negligible	Minor Adverse (Not Significant) Minor Adverse (Not Significant) Minor Adverse (Not Significant) Minor Adverse (Not Significant) Minor Adverse (Not Significant)	Minor Adverse (Not Significant) Minor Adverse (Not Significant) Minor Adverse (Not Significant) Minor Adverse (Not Significant) Minor Adverse (Not Significant)
ORN-O-02	Direct disturbance and displacement due to presence of wind turbines and other offshore infrastructure - offshore (red-throated diver, gannet, auks)	X						Operation and Maintenance	Presence of wind turbines and other infrastructure	<b>Embedded Mitigation:</b> CO13 CO22 CO25 CO30	Scoped In	Impact assessed in the PEIR	Little auk Guillemot Razorbill Puffin Great northern diver White-billed diver	Low Medium Medium Medium Medium Low	Negligible Negligible Negligible Negligible Negligible Negligible	Negligible (Not Significant) Minor Adverse (Not Significant) Minor Adverse (Not Significant) Minor Adverse (Not Significant) Minor Adverse (Not Significant) Negligible (Not Significant)	Negligible (Not Significant) Minor Adverse (Not Significant) Minor Adverse (Not Significant) Minor Adverse (Not Significant) Minor Adverse (Not Significant) Negligible (Not Significant)
ORN-O-03	Barrier effect due to presence of wind turbines and other offshore infrastructure - offshore (including migratory non-seabirds)	X						Operation and Maintenance	Presence of operational wind turbines	N/A	Scoped In	Impact assessed in the PEIR	Gannet Migratory birds Kittiwake Fulmar Gannet	Medium Low-high Low Low Medium	Negligible Negligible Negligible Negligible Negligible	Negligible-Minor Adverse (Not Significant) Negligible (Not Significant) Negligible (Not Significant) Negligible (Not Significant) Minor Adverse (Not Significant)	Minor Adverse (Not Significant) Negligible-minor Negligible (Not Significant) Negligible (Not Significant) Minor
ORN-O-04	Accidental pollution	X	X					Operation and Maintenance	Use of operational vessels	N/A	Scoped Out	Impact scoped out at scoping stage with the Planning Inspectorate's agreement.	N/A	N/A	N/A	N/A	N/A
ORN-O-05	Indirect impacts via habitats or prey availability - intertidal and offshore	X	X					Operation and Maintenance	Presence of foundations in the seabed, cable / scour protection, pillars in the water column	N/A	Scoped In	Impact assessed in the PEIR	Greater Wash SPA supporting habitats (Landfall Site) Greater Wash SPA designated features (Landfall Site) Common gull, black-headed gull, herring gull, great black-backed gull (Landfall Site) Sanderling, Oystercatcher (Landfall Site) Red-throated diver (Offshore ECC) Seabirds (Array Area) Great northern diver (Array Area)	Medium High Medium Medium High Low-medium High	Negligible Negligible Negligible Negligible Negligible Negligible Negligible	Minor Adverse (Not Significant) Minor Adverse (Not Significant) Minor Adverse (Not Significant) Minor Adverse (Not Significant) Minor Adverse (Not Significant) Negligible-Minor Adverse (Not Significant) Minor Adverse (Not Significant)	Minor Adverse (Not Significant) Minor Adverse (Not Significant) Minor Adverse (Not Significant) Minor Adverse (Not Significant) Negligible-Minor Adverse (Not Significant) Negligible-Minor Adverse (Not Significant) Minor Adverse (Not Significant)

Impact Details										Commitments	Scoping	Preliminary Environmental Information Report (PEIR)						
Impact ID	Impact	Project Element						Project Phase	Project Activity			Project's Position at Scoping	Project's Position at PEIR	Receptor	Receptor Sensitivity / Value	Impact Magnitude	Effect Significance	Residual Effect Significance
		Array Area	Offshore Export Cable Corridor	Landfall	Onshore Export Cable Corridor	Onshore Converter Station	Energy Storage and Balancing Infrastructure											
ORN-O-06	Collision risk - offshore (kittiwake, gannet, migratory non-seabirds)	X						Operation and Maintenance	Presence of wind turbines	Embedded Mitigation: CO13 CO22 CO25 CO30	Scoped In	Impact assessed in the PEIR	Kittiwake Great black-backed gull Herring gull Lesser black-backed gull Gannet	Medium Medium Medium Medium Medium	Low Negligible Negligible Negligible Negligible	Minor Adverse (Not Significant) Negligible (Not Significant) Negligible (Not Significant) Negligible (Not Significant) Negligible (Not Significant)	Minor Adverse (Not Significant) Negligible (Not Significant) Negligible (Not Significant) Negligible (Not Significant) Negligible (Not Significant)	
ORN-D-01	Direct disturbance and displacement due to work activity in the Array Area, offshore ECC or landfall - intertidal and offshore	X	X	X				Decommissioning	Decommissioning activities not yet defined	Embedded Mitigation: CO21	Scoped In	The details and scope of offshore decommissioning works will be determined by the relevant regulations and guidance at the time of decommissioning and provided in the Offshore Decommissioning Programme (see Commitment ID CO21). This will include a detailed assessment of decommissioning impacts and appropriate mitigation measures to avoid significant effects.  For this assessment, it is assumed that impacts during the decommissioning phase would be of similar nature to, and no worse than, those identified during the construction phase						
ORN-D-02	Direct disturbance and displacement due to presence of wind turbines and other offshore infrastructure - offshore (red-throated diver, gannet, auks)	X	X	X				Decommissioning	Decommissioning activities not yet defined		Scoped In							
ORN-D-03	Barrier effect due to presence of wind turbines and other offshore infrastructure - offshore (including migratory non-seabirds)	X						Decommissioning	Decommissioning activities not yet defined		Scoped Out							
ORN-D-04	Accidental pollution	X	X					Decommissioning	Decommissioning activities not yet defined		Scoped Out							
ORN-D-05	Indirect impacts via habitats or prey availability - intertidal and offshore	X	X					Decommissioning	Decommissioning activities not yet defined		Scoped In							
ORN-D-06	Collision risk - offshore (kittiwake, gannet, migratory non-seabirds)	X						Decommissioning	Decommissioning activities not yet defined		Scoped Out							





Impact Details										Scoping		Preliminary Environmental Information Report (PEIR)						
Impact ID	Impact	Project Element						Project Phase	Project Activity			Commitments	Project's Position at Scoping	Project's Position at PEIR	Receptor	Receptor Sensitivity / Value	Impact Magnitude	Effect Significance
		Array Area	Offshore Export Cable Corridor	Landfall	Onshore Export Cable Corridor	Onshore Converter Station	Energy Storage and Balancing Infrastructure											
CF-O-04	Displacement or disruption of commercially important fish and shellfish resources	X	X					Operation and Maintenance	EMF effects and noise disturbance as a result of the O&M	Embedded Mitigation: CO15 CO24 CO25 CO28 CO31	Scoped In	Impact assessed in the PEIR	UK potting fishery UK scallop dredge fishery UK pelagic trawl fishery UK demersal trawl fishery UK beam trawl fishery UK demersal seine fishery Non-UK pelagic trawl fishery Non-UK demersal trawl fishery Non-UK beam trawl fishery	Medium Medium Low Low Low Low Low Low Low	Low adverse Low adverse Low adverse Low adverse Low adverse Low adverse Low adverse Low adverse Low adverse	Minor Adverse (Not Significant) Minor Adverse (Not Significant) Minor Adverse (Not Significant) Minor Adverse (Not Significant) Minor Adverse (Not Significant) Minor Adverse (Not Significant) Minor Adverse (Not Significant) Minor Adverse (Not Significant) Minor Adverse (Not Significant)	Minor Adverse (Not Significant) Minor Adverse (Not Significant) Minor Adverse (Not Significant) Minor Adverse (Not Significant) Minor Adverse (Not Significant) Minor Adverse (Not Significant) Minor Adverse (Not Significant) Minor Adverse (Not Significant) Minor Adverse (Not Significant)	
CF-O-05	Increased vessel traffic associated with the Project within fishing grounds leading to interference with fishing activity	X	X					Operation and Maintenance	Movement of vessels associated with the O&M phase of the Project	Embedded Mitigation: CO14 CO17 CO15 CO25 CO28 CO31	Scoped In	Impact assessed in the PEIR	UK potting fishery UK scallop dredge fishery UK pelagic trawl fishery UK demersal trawl fishery UK beam trawl fishery UK demersal seine fishery Non-UK pelagic trawl fishery Non-UK demersal trawl fishery Non-UK beam trawl fishery	Medium Low Low Low Low Low Low Low Low	Negligible-low adverse Negligible-low adverse Negligible-low adverse Negligible-low adverse Negligible-low adverse Negligible-low adverse Negligible-low adverse Negligible-low adverse Negligible-low adverse	Minor Adverse (Not Significant) Minor Adverse (Not Significant) Minor Adverse (Not Significant) Minor Adverse (Not Significant) Minor Adverse (Not Significant) Minor Adverse (Not Significant) Minor Adverse (Not Significant) Minor Adverse (Not Significant) Minor Adverse (Not Significant)	Minor Adverse (Not Significant) Minor Adverse (Not Significant) Minor Adverse (Not Significant) Minor Adverse (Not Significant) Minor Adverse (Not Significant) Minor Adverse (Not Significant) Minor Adverse (Not Significant) Minor Adverse (Not Significant) Minor Adverse (Not Significant)	
CF-O-06	Reduction in access to, or exclusion from established fishing grounds - all other fleets	X	X					Operation and Maintenance	N/A	N/A	Scoped Out	Impact scoped out at scoping stage with the Planning Inspectorate's agreement.	N/A	N/A	N/A	N/A	N/A	N/A
CF-O-07	Additional steaming to alternative fishing grounds	X	X					Operation and Maintenance	Movement of vessels associated with the Project and presence of constructed infrastructure	Embedded Mitigation: CO9 CO14 CO15 CO16 CO17 CO25 CO28 CO31	Scoped In	Impact assessed in the PEIR	UK potting fishery UK scallop dredge fishery UK pelagic trawl fishery UK demersal trawl fishery UK beam trawl fishery UK demersal seine fishery Non-UK pelagic trawl fishery Non-UK demersal trawl fishery Non-UK beam trawl fishery	Medium Low Low Low Low Low Low Low Low	Low adverse Low adverse Low adverse Low adverse Low adverse Low adverse Low adverse Low adverse Low adverse	Minor Adverse (Not Significant) Minor Adverse (Not Significant) Minor Adverse (Not Significant) Minor Adverse (Not Significant) Minor Adverse (Not Significant) Minor Adverse (Not Significant) Minor Adverse (Not Significant) Minor Adverse (Not Significant) Minor Adverse (Not Significant)	Minor Adverse (Not Significant) Minor Adverse (Not Significant) Minor Adverse (Not Significant) Minor Adverse (Not Significant) Minor Adverse (Not Significant) Minor Adverse (Not Significant) Minor Adverse (Not Significant) Minor Adverse (Not Significant) Minor Adverse (Not Significant)	
CF-O-08	Displacement leading to gear conflict and increased fishing pressure on adjacent grounds	X						Operation and Maintenance	N/A	N/A	Scoped Out	Impact scoped out at scoping stage with the Planning Inspectorate's agreement.	N/A	N/A	N/A	N/A	N/A	N/A
CF-O-09	Physical presence of infrastructure leading to gear snagging	X						Operation and Maintenance	Physical presence of infrastructure	Embedded Mitigation: CO7 CO9 CO11 CO12 CO14 CO15 CO16 CO17 CO25 CO28 CO31	Scoped In	Impact assessed in the PEIR	UK potting fishery UK scallop dredge fishery UK pelagic trawl fishery UK demersal trawl fishery UK beam trawl fishery UK demersal seine fishery Non-UK pelagic trawl fishery Non-UK demersal trawl fishery Non-UK beam trawl fishery	Low Medium Negligible Medium Medium Negligible Negligible Medium Medium	Low adverse Low adverse Low adverse Low adverse Low adverse Low adverse Low adverse Low adverse Low adverse	Minor Adverse (Not Significant) Minor Adverse (Not Significant) Minor Adverse (Not Significant) Minor Adverse (Not Significant) Minor Adverse (Not Significant) Minor Adverse (Not Significant) Minor Adverse (Not Significant) Minor Adverse (Not Significant) Minor Adverse (Not Significant)	Minor Adverse (Not Significant) Minor Adverse (Not Significant) Minor Adverse (Not Significant) Minor Adverse (Not Significant) Minor Adverse (Not Significant) Minor Adverse (Not Significant) Minor Adverse (Not Significant) Minor Adverse (Not Significant) Minor Adverse (Not Significant)	
CF-D-01	Reduction in access to, or exclusion from established fishing grounds - Mobile gear fleets in the Dogger Bank byelaw area	X	X					Decommissioning	Decommissioning activities not yet defined	Embedded Mitigation: CO21	Scoped Out	The details and scope of offshore decommissioning works will be determined by the relevant regulations and guidance at the time of decommissioning and provided in the Offshore Decommissioning Programme (see Commitment ID CO21). This will include a detailed assessment of decommissioning impacts and appropriate mitigation measures to avoid significant effects.  For this assessment, it is assumed that impacts during the decommissioning phase would be of similar nature to, and no worse than, those identified during the construction phase						
CF-D-02	Reduction in access to, or exclusion from established fishing grounds - Mobile gear fleets all other fleets	X	X					Decommissioning	Decommissioning activities not yet defined		Scoped In							
CF-D-03	Displacement leading to gear conflict and increased fishing pressure on adjacent / alternative grounds	X	X					Decommissioning	Decommissioning activities not yet defined		Scoped In							
CF-D-04	Displacement or disruption of commercially important fish and shellfish resources	X	X					Decommissioning	Decommissioning activities not yet defined		Scoped In							
CF-D-05	Increased vessel traffic associated with the Project within fishing grounds leading to interference with fishing activity	X	X					Decommissioning	Decommissioning activities not yet defined		Scoped In							
CF-D-06	Reduction in access to, or exclusion from established fishing grounds - all other fleets	X	X					Decommissioning	Decommissioning activities not yet defined		Scoped Out							
CF-D-07	Additional steaming to alternative fishing grounds	X	X					Decommissioning	Decommissioning activities not yet defined		Scoped In							
CF-D-08	Displacement leading to gear conflict and increased fishing pressure on adjacent grounds	X						Decommissioning	Decommissioning activities not yet defined		Scoped Out							
CF-D-09	Physical presence of infrastructure leading to gear snagging	X						Decommissioning	Decommissioning activities not yet defined		Scoped In							



Chapter 15 Shipping and Navigation

Impact ID	Impact	Impact Details						Project Phase	Project Activity	Commitments	Scoping	Preliminary Environmental Information Report (PEIR)					
		Array Area	Offshore Export Cable Corridor	Landfall	Onshore Export Cable Corridor	Onshore Converter Station	Energy Storage and Balancing Infrastructure				Project's Position at Scoping	Project's Position at PEIR	Receptor	Frequency of Occurrence	Severity of Consequence	Effect Significance	Residual Effect Significance
SN-C-01	Vessel displacement - Array Area							Construction	Construction activities associated with the Project	Embedded Mitigation: CO7 CO9 CO11 CO16 CO17  Embedded Mitigation / Monitoring: CO10	Scoped In	Impact assessed in the PEIR	All Vessels	Frequent	Minor	Tolerable with Mitigation (Not Significant)	Tolerable with Mitigation (Not Significant)
	Vessel displacement - offshore ECC	X	X							Embedded Mitigation: CO7 CO11 CO16 CO17  Embedded Mitigation / Monitoring: CO10			All Vessels	Reasonably Probable	Minor	Tolerable with Mitigation (Not Significant)	Tolerable with Mitigation (Not Significant)
SN-C-02	Increased vessel to vessel collision risk between third-party vessels due to vessel displacement - Array Area							Construction	Construction activities associated with the Project	Embedded Mitigation: CO7 CO9 CO11 CO16 CO17 CO25  Embedded Mitigation / Monitoring: CO10	Scoped In	Impact assessed in the PEIR	All Vessels	Remote	Moderate	Tolerable with Mitigation (Not Significant)	Tolerable with Mitigation (Not Significant)
	Increased vessel to vessel collision risk between third-party vessels due to vessel displacement - offshore ECC	X	X							Embedded Mitigation: CO7 CO11 CO16 CO17 CO25  Embedded Mitigation / Monitoring: CO10			All Vessels	Extremely Unlikely	Moderate	Broadly Acceptable (Not Significant)	Broadly Acceptable (Not Significant)
SN-C-03	Increased vessel to vessel collision risk between a third-party vessel and a project vessel - Array Area							Construction	Construction activities associated with the Project	Embedded Mitigation: CO7 CO9 CO11 CO12 CO14 CO16 CO17 CO25  Embedded Mitigation / Monitoring: CO10	Scoped In	Impact assessed in the PEIR	All Vessels	Extremely Unlikely	Moderate	Broadly Acceptable (Not Significant)	Broadly Acceptable (Not Significant)
	Increased vessel to vessel collision risk between a third-party vessel and a project vessel - offshore ECC	X	X							Embedded Mitigation: CO7 CO11 CO12 CO14 CO16 CO17 CO25  Embedded Mitigation / Monitoring: CO10			All Vessels	Negligible	Moderate	Broadly Acceptable (Not Significant)	Broadly Acceptable (Not Significant)
SN-C-04	Vessel to structure allision risk for third party vessels due to the presence of project structures	X	X					Construction	Construction activities associated with the Project	N/A	Scoped Out	Impact scoped out at scoping stage with the Planning Inspectorate's agreement.	N/A	N/A	N/A	N/A	N/A
SN-C-05	Reduction in under keel clearance due to the presence of cable protection or cable crossings	X	X					Construction	Construction activities associated with the Project	N/A	Scoped Out	Impact scoped out at scoping stage with the Planning Inspectorate's agreement.	N/A	N/A	N/A	N/A	N/A
SN-C-06	Vessel interaction with sub-sea cables associated with the project	X	X					Construction	Construction activities associated with the Project	N/A	Scoped Out	Impact scoped out at scoping stage with the Planning Inspectorate's agreement.	N/A	N/A	N/A	N/A	N/A
SN-C-07	Interference with vessel navigation and communication equipment due to the Project	X	X					Construction	Construction activities associated with the Project	N/A	Scoped Out	Impact scoped out at scoping stage with the Planning Inspectorate's agreement.	N/A	N/A	N/A	N/A	N/A
SN-C-08	Reduction of emergency response capability due to increased incident rates and / or reduced access for SAR responders	X	X					Construction	Construction activities associated with the Project	N/A	Scoped Out	Impact scoped out at scoping stage with the Planning Inspectorate's agreement.	N/A	N/A	N/A	N/A	N/A

Impact Details											Commitments	Scoping	Preliminary Environmental Information Report (PEIR)					
Impact ID	Impact	Project Element						Project Phase	Project Activity	Project's Position at Scoping		Project's Position at PEIR	Receptor	Frequency of Occurrence	Severity of Consequence	Effect Significance	Residual Effect Significance	
		Array Area	Offshore Export Cable Corridor	Landfall	Onshore Export Cable Corridor	Onshore Converter Station	Energy Storage and Balancing Infrastructure											
SN-O-01	Vessel displacement - Array Area	X	X					Operation and Maintenance	Presence of the Project	Embedded Mitigation: CO7 CO9 CO11 CO16 CO17  Embedded Mitigation / Monitoring: CO10	Scoped In	Impact assessed in the PEIR	All Vessels	Frequent	Minor	Tolerable with Mitigation (Not Significant)	Tolerable with Mitigation (Not Significant)	
	Vessel displacement - offshore ECC									Embedded Mitigation: CO7 CO11 CO16 CO17  Embedded Mitigation / Monitoring: CO10								All Vessels
SN-O-02	Increased vessel to vessel collision risk between third-party vessels due to vessel displacement - Array Area	X	X					Operation and Maintenance	Presence of the Project	Embedded Mitigation: CO7 CO9 CO11 CO16 CO17 CO25  Embedded Mitigation / Monitoring: CO10	Scoped In	Impact assessed in the PEIR	All Vessels	Remote	Moderate	Tolerable with Mitigation (Not Significant)	Tolerable with Mitigation (Not Significant)	
	Increased vessel to vessel collision risk between third-party vessels due to vessel displacement - offshore ECC									Embedded Mitigation: CO7 CO11 CO16 CO17 CO25  Embedded Mitigation / Monitoring: CO10								All Vessels
SN-O-03	Increased vessel to vessel collision risk between a third-party vessel and a project vessel - Array Area	X	X					Operation and Maintenance	Presence of the Project	Embedded Mitigation: CO7 CO9 CO11 CO12 CO14 CO16 CO17 CO25 CO28  Embedded Mitigation / Monitoring: CO10	Scoped In	Impact assessed in the PEIR	All Vessels	Negligible	Moderate	Broadly Acceptable (Not Significant)	Broadly Acceptable (Not Significant)	
	Increased vessel to vessel collision risk between a third-party vessel and a project vessel - offshore ECC									Embedded Mitigation: CO7 CO11 CO12 CO14 CO16 CO17 CO25 CO28  Embedded Mitigation / Monitoring: CO10								All Vessels
SN-O-04	Vessel to structure allision risk for third party vessels due to the presence of project structures - Array Area	X						Operation and Maintenance	Presence of the Project	Embedded Mitigation: CO7 CO9 CO11 CO13 CO15 CO16 CO17 CO25	Scoped In	Impact assessed in the PEIR	All Vessels	Extremely Unlikely	Moderate	Broadly Acceptable (Not Significant)	Broadly Acceptable (Not Significant)	
SN-O-05	Reduction in under keel clearance due to the presence of cable protection or cable crossings		X					Operation and Maintenance	Presence of the Project	Embedded Mitigation: CO7 CO11 CO16 CO17 CO23 CO24 CO25 CO28	Scoped In	Impact assessed in the PEIR	All Vessels	Extremely Unlikely	Minor	Broadly Acceptable (Not Significant)	Broadly Acceptable (Not Significant)	
SN-O-06	Vessel interaction with sub-sea cables associated with the project		X					Operation and Maintenance	Presence of the Project	Embedded Mitigation: CO11 CO16 CO17 CO23 CO24 CO28	Scoped In	Impact assessed in the PEIR	All Vessels	Extremely Unlikely	Minor	Broadly Acceptable (Not Significant)	Broadly Acceptable (Not Significant)	
SN-O-07	Interference with vessel navigation and communication equipment due to the Project	X	X					Operation and Maintenance	Presence of the Project	N/A	Scoped In	Evidence of the absence of likely significant effect provided in the PEIR	N/A	N/A	N/A	N/A	N/A	



Impact Details										Commitments	Scoping	Preliminary Environmental Information Report (PEIR)					
Impact ID	Impact	Project Element						Project Phase	Project Activity		Project's Position at Scoping	Project's Position at PEIR	Receptor	Frequency of Occurrence	Severity of Consequence	Effect Significance	Residual Effect Significance
		Array Area	Offshore Export Cable Corridor	Landfall	Onshore Export Cable Corridor	Onshore Converter Station	Energy Storage and Balancing Infrastructure										
SN-O-08	Reduction of emergency response capability due to increased incident rates and / or reduced access for SAR responders	X	X					Operation and Maintenance	Presence of the Project	Embedded Mitigation: CO2 CO7 CO9 CO11 CO12 CO14 CO16 CO25 CO28	Scoped In	Impact assessed in the PEIR	All Vessels	Extremely Unlikely	Moderate	Broadly Acceptable (Not Significant)	Broadly Acceptable (Not Significant)
SN-D-01	Vessel displacement	X	X					Decommissioning	Decommissioning activities not yet defined	Embedded Mitigation: CO21	Scoped In	The details and scope of offshore decommissioning works will be determined by the relevant regulations and guidance at the time of decommissioning and provided in the Offshore Decommissioning Programme (see Commitment ID CO21). This will include a detailed assessment of decommissioning impacts and appropriate mitigation measures to avoid significant effects.  For this assessment, it is assumed that impacts during the decommissioning phase would be of similar nature to, and no worse than, those identified during the construction phase					
SN-D-02	Increased vessel to vessel collision risk between third-party vessels due to vessel displacement	X	X					Decommissioning	Decommissioning activities not yet defined		Scoped In						
SN-D-03	Increased vessel to vessel collision risk between a third-party vessel and a project vessel	X	X					Decommissioning	Decommissioning activities not yet defined		Scoped In						
SN-D-04	Vessel to structure allision risk for third party vessels due to the presence of project structures	X	X					Decommissioning	Decommissioning activities not yet defined		Scoped Out						
SN-D-05	Reduction in under keel clearance due to the presence of cable protection or cable crossings	X	X					Decommissioning	Decommissioning activities not yet defined		Scoped Out						
SN-D-06	Vessel interaction with sub-sea cables associated with the project	X	X					Decommissioning	Decommissioning activities not yet defined		Scoped Out						
SN-D-07	Interference with vessel navigation and communication equipment due to the Project	X	X					Decommissioning	Decommissioning activities not yet defined		Scoped Out						
SN-D-08	Reduction of emergency response capability due to increased incident rates and / or reduced access for SAR responders	X	X					Decommissioning	Decommissioning activities not yet defined		Scoped Out						

## Chapter 16 Aviation, Radar and Military

[illegible]

## Chapter 17 Offshore Archaeology and Cultural Heritage

[illegible]



## Chapter 18 Other Marine Users

Impact Details											Scoping	Preliminary Environmental Information Report (PEIR)								
Impact ID	Impact	Project Element									Project Phase	Project Activity	Commitments	Project's Position at Scoping	Project's Position at PEIR	Receptor	Receptor Sensitivity / Value	Impact Magnitude	Effect Significance	Residual Effect Significance
		Array Area	Offshore Export Cable Corridor	Landfall	Onshore Export Cable Corridor	Onshore Converter Station	Energy Storage and Balancing Infrastructure													
OMU-C-01	Potential interference with other wind farms	X	X					Construction	General development of the Project	Embedded Mitigation: CO7 CO9 CO10 CO11 CO12 CO14 CO15 CO16 CO17 CO21 CO23 CO24 CO28 CO31	Scoped In	Impact assessed in the PEIR	Other wind farms	High	Negligible	Minor Adverse (Not Significant)	Minor Adverse (Not Significant)			
OMU-C-02	Potential interference with oil and gas activities	X	X					Construction	General development of the Project		Scoped In	Impact assessed in the PEIR	Oil and gas	High	Negligible	Minor Adverse (Not Significant)	Minor Adverse (Not Significant)			
OMU-C-03	Physical impacts on subsea cables and pipelines		X					Construction	General development of the Project		Scoped In	Impact assessed in the PEIR	Subsea cables and pipelines	High	Negligible	Minor Adverse (Not Significant)	Minor Adverse (Not Significant)			
OMU-C-04	Impacts on Carbon Capture and Storage (CCS) sites		X					Construction	General development of the Project		Scoped In	Impact assessed in the PEIR	CCS sites	High	Negligible	Minor Adverse (Not Significant)	Minor Adverse (Not Significant)			
OMU-C-05	Impacts on aggregate dredging activities	X						Construction	General development of the Project	N/A	Scoped Out	Impact scoped out at scoping stage with the Planning Inspectorate's agreement.	Aggregate dredging activities	N/A	N/A	N/A	N/A			
OMU-C-06	Impacts on disposal sites	X	X					Construction	General development of the Project	N/A	Scoped Out	Impact scoped out at scoping stage with the Planning Inspectorate's agreement.	Disposal sites	N/A	N/A	N/A	N/A			
OMU-C-07	Impacts of MoD activities		X					Construction	General development of the Project	N/A	Scoped Out	Impact scoped out at scoping stage with the Planning Inspectorate's agreement.	MoD activities	N/A	N/A	N/A	N/A			
OMU-O-01	Potential interference with other wind farms	X						O&M	General development of the Project	Embedded Mitigation: CO7 CO9 CO10 CO11 CO12 CO14 CO15 CO16 CO17 CO21 CO23 CO24 CO28 CO31	Scoped In	Impact assessed in the PEIR	Other wind farms	High	Negligible	Minor Adverse (Not Significant)	Minor Adverse (Not Significant)			
OMU-O-02	Potential interference with oil and gas activities	X						O&M	General development of the Project		Scoped In	Impact assessed in the PEIR	Oil and gas	High	Negligible	Minor Adverse (Not Significant)	Minor Adverse (Not Significant)			
OMU-O-03	Physical impacts on subsea cables and pipelines		X					O&M	General development of the Project		Scoped In	Impact assessed in the PEIR	Subsea cables and pipelines	High	Negligible	Minor Adverse (Not Significant)	Minor Adverse (Not Significant)			
OMU-O-04	Impacts on Carbon Capture and Storage (CCS) sites		X					O&M	General development of the Project		Scoped In	Impact assessed in the PEIR	CCS sites	High	Negligible	Minor Adverse (Not Significant)	Minor Adverse (Not Significant)			
OMU-O-05	Impacts on aggregate dredging activities	X						O&M	General development of the Project	N/A	Scoped Out	Impact scoped out at scoping stage with the Planning Inspectorate's agreement.	Aggregate dredging activities	N/A	N/A	N/A	N/A			
OMU-O-06	Impacts on disposal sites	X	X					O&M	General development of the Project	N/A	Scoped Out	Impact scoped out at scoping stage with the Planning Inspectorate's agreement.	Disposal sites	N/A	N/A	N/A	N/A			
OMU-O-07	Impacts of MoD activities		X					O&M	General development of the Project	N/A	Scoped Out	Impact scoped out at scoping stage with the Planning Inspectorate's agreement.	MoD activities	N/A	N/A	N/A	N/A			
OMU-D-01	Potential interference with other wind farms	X	X					Decommissioning	Decommissioning activities not yet defined	Embedded Mitigation: CO21	Scoped In	The details and scope of offshore decommissioning works will be determined by the relevant regulations and guidance at the time of decommissioning and provided in the Offshore Decommissioning Programme (see Commitment ID CO21). This will include a detailed assessment of decommissioning impacts and appropriate mitigation measures to avoid significant effects.  For this assessment, it is assumed that impacts during the decommissioning phase would be of similar nature to, and no worse than, those identified during the construction phase								
OMU-D-02	Potential interference with oil and gas activities	X	X					Decommissioning	Decommissioning activities not yet defined		Scoped In									
OMU-D-03	Physical impacts on subsea cables and pipelines		X					Decommissioning	Decommissioning activities not yet defined		Scoped In									
OMU-D-04	Impacts on Carbon Capture and Storage (CCS) sites		X					Decommissioning	Decommissioning activities not yet defined		Scoped In									
OMU-D-05	Impacts on aggregate dredging activities	X						Decommissioning	Decommissioning activities not yet defined		Scoped Out									
OMU-D-06	Impacts on disposal sites	X	X					Decommissioning	Decommissioning activities not yet defined		Scoped Out									
OMU-D-07	Impacts of MoD activities		X					Decommissioning	Decommissioning activities not yet defined		Scoped Out									

Seascope, Landscape and Visual Impacts

Impact Details										Commitments	Scoping	Preliminary Environmental Information Report (PEIR)					
Impact ID	Impact	Project Element						Project Phase	Project Activity		Project's Position at Scoping	Project's Position at PEIR	Receptor	Receptor Sensitivity / Value	Impact Magnitude	Effect Significance	Residual Effect Significance
		Array Area	Offshore Export Cable Corridor	Landfall	Onshore Export Cable Corridor	Onshore Converter Station	Energy Storage and Balancing Infrastructure										
SLV-C-01	Seascape character	X	X	X				Construction	Presence of construction activity and partially completed structure	N/A	Scoped Out	Impact scoped out at scoping stage with the Planning Inspectorate's agreement.	Seascape, landscape and visual impacts from offshore project activities and infrastructure have been scoped out of the EIA as a topic.				
SLV-C-02	Landscape character and designated landscapes	X	X	X				Construction	Presence of construction activity and partially completed structure	N/A	Scoped Out	Impact scoped out at scoping stage with the Planning Inspectorate's agreement.					
SLV-C-03	Visual receptors	X	X	X				Construction	Presence of construction activity and partially completed structure	N/A	Scoped Out	Impact scoped out at scoping stage with the Planning Inspectorate's agreement.					
SLV-O-01	Seascape character	X						Operation and Maintenance	Presence of offshore infrastructure	N/A	Scoped Out	Impact scoped out at scoping stage with the Planning Inspectorate's agreement.					
SLV-O-02	Landscape character and designated landscapes	X	X					Operation and Maintenance	Presence of offshore components of the Project	N/A	Scoped Out	Impact scoped out at scoping stage with the Planning Inspectorate's agreement.					
SLV-O-03	Visual receptors	X		X				Operation and Maintenance	Presence of offshore components of the Project	N/A	Scoped Out	Impact scoped out at scoping stage with the Planning Inspectorate's agreement.					
SLV-D-01	Seascape character	X	X	X				Decommissioning	Presence of decommissioning activities	N/A	Scoped Out	Impact scoped out at scoping stage with the Planning Inspectorate's agreement.					
SLV-D-02	Landscape character and designated landscapes	X	X	X				Decommissioning	Presence of decommissioning activities	N/A	Scoped Out	Impact scoped out at scoping stage with the Planning Inspectorate's agreement.					
SLV-D-03	Visual receptors	X	X	X				Decommissioning	Presence of decommissioning activities	N/A	Scoped Out	Impact scoped out at scoping stage with the Planning Inspectorate's agreement.					

Offshore Air Quality

Impact Details										Commitments	Scoping	Preliminary Environmental Information Report (PEIR)					
Impact ID	Impact	Project Element						Project Phase	Project Activity		Project's Position at Scoping	Project's Position at PEIR	Receptor	Receptor Sensitivity / Value	Impact Magnitude	Effect Significance	Residual Effect Significance
		Array Area	Offshore Export Cable Corridor	Landfall	Onshore Export Cable Corridor	Onshore Converter Station	Energy Storage and Balancing Infrastructure										
OAQ-C-01	Impacts on human receptors	X	X					Construction	Vessel movements associated with construction, use of temporary generators	N/A	Scoped Out	Impact scoped out at scoping stage with the Planning Inspectorate's agreement.	Offshore air quality impacts from offshore project activities and infrastructure have been scoped out of the EIA as a topic.				
OAQ-C-01	Impacts on ecological receptors	X	X					Construction	Vessel movements associated with construction, use of temporary generators	N/A	Scoped Out	Impact scoped out at scoping stage with the Planning Inspectorate's agreement.					
OAQ-O-01	Impacts on human receptors	X	X					Operation and Maintenance	Vessel movements associated with operation	N/A	Scoped Out	Impact scoped out at scoping stage with the Planning Inspectorate's agreement.					
OAQ-O-02	Impacts on ecological receptors	X	X					Operation and Maintenance	Vessel movements associated with operation	N/A	Scoped Out	Impact scoped out at scoping stage with the Planning Inspectorate's agreement.					
OAQ-D-01	Impacts on human receptors	X	X					Decommissioning	Vessel movements associated with decommissioning	N/A	Scoped Out	Impact scoped out at scoping stage with the Planning Inspectorate's agreement.					
OAQ-D-02	Impacts on ecological receptors	X	X					Decommissioning	Vessel movements associated with decommissioning	N/A	Scoped Out	Impact scoped out at scoping stage with the Planning Inspectorate's agreement.					

Offshore Airbourne Noise

Impact Details										Commitments	Scoping	Preliminary Environmental Information Report (PEIR)					
Impact ID	Impact	Project Element						Project Phase	Project Activity		Project's Position at Scoping	Project's Position at PEIR	Receptor	Receptor Sensitivity / Value	Impact Magnitude	Effect Significance	Residual Effect Significance
		Array Area	Offshore Export Cable Corridor	Landfall	Onshore Export Cable Corridor	Onshore Converter Station	Energy Storage and Balancing Infrastructure										
OAN-C-01	Impacts on human receptors	X	X					Construction	Vessels associated with cable laying, foundation and turbine installation and the construction of other above-sea structures	N/A	Scoped Out	Impact scoped out at scoping stage with the Planning Inspectorate's agreement.	Offshore airborne noise impacts from offshore project activities and infrastructure have been scoped out of the EIA as a topic.				
OAN-C-02	Impacts on marine ecological receptors	X	X					Construction	Vessels associated with cable laying, foundation and turbine installation and the construction of other above-sea structures	N/A	Scoped Out	Impact scoped out at scoping stage with the Planning Inspectorate's agreement.					
OAN-O-01	Impacts on human receptors	X	X					Operation and Maintenance	Vessel movements associated with the Project and operational noise from wind turbines	N/A	Scoped Out	Impact scoped out at scoping stage with the Planning Inspectorate's agreement.					
OAN-O-02	Impacts on marine ecological receptors	X	X					Operation and Maintenance	Vessel movements associated with the Project and operational noise from wind turbines	N/A	Scoped Out	Impact scoped out at scoping stage with the Planning Inspectorate's agreement.					
OAN-D-01	Impacts on human receptors	X	X					Decommissioning	Vessel movements associated with cable removal, foundation and turbine removal, and the removal of other above-sea structures	N/A	Scoped Out	Impact scoped out at scoping stage with the Planning Inspectorate's agreement.					
OAN-D-02	Impacts on marine ecological receptors	X	X					Decommissioning	Vessel movements associated with cable removal, foundation and turbine removal, and the removal of other above-sea structures	N/A	Scoped Out	Impact scoped out at scoping stage with the Planning Inspectorate's agreement.					



Chapter 19 Geology and Ground Conditions

Impact Details										Commitments	Scoping	Preliminary Environmental Information Report (PEIR)					
Impact ID	Impact	Project Element						Project Phase	Project Activity		Project's Position at Scoping	Project's Position at PEIR	Receptor	Receptor Sensitivity / Value	Impact Magnitude	Effect Significance	Residual Effect Significance
		Array Area	Offshore Export Cable Corridor	Landfall	Onshore Export Cable Corridor	Onshore Converter Station	Energy Storage and Balancing Infrastructure										
GGC-C-01	Impacts to human health from on-site and off-site contamination			X	X	X	X	Construction	Construction activities with potential to mobilise pre-existing ground contaminants where present	<b>Embedded Mitigation:</b> CO39 CO40 CO47 CO48 CO50 CO51 CO53 CO54 CO94  <b>Additional Mitigation:</b> CO48	Scoped In	Impact assessed in the PEIR	Human health (e.g. construction workers and neighbouring land users)	High	Low to Medium	Moderate to Major Adverse (Significant)	Minor Adverse (Not Significant)
GGC-C-02	Impacts on groundwater quality and groundwater resources			X	X	X	X	Construction	Construction activities with potential to mobilise pre-existing ground contaminants where present and increase infiltration of rainwater and surface water to the sub-surface, accidental pollution from spillages, leakages, and temporary discharges, deep ground workings with potential to directly interact with groundwater resources, such as trenchless crossings and piling	<b>Embedded Mitigation:</b> CO38 CO39 CO40 CO41 CO42 CO47 CO48 CO51 CO53 CO54 CO94  <b>Additional Mitigation:</b> CO48	Scoped In	Impact assessed in the PEIR	Controlled waters (ground) (e.g. Principal Aquifers and SPZ)	Medium to High	Low	Minor (Not Significant) to Moderate Adverse (Significant)	Minor Adverse (Not Significant)
GGC-C-03	Impacts on surface water quality and associated ecological habitats from contamination			X	X	X	X	Construction	Construction activities with potential to mobilise pre-existing ground contaminants where present and alter surface water flows and accidental pollution	<b>Embedded Mitigation:</b> CO32 CO33 CO35 CO36 CO38 CO39 CO40 CO42 CO47 CO48 CO51 CO53 CO54 CO94  <b>Additional Mitigation:</b> CO48	Scoped In	Impact assessed in the PEIR	Controlled waters (surface) and associated ecological habitats (e.g. Holderness Inshore Marine Conservation Zone)	High	Low	Moderate Adverse (Significant)	Minor Adverse (Not Significant)
GGC-C-04	Impacts to designated geological sites			X	X	X	X	Construction	Ground breaking activities that directly overlap designated geological sites, such as trenching, excavation, piling	<b>Embedded Mitigation:</b> CO23 CO39 CO40 CO47 CO48 CO51 CO53 CO94	Scoped In	Impact assessed in the PEIR	Designated geological sites (e.g. Skipsea Drain LGS, Withow Gap SSSI)	Low to Medium	Medium to Negligible	Negligible to Minor Adverse (Not Significant)	Negligible to Minor Adverse (Not Significant)
GGC-C-05	Sterilisation of future mineral resources			X	X	X	X	Construction	Ground breaking activities that directly overlap mineral resources, such as trenching, excavation, piling	<b>Embedded Mitigation:</b> CO39 CO40 CO47 CO48 CO51 CO53 CO94 CO106	Scoped In	Impact assessed in the PEIR	Mineral resources (e.g. MSA)	Medium	Low	Minor Adverse (Not Significant)	Minor Adverse (Not Significant)
GGC-C-06	Impacts to the built environment			X	X	X	X	Construction	Construction activities with potential to mobilise pre-existing ground contaminants where present, such as trenching, excavation, piling and movement and stockpiling of soil	<b>Embedded Mitigation:</b> CO39 CO40 CO47 CO48 CO51 CO53 CO54 CO94  <b>Additional Mitigation:</b> CO48	Scoped In	Impact assessed in the PEIR	Built environment (e.g. buildings)	Medium	Medium	Moderate Adverse (Significant)	Negligible Adverse (Not Significant)
GGC-C-07	Impacts to agricultural land			X	X	X	X	Construction	Construction, maintenance and decommissioning activities with potential to mobilise pre-existing ground contaminants where present, such as trenching, excavation, piling and movement and stockpiling of soil	<b>Embedded Mitigation:</b> CO39 CO40 CO46 CO47 CO48 CO51 CO53 CO94  <b>Additional Mitigation:</b> CO48	Scoped In	Impact assessed in the PEIR	Agricultural land (e.g. ALC Grade 2 land)	High	Low	Moderate Adverse (Significant)	Minor Adverse (Not Significant)



Impact Details										Commitments	Scoping	Preliminary Environmental Information Report (PEIR)					
Impact ID	Impact	Project Element						Project Phase	Project Activity		Project's Position at Scoping	Project's Position at PEIR	Receptor	Receptor Sensitivity / Value	Impact Magnitude	Effect Significance	Residual Effect Significance
		Array Area	Offshore Export Cable Corridor	Landfall	Onshore Export Cable Corridor	Onshore Converter Station	Energy Storage and Balancing Infrastructure										
GGC-O-01	Impacts to human health from on-site and off-site contamination			X	X	X	X	Operation and Maintenance	O&M activities with potential to mobilise pre-existing ground contaminants where present	Embedded Mitigation: CO49 CO54 CO97	Scoped In	Impact assessed in the PEIR	Human health (e.g. O&M workers and neighbouring land users)	High	Negligible	Minor Adverse (Not Significant)	Minor Adverse (Not Significant)
GGC-O-02	Impacts on groundwater quality and groundwater resources			X	X	X	X	Operation and Maintenance	O&M activities with potential to mobilise pre-existing ground contaminants where present and increase infiltration of rainwater and surface water to the sub-surface, accidental pollution from spillages, leakages, and temporary discharges, deep ground workings with potential to directly interact with groundwater resources	Embedded Mitigation: CO41 CO49 CO54 CO97	Scoped In	Impact assessed in the PEIR	Controlled waters (ground) (e.g. Principal Aquifers and SPZ)	Medium to High	Negligible	Minor Adverse (Not Significant)	Minor Adverse (Not Significant)
GGC-O-03	Impacts on surface water quality and associated ecological habitats from contamination			X	X	X	X	Operation and Maintenance	O&M activities with potential to mobilise pre-existing ground contaminants where present and alter surface water flows and accidental pollution	Embedded Mitigation: CO32 CO33 CO36 CO44 CO49 CO54 CO97	Scoped In	Impact assessed in the PEIR	Controlled waters (surface) and associated ecological habitats (e.g. Holderness Inshore Marine Conservation Zone)	High	Negligible	Minor Adverse (Not Significant)	Minor Adverse (Not Significant)
GGC-O-04	Impacts to designated geological sites			X	X	X	X	Operation and Maintenance	Ground breaking activities and presence of permanent infrastructure that directly overlap designated geological sites	Embedded Mitigation: CO49 CO97	Scoped In	Impact assessed in the PEIR	Designated geological sites (e.g. Skipsea Drain LGS, Withow Gap SSSI)	Low to Medium	Negligible to Medium	Negligible to Minor Adverse (Not Significant)	Negligible to Minor Adverse (Not Significant)
GGC-O-05	Sterilisation of future mineral resources			X	X	X	X	Operation and Maintenance	Ground breaking activities and presence of permanent infrastructure that directly overlap mineral resources	Embedded Mitigation: CO49 CO97 CO106	Scoped In	Impact assessed in the PEIR	Mineral resources (e.g. MSA)	Medium	Negligible	Negligible Adverse (Not Significant)	Negligible Adverse (Not Significant)
GGC-O-06	Impacts to the built environment			X	X	X	X	Operation and Maintenance	O&M activities with potential to mobilise pre-existing ground contaminants where present and the presence of permanent infrastructure	Embedded Mitigation: CO49 CO54 CO97 Additional Mitigation: CO48 CO107	Scoped In	Impact assessed in the PEIR	Built environment (e.g. buildings)	Medium	Medium	Moderate Adverse (Significant)	Minor Adverse (Not Significant)
GGC-O-07	Impacts to agricultural land			X	X	X	X	Operation and Maintenance	O&M activities with potential to mobilise pre-existing ground contaminants where present and the presence of permanent infrastructure.	Embedded Mitigation: CO46 CO49 CO97	Scoped In	Impact assessed in the PEIR	Agricultural land (e.g. ALC Grade 2 land)	High	Negligible	Minor Adverse (Not Significant)	Minor Adverse (Not Significant)
GGC-D-01	Impacts to human health from on-site and off-site contamination			X	X	X	X	Decommissioning	Decommissioning activities not yet defined	Embedded Mitigation: CO56	Scoped In	The details and scope of onshore decommissioning works will be determined by the relevant regulations and guidance at the time of decommissioning and provided in the Onshore Decommissioning Plan (Commitment ID CO56). This will include a detailed assessment of decommissioning impacts and appropriate mitigation measures to avoid significant effects.  For assessment purposes, it is assumed that impacts during the decommissioning phase would be of similar nature to, and no worse than, those identified during the construction phase.					
GGC-D-02	Impacts on groundwater quality and groundwater resources			X	X	X	X	Decommissioning	Decommissioning activities not yet defined		Scoped In						
GGC-D-03	Impacts on surface water quality and associated ecological habitats from contamination			X	X	X	X	Decommissioning	Decommissioning activities not yet defined		Scoped In						
GGC-D-04	Impacts to designated geological sites			X	X	X	X	Decommissioning	Decommissioning activities not yet defined		Scoped In						
GGC-D-05	Sterilisation of future mineral resources			X	X	X	X	Decommissioning	Decommissioning activities not yet defined		Scoped In						
GGC-D-06	Impacts to the built environment			X	X	X	X	Decommissioning	Decommissioning activities not yet defined		Scoped In						
GGC-D-07	Impacts to agricultural land			X	X	X	X	Decommissioning	Decommissioning activities not yet defined		Scoped In						

Chapter 20 Air Quality and Dust

Impact ID	Impact	Impact Details						Project Phase	Project Activity	Commitments	Scoping	Preliminary Environmental Information Report (PEIR)					
		Array Area	Offshore Export Cable Corridor	Landfall	Onshore Export Cable Corridor	Onshore Converter Station	Energy Storage and Balancing Infrastructure				Project's Position at Scoping	Project's Position at PEIR	Receptor	Receptor Sensitivity / Value	Impact Magnitude	Effect Significance	Residual Effect Significance
AQ-C-01	Construction dust and fine particulate matter emissions			X	X	X	X	Construction	Construction activities such as earthworks and trackout	Embedded Mitigation: CO39 CO55 CO69 CO76 CO80	Scoped In	Impact assessed in the PEIR	Human receptors within 250m of the Onshore Development Area	Dust Soiling: Medium to High Human Health: Low	Dust Soiling: Medium to High risk Human Health: Low risk	Not Significant	
												Designated ecological sites within 200m of the Onshore Development Area	Ecological: Medium	Ecological: Medium risk			
AQ-C-02	Construction non-road mobile machinery emissions			X	X	X	X	Construction	Exhaust emissions from plant and equipment usage during construction activities	Embedded Mitigation: CO39 CO55 CO69 CO76 CO80	Scoped In	Impact assessed in the PEIR	Human and ecological receptor in close proximity to where NRMM works would occur.	High	N/A	Not Significant	
AQ-C-03	Construction road vehicle exhaust emissions			X	X	X	X	Construction	Exhaust emissions from road vehicle movements associated with construction activities	Embedded Mitigation: CO39 CO55 CO73 CO75 CO80 CO102	Scoped In	Impact assessed in the PEIR	Residential properties, schools, hospitals and care homes within 200m of affected roads.	High	Negligible	Not Significant	
													Designated ecological sites within 200m of affected roads.	High	Determined in Chapter 23 Onshore Ecology and Ornithology.		
													This impact only considers impacts associated with vehicle movements for the Project's onshore construction activities. Air quality impacts from traffic movements due to port operations associated with the Project's offshore construction activities will be covered in the Port Access Management Plan if determined to be required post-consent (Commitment ID CO102).				
AQ-C-04	Construction vessel emissions			X				Construction	Exhaust emissions from nearshore vessel movements associated with construction activities	Embedded Mitigation: CO25	Impact not identified in the Scoping Report but raised by the Planning Inspectorate in the Scoping Opinion.	Evidence of the absence of likely significant effect provided in the PEIR	Onshore sensitive ecological receptors within vicinity of the Project's nearshore vessel movements.	Not Significant			
AQ-O-01	Operational dust and fine particulate matter emissions			X	X	X	X	Operation and Maintenance	Routine and unplanned maintenance activities	N/A	Scoped Out	Impact scoped out at scoping stage with the Planning Inspectorate's agreement.	The impact is scoped out, as maintenance activities in the Onshore Development Area are unlikely to generate dust and fine particulate emissions to result in significant effects.				
AQ-O-02	Operational non-road mobile machinery and backup generator emissions			X	X	X	X	Operation and Maintenance	Exhaust emissions from routine and unplanned maintenance activities and backup generators during operation	N/A	Scoped Out	Evidence of the absence of likely significant effect provided in the PEIR	Human and ecological receptors in close proximity to where NRMM works would occur.	Not Significant			
AQ-O-03	Operational road vehicle exhaust emissions			X	X	X	X	Operation and Maintenance	Exhaust emissions from road vehicle movements during operation	Embedded Mitigation: CO102	Scoped Out	Evidence of the absence of likely significant effect provided in the PEIR	Residential properties, schools, hospitals and care homes within 200m of affected roads.	Not Significant			
													This impact only considers impacts associated with vehicle movements for the Project's onshore O&M activities. Air quality impacts from traffic movements due to port operations associated with the Project's offshore O&M activities will be covered in the Port Access Management Plan if determined to be required post-consent (Commitment ID CO102).				
AQ-O-04	Operational vessel emissions				X			Operation and Maintenance	Exhaust emissions from nearshore vessel movements during operation	Embedded Mitigation: CO25	Impact not identified in the Scoping Report but raised by the Planning Inspectorate in the Scoping Opinion.	Evidence of the absence of likely significant effect provided in the PEIR	Onshore sensitive ecological receptors within vicinity of the Project's nearshore vessel movements.	Not Significant			
AQ-D-01	Decommissioning dust and fine particulate matter emissions			X	X	X	X	Decommissioning	Decommissioning activities not yet defined	Embedded Mitigation: CO56	Scoped In	The details and scope of onshore decommissioning works will be determined by the relevant regulations and guidance at the time of decommissioning and provided in the Onshore Decommissioning Plan (Commitment ID CO56). This will include a detailed assessment of decommissioning impacts and appropriate mitigation measures to avoid significant effects.					
AQ-D-02	Decommissioning NRMM emissions			X	X	X	X	Decommissioning	Decommissioning activities not yet defined		Scoped In						
AQ-D-03	Decommissioning road vehicle exhaust emissions			X	X	X	X	Decommissioning	Decommissioning activities not yet defined		Scoped In						

## Chapter 21 Water Resources and Flood Risk

Impact Details										Commitments	Preliminary Environmental Information Report (PEIR)						
Impact ID	Impact	Project Element						Project Phase	Project Activity		Scoping	Project's Position at PEIR	Receptor	Receptor Sensitivity / Value	Impact Magnitude	Effect Significance	Residual Effect Significance
		Array Area	Offshore Export Cable Corridor	Landfall	Onshore Export Cable Corridor	Onshore Converter Station	Energy Storage and Balancing Infrastructure				Project's Position at Scoping						
WRF-C-01	Direct disturbance of surface water bodies			X	X	X	X	Construction	Trenched watercourse (cable) crossings, temporary (haul road watercourse crossings) and construction activities at the OCS and ESBI	Embedded Mitigation: CO32 CO33 CO35 CO36 CO37 CO39	Scoped In	Impact assessed in the PEIR	Surface water catchments	Low to High	No Impact to Low	No Change to Minor Adverse (Not Significant)	No Change to Minor Adverse (Not Significant)
WRF-C-02	Increased sediment supply			X	X	X	X	Construction	Construction activities at the landfall, onshore ECC and OCS zone	Embedded Mitigation: CO32 CO33 CO39 CO43 CO46	Scoped In	Impact assessed in the PEIR	Surface water catchments	Low to High	Negligible to Low	Negligible to Minor Adverse (Not Significant)	Negligible to Minor Adverse (Not Significant)
WRF-C-03	Supply of contaminants to surface and groundwater			X	X	X	X	Construction	Construction activities at the landfall, onshore export cable corridor (ECC) and OCS zone	Embedded Mitigation: CO32 CO33 CO38 CO39 CO40 CO46	Scoped In	Impact assessed in the PEIR	Surface water and groundwater catchments	Low to High	Negligible to Low	Negligible to Minor Adverse (Not Significant)	Negligible to Minor Adverse (Not Significant)
WRF-C-04	Changes to surface and groundwater flows and flood risk			X	X	X	X	Construction	Construction activities at the landfall, onshore ECC and OCS zone	Embedded Mitigation: CO32 CO34 CO35 CO39 CO43	Scoped In	Impact assessed in the PEIR	Surface water and groundwater catchments	Low to High	Negligible to Low	Negligible to Minor Adverse (Not Significant)	Negligible to Minor Adverse (Not Significant)
WRF-O-01	Direct disturbance of surface water bodies			X	X	X	X	Operation and Maintenance	Routine and unplanned maintenance activities	N/A	Scoped Out	Impact scoped out at scoping stage with the Planning Inspectorate's agreement.	The impact is scoped out, as there will be no mechanisms by which elements of the Project could directly disturb water bodies during operation.				
WRF-O-02	Increased sediment supply			X	X	X	X	Operation and Maintenance	Routine and unplanned maintenance activities	N/A	Scoped Out	Impact scoped out at scoping stage with the Planning Inspectorate's agreement.	The impact is scoped out, as fine sediment supply from maintenance activities during operation was considered as part of the supply of contaminations to surface and groundwater (WRF-O-03)				
WRF-O-03	Supply of contaminants to surface and groundwater			X	X	X	X	Operation and Maintenance	Operation of the ESBI with respect to firewater and routine and unplanned O&M activities	Embedded Mitigation: CO44 CO49 CO79	Scoped In	Impact assessed in the PEIR	Surface water and groundwater catchments	Low to High	No Impact to Low	No Change to Minor Adverse (Not Significant)	No Change to Minor Adverse (Not Significant)
WRF-O-04	Changes to surface and groundwater flows and flood risk			X	X	X	X	Operation and Maintenance	Presence of permanent above-ground infrastructure	Embedded Mitigation: CO44 CO79	Scoped In	Impact assessed in the PEIR	Surface water and groundwater catchments	Low to High	No Impact to Low	No Change to Minor Adverse (Not Significant)	No Change to Minor Adverse (Not Significant)
WRF-D-01	Direct disturbance of surface water bodies			X	X	X	X	Decommissioning	Decommissioning activities not yet defined	Embedded Mitigation: CO56	Scoped In	The details and scope of onshore decommissioning works will be determined by the relevant regulations and guidance at the time of decommissioning and provided in the Onshore Decommissioning Plan (Commitment ID CO56). This will include a detailed assessment of decommissioning impacts and appropriate mitigation measures to avoid significant effects.  For assessment purposes, it is assumed that impacts during the decommissioning phase would be of similar nature to, and no worse than, those identified during the construction phase.					
WRF-D-02	Increased sediment supply			X	X	X	X	Decommissioning	Decommissioning activities not yet defined		Scoped In						
WRF-D-03	Supply of contaminants to surface and groundwater			X	X	X	X	Decommissioning	Decommissioning activities not yet defined		Scoped In						
WRF-D-04	Changes to surface and groundwater flows and flood risk			X	X	X	X	Decommissioning	Decommissioning activities not yet defined		Scoped In						



Chapter 22 Soils and Land Use

Impact ID	Impact	Impact Details						Project Phase	Project Activity	Commitments	Scoping	Preliminary Environmental Information Report (PEIR)						
		Array Area	Offshore Export Cable Corridor	Project Element							Project's Position at Scoping	Project's Position at PEIR	Receptor	Receptor Sensitivity / Value		Impact Magnitude	Effect Significance	Residual Effect Significance
				Landfall	Onshore Export Cable Corridor	Onshore Converter Station	Energy Storage and Balancing Infrastructure											
SLU-C-01	Impacts to agricultural drainage			X	X	X	X	Construction	Excavation works and other construction activities	Embedded Mitigation: CO39 CO43 CO60 CO61 CO100 CO101 CO110	Scoped In	Impact assessed in the PEIR	Field drainage network	Medium	Negligible	Minor Adverse (Not Significant)	Minor Adverse (Not Significant)	
SLU-C-02	Disruptions to farming practices (in general)			X	X	X	X	Construction	Temporary loss of agricultural land due to construction activities	Embedded Mitigation: CO39 CO46 CO47 CO51 CO60 CO61 CO100 CO101 CO110  Additional Mitigation: CO103	Scoped In	Impact assessed in the PEIR	Agricultural land	High	Low	Moderate Adverse (Significant)	Minor Adverse (Not Significant)	
SLU-C-03	Soil heating			X	X			Construction	N/A	N/A	Scoped Out	Impact scoped out at scoping stage with the Planning Inspectorate's agreement.	The impact is scoped out, as there is no potential impact pathway during construction.					
SLU-C-04	Soil degradation and erosion			X	X	X	X	Construction	Excavation works and other construction activities (e.g. movement of heavy machinery and storage of excavated materials)	Embedded Mitigation: CO39 CO46 CO47 CO51 CO60 CO61 CO100 CO101 CO110	Scoped In	Impact assessed in the PEIR	Agricultural soils	Medium	Negligible	Minor Adverse (Not Significant)	Minor Adverse (Not Significant)	
SLU-C-05	Impacts to stewardship and land management schemes			X	X	X	X	Construction	Temporary loss of land available due to construction activities	Embedded Mitigation: CO39 CO60 CO61 CO81 CO100 CO101 CO110	Scoped In	Impact assessed in the PEIR	Stewardship and land management schemes	High	Negligible	Minor Adverse (Not Significant)	Minor Adverse (Not Significant)	
SLU-C-06	Impacts to existing utilities			X	X	X	X	Construction	Excavation works and other construction activities	Embedded Mitigation: CO39 CO58 CO60 CO61 CO100 CO101	Scoped In	Impact assessed in the PEIR	Utilities	No Change (Not Significant)				
SLU-C-07	Impacts to Public Rights of Way, Countryside Rights of Way and cycle routes			X	X	X	X	Construction	Temporary closures / restricted access / diversions due to construction activities and haul roads	Embedded Mitigation: CO39 CO57 CO60 CO61 CO77 CO78 CO100 CO101	Scoped In	Impact assessed in the PEIR	Users of recreational routes	Medium to High	Negligible	Minor Adverse (Not Significant)	Minor Adverse (Not Significant)	
SLU-O-01	Impacts to agricultural drainage			X	X	X	X	Operation and Maintenance	Presence of permanent infrastructure	Embedded Mitigation: CO44 CO60 CO61 CO110	Scoped In	Impact assessed in the PEIR	Field drainage network	No Change (Not Significant)				
SLU-O-02	Disruptions to farming practices (in general)			X	X	X	X	Operation and Maintenance	Permanent loss of agricultural land due to the presence of permanent infrastructure and easements	Embedded Mitigation: CO60 CO61 CO110	Scoped In	Impact assessed in the PEIR	Agricultural land	High	High	Major Adverse (Significant)	Major Adverse (Significant)  No additional mitigation proposed. Land available for agricultural use will be unavailable during the O&M phase, as such the magnitude of impact would remain high.	
SLU-O-03	Soil heating			X	X			Operation and Maintenance	Presence of buried cables and heat loss from electrical flows	N/A	Scoped Out	Impact scoped out at scoping stage with the Planning Inspectorate's agreement.	The impact is scoped out, as the electrical system (onshore export cables) will be designed to minimise heat loss to a level which is unlikely to affect soil resources and crop growth.					
SLU-O-04	Soil degradation and erosion			X	X	X	X	Operation and Maintenance	Routine and unplanned maintenance activities	N/A	Scoped Out	Impact scoped out at scoping stage with the Planning Inspectorate's agreement.	The impact is scoped out, as maintenance activities in the Onshore Development Area are unlikely to result in significant effects with respect to soil erosion and degradation.					

Impact Details																	
Impact ID	Impact	Project Element						Project Phase	Project Activity	Commitments	Scoping	Preliminary Environmental Information Report (PEIR)					
		Array Area	Offshore Export Cable Corridor	Landfall	Onshore Export Cable Corridor	Onshore Converter Station	Energy Storage and Balancing Infrastructure				Project's Position at Scoping	Project's Position at PEIR	Receptor	Receptor Sensitivity / Value	Impact Magnitude	Effect Significance	Residual Effect Significance
SLU-O-05	Impacts to stewardship and land management schemes			X	X	X	X	Operation and Maintenance	Permanent loss of land due to presence of permanent infrastructure	Embedded Mitigation: CO60 CO61 CO110	Scoped In	Impact assessed in the PEIR	Stewardship and land management schemes	No Change (Not Significant) for landfall, onshore ECC and OCS Zone 4.			
														Medium (OCS Zone 8 only)	High (OCS Zone 8 only)	Major Adverse (Significant) (OCS Zone 8 only)	Major Adverse (Significant) (OCS Zone 8 only)  No additional mitigation proposed. Land available for stewardship and land management schemes will be unavailable during the O&M phase, as such the magnitude of impact would remain high.
SLU-O-06	Impacts to existing utilities			X	X	X	X	Operation and Maintenance	Routine and unplanned maintenance activities	N/A	Scoped Out	Impact scoped out at scoping stage with the Planning Inspectorate's agreement.	The impact is scoped out, as any maintenance works that may be required during the O&M phase would be undertaken following consultation with potentially affected utility providers, with the location of existing services identified prior to commencement of any works.				
SLU-O-07	Impacts to Public Rights of Way, Countryside Rights of Way and cycle routes			X	X	X	X	Operation and Maintenance	Routine and unplanned maintenance activities and presence of permanent infrastructure	Embedded Mitigation: CO57 CO60 CO61	Scoped In	Impact assessed in the PEIR	Users of recreational routes	No Change (Not Significant)			
SLU-D-01	Impacts to agricultural drainage			X	X	X	X	Decommissioning	Decommissioning activities not yet defined	Embedded Mitigation: CO56	Scoped In	The details and scope of onshore decommissioning works will be determined by the relevant regulations and guidance at the time of decommissioning and provided in the Onshore Decommissioning Plan (Commitment ID CO56). This will include a detailed assessment of decommissioning impacts and appropriate mitigation measures to avoid significant effects.  For assessment purposes, it is assumed that impacts during the decommissioning phase would be of similar nature to, and no worse than, those identified during the construction phase.					
SLU-D-02	Disruptions to farming practices (in general)			X	X	X	X	Decommissioning	Decommissioning activities not yet defined		Scoped In						
SLU-D-03	Soil heating			X	X			Decommissioning	Decommissioning activities not yet defined		Scoped Out						
SLU-D-04	Soil degradation and erosion			X	X	X	X	Decommissioning	Decommissioning activities not yet defined		Scoped In						
SLU-D-05	Impacts to stewardship and land management schemes			X	X	X	X	Decommissioning	Decommissioning activities not yet defined		Scoped In						
SLU-D-06	Impacts to existing utilities			X	X	X	X	Decommissioning	Decommissioning activities not yet defined		Scoped In						
SLU-D-07	Impacts to Public Rights of Way, Countryside Rights of Way and cycle routes			X	X	X	X	Decommissioning	Decommissioning activities not yet defined		Scoped In						

Chapter 23 Onshore Ecology and Ornithology

Impact ID	Impact	Impact Details							Project Phase	Project Activity	Commitments	Scoping	Preliminary Environmental Information Report (PEIR)				
		Array Area	Offshore Export Cable Corridor	Landfall	Onshore Export Cable Corridor	Onshore Converter Station	Energy Storage and Balancing Infrastructure	Project's Position at Scoping				Project's Position at PEIR	Receptor	Receptor Sensitivity / Value	Impact Magnitude	Effect Significance	Residual Effect Significance
ECO-C-01	Direct and indirect impacts to designated ecological sites			X	X	X	X	Construction	Construction activities, such as trenching, excavation, piling and movement of plant and equipment	Embedded Mitigation: CO32 CO33 CO35 CO36 CO38 CO39 CO40 CO41 CO42 CO46 CO47 CO55 CO65 CO70 CO81 CO83 CO85 CO100 CO101	Scoped In	Impact assessed in the PEIR	Greater Wash SPA	High	Negligible	Minor Adverse (Not Significant)	Minor Adverse (Not Significant)
													Humber Estuary SAC, SPA and Ramsar	High	Negligible	Minor Adverse (Not Significant)	Minor Adverse (Not Significant)
													Leven Canal SSSI	High	Negligible	Minor Adverse (Not Significant)	Minor Adverse (Not Significant)
													Bryan Mills Field SSSI	High	Negligible	Minor Adverse (Not Significant)	Minor Adverse (Not Significant)
													Burton Bushes SSSI	High	Negligible	Minor Adverse (Not Significant)	Minor Adverse (Not Significant)
													Tophill Low SSSI	High	Negligible	Minor Adverse (Not Significant)	Minor Adverse (Not Significant)
													Pulfin Bog SSSI	High	Negligible	Minor Adverse (Not Significant)	Minor Adverse (Not Significant)
													Beverley Parks LNR	Medium	Negligible	Minor Adverse (Not Significant)	Minor Adverse (Not Significant)
													Non-statutory sites	Medium	Negligible	Minor Adverse (Not Significant)	Minor Adverse (Not Significant)
ECO-C-02	Direct impacts to habitats			X	X	X	X	Construction	Construction activities, such as trenching, excavation and piling, and establishment of haul roads and temporary construction compounds resulting in temporary habitat loss, fragmentation and disturbance	Embedded Mitigation: CO23 CO32 CO33 CO35 CO36 CO38 CO39 CO40 CO41 CO42 CO46 CO47 CO55 CO59 CO65 CO70 CO81 CO82 CO100 CO101  Embedded Mitigation and Enhancement: CO82	Scoped In	Impact assessed in the PEIR	Priority and ancient woodlands	High	Negligible	Minor Adverse (Not Significant)	Minor Adverse (Not Significant)
													Woodlands	Medium	Negligible	Negligible (Not Significant)	Negligible (Not Significant)
													Arable field margins	High	Negligible	Minor Adverse (Not Significant)	Minor Adverse (Not Significant)
													Maritime cliff and slopes	High	Negligible	Minor Adverse (Not Significant)	Minor Adverse (Not Significant)
													Riparian and freshwater habitats - lowland fen, coastal and floodplain grazing marsh, and reedbed priority habitats	High	Negligible	Minor Adverse (Not Significant)	Minor Adverse (Not Significant)
													Riparian and freshwater habitats - running and standing waterbodies	Low	Negligible	Negligible (Not Significant)	Negligible (Not Significant)
													Hedgerows - native	High	Negligible	Minor Adverse (Not Significant)	Minor Adverse (Not Significant)
													Hedgerows- non-native and ornamental	Negligible	Negligible	Negligible (Not Significant)	Negligible (Not Significant)
ECO-C-03	Direct and indirect impacts on legally protected species			X	X	X	X	Construction	Construction activities, such as trenching, excavation, piling and movement of plant and equipment, resulting in species disturbance and displacement	Embedded Mitigation: CO32 CO33 CO35 CO36 CO38 CO39 CO40 CO41 CO42 CO46 CO47 CO55 CO65 CO70 CO81 CO82 CO84 CO85 CO86 CO87 CO88 CO89 CO90 CO91 CO92 CO100 CO101  Additional Mitigation: CO61	Scoped In	Impact assessed in the PEIR	Great crested newts	High	Medium	Moderate Adverse (Significant)	Potential residual effect: Minor Adverse (Not Significant) To be confirmed in the ES following development of further additional mitigation.
													Badgers	Medium	Medium Adverse	Moderate Adverse (Significant)	Potential residual effect: Minor Adverse (Not Significant) To be confirmed in the ES following development of further additional mitigation.
													Roosting bats	High	Medium Adverse	Major Adverse (Significant)	Potential residual effect: up to Moderate Adverse (Significant) (anticipated to be reduced to Minor Adverse subject to more specific mitigation measures) To be confirmed in the ES following development of further additional mitigation.
													Foraging and commuting Bats	High	Medium Adverse	Major Adverse (Significant)	Potential residual effect: up to Moderate Adverse (Significant) (anticipated to be reduced to Minor Adverse subject to more specific mitigation measures) To be confirmed in the ES following development of further additional mitigation.
													Overwintering and passage birds	High	Medium	Moderate Adverse (Significant)	Potential residual effect: Minor Adverse (Not Significant) To be confirmed in the ES following development of further additional mitigation.
													Breeding birds	High	High	Major Adverse (Significant)	Potential residual effect: Minor Adverse (Not Significant) To be confirmed in the ES following development of further additional mitigation.
													Protected fish species	High	Low	Moderate Adverse (Significant)	Potential residual effect: Minor Adverse (Not Significant) To be confirmed in the ES following development of further additional mitigation.
													Invertebrates	Medium	Low	Minor Adverse (Not Significant)	Minor Adverse (Not Significant)
													Otters	High	High	Major Adverse (Significant)	Potential residual effect: Minor Adverse (Not Significant) To be confirmed in the ES following development of further additional mitigation.
													Water voles	High	High	Major Adverse (Significant)	Potential residual effect: Minor Adverse (Not Significant) To be confirmed in the ES following development of further additional mitigation.
													Reptiles	Medium	Medium	Moderate Adverse (Significant)	Potential residual effect: Minor Adverse (Not Significant) To be confirmed in the ES following development of further additional mitigation.



Impact ID	Impact	Impact Details						Project Phase	Project Activity	Commitments	Scoping	Preliminary Environmental Information Report (PEIR)					
		Array Area	Offshore Export Cable Corridor	Landfall	Onshore Export Cable Corridor	Onshore Converter Station	Energy Storage and Balancing Infrastructure				Project's Position at Scoping	Project's Position at PEIR	Receptor	Receptor Sensitivity / Value	Impact Magnitude	Effect Significance	Residual Effect Significance
ECO-C-04	Spread of invasive non-native species			X	X	X	X	Construction	Construction activities, such as trenching, excavation, piling and movement of plant and equipment	Embedded Mitigation: CO32 CO33 CO35 CO39 CO42 CO46 CO47 CO61	Scoped In	Impact assessed in the PEIR	Invasive non-native species	Medium	Negligible	Negligible (Not Significant)	Negligible (Not Significant)
ECO-O-01	Direct and indirect impacts to designated ecological sites			X	X	X	X	Operation and Maintenance	Routine and unplanned maintenance activities, such as unscheduled excavations and presence of above-ground infrastructure during operation	Embedded Mitigation: CO60 CO61 CO63 CO66 CO71 CO81 CO83	Scoped In	Impact assessed in the PEIR	Statutory designated sites	High	Negligible	Minor Adverse (Not Significant)	Minor Adverse (Not Significant)
													Non-statutory designated sites	Medium	Negligible	Minor Adverse (Not Significant)	Minor Adverse (Not Significant)
ECO-O-02	Direct impacts to habitats			X	X	X	X	Operation and Maintenance	Routine and unplanned maintenance activities, such as unscheduled excavations, resulting in temporary habitat loss, fragmentation and disturbance, and presence of above-ground infrastructure during operation with potential for long-term habitat loss, fragmentation and disturbance	Embedded Mitigation: CO59 CO60 CO61 CO81 CO82	Scoped In	Impact assessed in the PEIR	Priority and ancient woodlands and veteran trees	High	Negligible	Minor Adverse (Not Significant)	Minor Adverse (Not Significant)
													Woodlands	Medium	Negligible	Negligible (Not Significant)	Negligible (Not Significant)
													Arable field margins	High	Negligible	Minor Adverse (Not Significant)	Minor Adverse (Not Significant)
													Maritime cliff and slopes	High	Negligible	Minor Adverse (Not Significant)	Minor Adverse (Not Significant)
													Riparian and freshwater habitats - lowland fen, coastal and floodplain grazing marsh, and reedbed priority habitats	High	Negligible	Minor Adverse (Not Significant)	Minor Adverse (Not Significant)
													Riparian and freshwater habitats - running and standing waterbodies	Low	Negligible	Negligible (Not Significant)	Negligible (Not Significant)
													Hedgerows - native	High	Negligible	Minor Adverse (Not Significant)	Minor Adverse (Not Significant)
													Hedgerows- non-native and ornamental	Negligible	Negligible	Negligible (Not Significant)	Negligible (Not Significant)
ECO-O-03	Direct and indirect impacts on legally protected species			X	X	X	X	Operation and Maintenance	Routine and unplanned maintenance activities, such as unscheduled excavations, resulting in species disturbance and displacement, and presence of above-ground infrastructure during operation with potential for displacement and light or noise disturbance	Embedded Mitigation: CO36 CO66 CO71 CO81 CO82	Scoped In	Impact assessed in the PEIR	All legally protected species	High	Negligible	Minor Adverse (Not Significant)	Minor Adverse (Not Significant)
ECO-O-04	Spread of invasive non-native species			X	X	X	X	Operation and Maintenance	Routine and unplanned maintenance activities such as unscheduled excavations	Embedded Mitigation: CO81	Scoped In	Impact assessed in the PEIR	Invasive non-native species	Medium	Negligible	Negligible (Not Significant)	Negligible (Not Significant)
ECO-D-01	Direct and indirect impacts to designated ecological sites			X	X	X	X	Decommissioning	Decommissioning activities not yet defined	Embedded Mitigation: CO56	Scoped In	The details and scope of onshore decommissioning works will be determined by the relevant regulations and guidance at the time of decommissioning and provided in the Onshore Decommissioning Plan (Commitment ID CO56). This will include a detailed assessment of decommissioning impacts and appropriate mitigation measures to avoid significant effects.  For assessment purposes, it is assumed that impacts during the decommissioning phase would be of similar nature to, and no worse than, those identified during the construction phase.					
ECO-D-02	Direct impacts to habitats			X	X	X	X	Decommissioning	Decommissioning activities not yet defined		Scoped In						
ECO-D-03	Direct and indirect impacts on legally protected species			X	X	X	X	Decommissioning	Decommissioning activities not yet defined		Scoped In						
ECO-D-04	Spread of invasive non-native species			X	X	X	X	Decommissioning	Decommissioning activities not yet defined		Scoped In						

Impact Details										Commitments	Scoping	Preliminary Environmental Information Report (PEIR)						
Impact ID	Impact	Project Element						Project Phase	Project Activity		Project's Position at Scoping	Project's Position at PEIR	Receptor	Receptor Sensitivity / Value	Impact Magnitude	Effect Significance	Residual Effect Significance	
		Array Area	Offshore Export Cable Corridor	Landfall	Onshore Export Cable Corridor	Onshore Converter Station	Energy Storage and Balancing Infrastructure											
ONA-C-01	Physical impacts to designated heritage assets			X	X	X	X	Construction	Construction activities, such as intrusive earthworks, establishment of temporary compounds and haul roads, plant and traffic movement	Embedded Mitigation: CO62	Scoped In	Impact assessed in the PEIR	Designated heritage assets	Medium to High	No Impact	No Change (Not Significant)	No Change (Not Significant)	
ONA-C-02	Physical impacts to known and unknown non-designated heritage assets			X	X	X	X	Construction	Construction activities, such as intrusive earthworks, establishment of temporary compounds and haul roads, plant and traffic movement	Embedded Mitigation: CO62 CO65 CO100 CO101	Scoped In	Impact assessed in the PEIR	Known and potential non-designated heritage assets including buried archaeological and geoaarchaeological / palaeoenvironmental remains, and above ground heritage assets	Low to High	Negligible to Low Adverse	Minor Adverse (Not Significant)	Minor Adverse (Not Significant)	
ONA-C-03	Changes to the setting of designated heritage assets, which could affect their heritage significance			X	X	X	X	Construction	Construction activities, such as intrusive earthworks, establishment of temporary compounds and haul roads, plant and traffic movement	Embedded Mitigation: CO39 CO62 CO65 CO73 CO100 CO101	Scoped In	Impact assessed in the PEIR	Designated heritage assets	Medium to High	Negligible to Low Adverse	Minor Adverse (Not Significant)	Minor Adverse (Not Significant)	
ONA-C-04	Changes to the setting of non-designated heritage assets, which could affect their heritage significance			X	X	X	X	Construction	Construction activities, such as intrusive earthworks, establishment of temporary compounds and haul roads, plant and traffic movement	Embedded Mitigation: CO39 CO62 CO65 CO73 CO100 CO101	Scoped In	Impact assessed in the PEIR	Non-designated heritage assets	Low to Medium	Negligible to Low Adverse	Minor Adverse (Not Significant)	Minor Adverse (Not Significant)	
ONA-C-05	Changes to the setting of historic landscapes, which could affect their heritage significance			X	X	X	X	Construction	Construction activities, such as intrusive earthworks, establishment of temporary compounds and haul roads, plant and traffic movement	Embedded Mitigation: CO39 CO62 CO65 CO73 CO100 CO101	Scoped In	Impact assessed in the PEIR	Historic landscapes	Medium	Negligible to Low Adverse	Minor Adverse (Not Significant)	Minor Adverse (Not Significant)	
ONA-O-01	Physical impacts to designated heritage assets			X	X	X	X	Operation and Maintenance	Arising through changes to drainage or heating	N/A	Scoped Out	Impact assessed in the PEIR	Designated heritage assets	Medium to High	No Impact	No Change (Not Significant)	No Change (Not Significant)	
ONA-O-02	Physical impacts to known and unknown non-designated heritage assets			X	X	X	X	Operation and Maintenance	Arising through changes to drainage or heating	N/A	Scoped Out	Impact assessed in the PEIR	Non-designated heritage assets	Low to High	No Impact	No Change (Not Significant)	No Change (Not Significant)	
ONA-O-03	Changes to the setting of designated heritage assets, which could affect their heritage significance					X	X	Operation and Maintenance	Presence of above-ground infrastructure within OCS zone during operation with potential for intervisibility	Embedded Mitigation: CO60 CO61 CO63 CO64 CO65 CO100 CO101	Scoped In	Impact assessed in the PEIR	Designated heritage assets	Medium (OCS Zone 4)  Medium to High (OCS Zone 8)	Low Adverse	Minor Adverse (Not Significant) (OCS Zone 4)  Minor to Moderate Adverse (Significant) (OCS Zone 8)  To be confirmed in the ES following development of further additional mitigation.		
ONA-O-04	Changes to the setting of non-designated heritage assets, which could affect their heritage significance					X	X	Operation and Maintenance	Presence of above-ground infrastructure within OCS zone during operation with potential for intervisibility	Embedded Mitigation: CO60 CO61 CO63 CO64 CO65 CO100 CO101	Scoped In	Impact assessed in the PEIR	Non-designated above ground heritage assets	Low to Medium	Low Adverse	Minor Adverse (Not Significant)	Minor Adverse (Not Significant)	
ONA-O-05	Changes to the setting of historic landscapes, which could affect their heritage significance					X	X	Operation and Maintenance	Presence of above-ground infrastructure within OCS zone during operation with potential for intervisibility	Embedded Mitigation: CO60 CO61 CO63 CO64 CO65 CO100 CO101	Scoped In	Impact assessed in the PEIR	Historic landscapes	Medium	Low Adverse	Minor Adverse (Not Significant)	Minor Adverse (Not Significant)	
ONA-D-01	Physical impacts to designated heritage assets			X	X	X	X	Decommissioning	Decommissioning activities not yet defined	Embedded Mitigation: CO56	Scoped Out	The details and scope of onshore decommissioning works will be determined by the relevant regulations and guidance at the time of decommissioning and provided in the Onshore Decommissioning Plan (Commitment ID CO56). This will include a detailed assessment of decommissioning impacts and appropriate mitigation measures to avoid significant effects.						
ONA-D-02	Physical impacts to known and unknown non-designated heritage assets			X	X	X	X	Decommissioning	Decommissioning activities not yet defined		Scoped Out							
ONA-D-03	Changes to the setting of designated heritage assets, which could affect their heritage significance			X	X	X	X	Decommissioning	Decommissioning activities not yet defined		Scoped In							
ONA-D-04	Changes to the setting of non-designated heritage assets, which could affect their heritage significance			X	X	X	X	Decommissioning	Decommissioning activities not yet defined		Scoped In							
ONA-D-05	Changes to the setting of historic landscapes, which could affect their heritage significance			X	X	X	X	Decommissioning	Decommissioning activities not yet defined		Scoped Out							
												For assessment purposes, it is assumed that impacts during the decommissioning phase would be of similar nature to, and no worse than, those identified during the construction phase.						





Chapter 26 Traffic and Transport

Impact ID	Impact	Impact Details						Project Phase	Project Activity	Commitments	Preliminary Environmental Information Report (PEIR)													
		Array Area	Offshore Export Cable Corridor	Landfall	Offshore Export Cable Corridor	Offshore Converter Station	Energy Storage and Balancing Infrastructure				Scoping	Project's Position at PEIR	Receptor	Receptor Sensitivity / Value	Impact Magnitude	Effect Significance	Residual Effect Significance							
TT-C-01	Severance							Construction	Road vehicle movements associated with onshore construction activities	<b>Embedded Mitigation:</b> C064 C069 C072 C073 C075 C076  <b>Additional Mitigation:</b> C073	Scoped in	Impact assessed in the PEIR	Links 3, 4, 7, 8, 9, 10, 11, 13, 14, 15, 16, 17, 18, 19, 31, 34, 37, 39, 40, 45, 46, 49, 50, 53, 57, 60, 65, 75	Low	Negligible	Negligible (Not Significant)	Negligible (Not Significant)							
		Links 58, 72, 84	Medium	Negligible	Minor Adverse (Not Significant)	Minor Adverse (Not Significant)																		
		Links 33, 35, 36, 51, 71, 82, 83, 86, 87, 88	High	Negligible	Minor Adverse (Not Significant)	Minor Adverse (Not Significant)																		
		Links 48, 52, 56, 69, 73, 100	Low	Low	Minor Adverse (Not Significant)	Minor Adverse (Not Significant)																		
		Link 81	Medium	Low	Minor Adverse (Not Significant)	Minor Adverse (Not Significant)																		
		Link 59	High	Low	Moderate Adverse (Significant)	To be confirmed in the ES following development of further additional mitigation.																		
		Links 67, 79, 85, 99	Low	Medium	Minor Adverse (Not Significant)	Minor Adverse (Not Significant)																		
TT-C-02	Amenity							Construction	Road vehicle movements associated with onshore construction activities	<b>Embedded Mitigation:</b> C064 C069 C072 C073 C075 C076  <b>Additional Mitigation:</b> C073	Scoped in	Impact assessed in the PEIR	Links 3, 4, 7, 9, 10, 11, 13, 14, 15, 16, 17, 18, 19, 31, 34, 37, 39, 40, 41, 45, 46, 57, 60, 65, 79	Low	Low	Minor Adverse (Not Significant)	Minor Adverse (Not Significant)							
		Links 8, 58, 84	Medium	Low	Minor Adverse (Not Significant)	Minor Adverse (Not Significant)																		
		Links 33, 35, 36, 82, 83, 86	High	Low	Moderate Adverse (Significant)	To be confirmed in the ES following development of further additional mitigation.																		
		Links 49, 50, 69, 85	Low	Medium	Minor Adverse (Not Significant)	Minor Adverse (Not Significant)																		
		Links 72, 73, 81	Medium	Medium	Moderate Adverse (Significant)	To be confirmed in the ES following development of further additional mitigation.																		
		Links 51, 71, 87, 88	High	Medium	Major Adverse (Significant)	To be confirmed in the ES following development of further additional mitigation.																		
		Links 48, 52, 53, 56, 67, 79, 99, 100	Low	High	Moderate Adverse (Significant)	Minor Adverse (Not Significant)																		
TT-C-03	Fear and intimidation							Construction	Road vehicle movements associated with onshore construction activities	<b>Embedded Mitigation:</b> C064 C069 C072 C073 C075 C076  <b>Additional Mitigation:</b> C073	Scoped in	Impact assessed in the PEIR	Links 3, 4, 7, 10, 11, 13, 14, 15, 16, 17, 18, 19, 31, 34, 37, 39, 40, 41, 45, 46, 48, 49, 50, 52, 53, 56, 57, 60, 65, 67, 69, 73, 75, 79, 85, 99, 100	Low	Negligible	Negligible (Not Significant)	Negligible (Not Significant)							
		Links 8, 58, 72, 81, 84	Medium	Negligible	Minor Adverse (Not Significant)	Minor Adverse (Not Significant)																		
		Links 33, 35, 36, 51, 59, 68, 71, 82, 83, 86, 87, 88	High	Negligible	Minor Adverse (Not Significant)	Minor Adverse (Not Significant)																		
		Link 9	Low	Low	Minor Adverse (Not Significant)	Minor Adverse (Not Significant)																		
		TT-C-04	Road safety (including hazardous loads)												Construction	Road vehicle movements and transport of hazardous materials associated with onshore construction activities	<b>Embedded Mitigation:</b> C064 C069 C072 C073 C074 C075 C076  <b>Additional Mitigation:</b> C073	Scoped in	Impact assessed in the PEIR	Links 79, 99	Negligible	High	Minor Adverse (Not Significant)	Minor Adverse (Not Significant)
				Links 6, 18, 25, 35, 42, 45, 50, 60, 61, 62, 63, 65, 74, 75, 76, 83, 89, 89	Low	Negligible	Negligible (Not Significant)						Negligible (Not Significant)											
				Links 9, 10, 11, 12, 71	Low	Low	Minor Adverse (Not Significant)						Minor Adverse (Not Significant)											
Links 16, 22, 23, 26, 36, 37, 40, 49, 54, 57, 58, 60, 87	Medium			Negligible	Minor Adverse (Not Significant)	Minor Adverse (Not Significant)																		
Links 8, 58, 72, 81, 84	Medium			Low	Minor Adverse (Not Significant)	Minor Adverse (Not Significant)																		
Links 20, 21, 24, 28, 30, 32, 33, 43	High			Negligible	Minor Adverse (Not Significant)	Minor Adverse (Not Significant)																		
Links 17, 31, 38, 41	High			Low	Moderate Adverse (Significant)	To be confirmed in the ES following development of further additional mitigation.																		
TT-C-05	Driver delay (capacity)							Construction	Road vehicle movements associated with onshore construction activities	<b>Embedded Mitigation:</b> C064 C069 C072 C073 C075 C076	Scoped in	To be assessed in the ES.	Links 39, 52	High	Medium	Major Adverse (Significant)	To be confirmed in the ES following development of further additional mitigation.							
		Link 51	High	High	Major Adverse (Significant)	To be confirmed in the ES following development of further additional mitigation.																		



Impact Details										Scoping		Preliminary Environmental Information Report (PEIR)						
Impact ID	Impact	Project Element						Project Phase	Project Activity	Commitments	Project's Position at Scoping	Project's Position at PEIR	Receptor	Receptor Sensitivity / Value	Impact Magnitude	Effect Significance	Residual Effect Significance	
		Aviation Area	Offshore Export Cable Corridor	Landfill	Onshore Export Cable Corridor	Onshore Converter Station	Energy Storage and Balancing Infrastructure											
TT-C-06	Driver delay (highway geometry)			X	X	X	X	Construction	Road vehicle movements associated with onshore construction activities	Embedded Mitigation: CO64 CO69 CO12 CO73 CO75 CO76 CO77 CO78  Additional Mitigation: CO79	Scoped In	Impact assessed in the PEIR	Link 64	Low	Negligible	Negligible (Not Significant)	Negligible (Not Significant)	
													Link 70	Medium	Negligible	Minor Adverse (Not Significant)	Minor Adverse (Not Significant)	
													Link 57	Low	Medium	Minor Adverse (Not Significant)	Minor Adverse (Not Significant)	
													Links 69, 85	Medium	Medium	Moderate Adverse (Significant)	To be confirmed in the ES following development of further additional mitigation Minor Adverse (Not Significant)	
													Link 72	High	Medium	Major Adverse (Significant)	To be confirmed in the ES following development of further additional mitigation Minor Adverse (Not Significant)	
													Links 73, 79	Low	High	Moderate adverse (Significant)	To be confirmed in the ES following development of further additional mitigation Minor Adverse (Not Significant)	
													Link 81	Medium	High	Major Adverse (Significant)	To be confirmed in the ES following development of further additional mitigation Minor Adverse (Not Significant)	
													Links 56, 67, 68, 99, 100	High	High	Major Adverse (Significant)	To be confirmed in the ES following development of further additional mitigation	
TT-C-07	Driver delay (road closures)			X	X	X	X	Construction	Road vehicle movements associated with onshore construction activities	Embedded Mitigation: CO64 CO69 CO12 CO73 CO75 CO76 CO77 CO78  Additional Mitigation: CO79	Scoped In	Impact assessed in the PEIR	Bewholme Lane Dunington Lane Rootes Lane (east) Middlehowe Road	Low	Low	Minor Adverse (Not Significant)	Minor Adverse (Not Significant)	
													Burshill Carr Road Dunflat Road	Low	High	Moderate Adverse (Significant)	Minor Adverse (Not Significant) To be confirmed in the ES following development of further additional mitigation	
TT-C-08	Abnormal loads			X	X	X	X	Construction	Road vehicle movements and transport of abnormal loads associated with onshore construction activities	Embedded Mitigation: CO64 CO69 CO12 CO73 CO75 CO76	Scoped In	To be assessed in the ES.						
TT-C-09	Hazardous loads			X	X	X	X	Construction	Road vehicle movements and transport of hazardous materials associated with onshore construction activities	N/A	Scoped Out	Impact scoped out at scoping stage with the Planning Inspectorate's agreement.	The impact is scoped out. Rather than a stand-alone assessment of hazardous loads, it was agreed with the Planning Inspectorate that the road safety assessment (TT-C-04) would also cover hazardous loads.					
TT-C-10	Onshore impacts of traffic associated with offshore construction activities and any cumulative effects	X	X	X				Construction	Road vehicle movements associated with deliveries and personnel transport to/from ports to enable offshore construction works	Embedded Mitigation: CO102	Scoped Out	Traffic impacts from road vehicle movements due to port operations associated with the Project's offshore construction activities will be covered in the Port Access Management Plan if determined to be required post-consent (Commitment ID CO102).						
TT-O-01	Sovereignty			X	X	X	X	Operation and Maintenance	Road vehicle movements associated with onshore O&M activities	N/A	Scoped Out	Impact scoped out at scoping stage with the Planning Inspectorate's agreement.	These impacts are scoped out, as O&M traffic movements will only be generated during infrequent routine and unplanned inspection and maintenance activities. The low vehicle demand is unlikely to result in significant effects.					
TT-O-02	Amenity			X	X	X	X	Operation and Maintenance	Road vehicle movements associated with onshore O&M activities	N/A	Scoped Out	Impact scoped out at scoping stage with the Planning Inspectorate's agreement.						
TT-O-03	Fear and intimidation			X	X	X	X	Operation and Maintenance	Road vehicle movements associated with onshore O&M activities	N/A	Scoped Out	Impact scoped out at scoping stage with the Planning Inspectorate's agreement.						
TT-O-04	Road safety (hazardous loads only)						X	Operation and Maintenance	Transport of hazardous loads associated with replacement of ESBI components	N/A	Scoped In	Impact assessed in the PEIR	Links 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 38, 39, 40, 41, 42, 43, 46, 48, 49, 50, 52, 74 and 75	Negligible	High	Minor Adverse (Not Significant)	Minor Adverse (Not Significant)	
				X	X	X		Operation and Maintenance	Road vehicle movements associated with onshore O&M activities	N/A	Scoped Out	Impact scoped out at scoping stage with the Planning Inspectorate's agreement.						
TT-O-05	Driver delay (capacity)			X	X	X	X	Operation and Maintenance	Road vehicle movements associated with onshore O&M activities	N/A	Scoped Out	Impact scoped out at scoping stage with the Planning Inspectorate's agreement.	These impacts are scoped out, as O&M traffic movements will only be generated during infrequent routine and unplanned inspection and maintenance activities. The low vehicle demand is unlikely to result in significant effects.					
TT-O-06	Driver delay (highway geometry)			X	X	X	X	Operation and Maintenance	Road vehicle movements associated with onshore O&M activities	N/A	Scoped Out	Impact scoped out at scoping stage with the Planning Inspectorate's agreement.						
TT-O-07	Driver delay (road closures)			X	X	X	X	Operation and Maintenance	Road vehicle movements associated with onshore O&M activities	N/A	Scoped Out	Impact scoped out at scoping stage with the Planning Inspectorate's agreement.						
TT-O-08	Abnormal loads			X	X	X	X	Operation and Maintenance	Road vehicle movements and transport of abnormal loads associated with onshore O&M activities	N/A	Scoped Out	Impact scoped out at scoping stage with the Planning Inspectorate's agreement.						
TT-O-09	Hazardous loads			X	X	X	X	Operation and Maintenance	Road vehicle movements associated with onshore O&M activities	N/A	Scoped Out	Impact scoped out at scoping stage with the Planning Inspectorate's agreement.	The impact is scoped out. Rather than a stand-alone assessment of hazardous loads, it was agreed with the Planning Inspectorate that the road safety assessment (TT-O-04) would also cover hazardous loads.					
TT-O-10	Onshore impacts of traffic associated with offshore decommissioning activities and any cumulative effects	X	X	X				Operation and Maintenance	Road vehicle movements associated with deliveries and personnel transport to/from ports to enable offshore O&M works	Embedded Mitigation: CO102	Scoped Out	Traffic impacts from road vehicle movements due to port operations associated with the Project's offshore O&M activities will be covered in the Port Access Management Plan if determined to be required post-consent (Commitment ID CO102).						
TT-D-01	Sovereignty			X	X	X	X	Decommissioning	Decommissioning activities not yet defined	Embedded Mitigation: CO56	Scoped In	The details and scope of onshore decommissioning works will be determined by the relevant regulations and guidance at the time of decommissioning and provided in the Onshore Decommissioning Plan (Commitment ID CO56). This will include a detailed assessment of decommissioning impacts and appropriate mitigation measures to avoid significant effects.  For assessment purposes, it is assumed that impacts during the decommissioning phase would be of similar nature to, and no worse than, those identified during the construction phase.						
TT-D-02	Amenity			X	X	X	X	Decommissioning	Decommissioning activities not yet defined		Scoped In							
TT-D-03	Fear and intimidation			X	X	X	X	Decommissioning	Decommissioning activities not yet defined		Scoped In							
TT-D-04	Road safety (hazardous loads only)			X	X	X	X	Decommissioning	Decommissioning activities not yet defined		Scoped In							
TT-D-05	Driver delay (capacity)			X	X	X	X	Decommissioning	Decommissioning activities not yet defined		Scoped In							
TT-D-06	Driver delay (highway geometry)			X	X	X	X	Decommissioning	Decommissioning activities not yet defined		Scoped In							
TT-D-07	Driver delay (road closures)			X	X	X	X	Decommissioning	Decommissioning activities not yet defined		Scoped In							
TT-D-08	Abnormal loads			X	X	X	X	Decommissioning	Decommissioning activities not yet defined		Scoped In							
TT-D-09	Hazardous loads			X	X	X	X	Decommissioning	Decommissioning activities not yet defined		Scoped In							
TT-D-10	Onshore impacts of traffic associated with offshore decommissioning activities and any cumulative effects	X	X	X				Decommissioning	Decommissioning activities not yet defined		Scoped In							

Chapter 27 Landscape and Visual Impacts

Impact ID	Impact	Impact Details						Project Phase	Project Activity	Commitments	Scoping	Preliminary Environmental Information Report (PEIR)					
		Array Area	Offshore Export Cable Corridor	Landfall	Onshore Export Cable Corridor	Onshore Converter Station	Energy Storage and Balancing Infrastructure				Project's Position at Scoping	Project's Position at PEIR	Receptor	Receptor Sensitivity / Value	Impact Magnitude	Effect Significance	Residual Effect Significance
LV-C-01	Impacts on landscape character and designated landscapes			X				Construction	Construction activities at the landfall and along the onshore ECC	<b>Embedded Mitigation:</b> CO23 CO39 CO46 CO47 CO59 CO60 CO65 CO83 CO85 CO100 CO101  <b>Additional Mitigation:</b> To be determined at ES stage.	Scoped In	Impact assessed in the PEIR	Landscape character (landfall)	Medium	Medium	Moderate Adverse (Significant) within approximately 1km of the landfall.  Not Significant beyond 1km of the landfall.	To be determined in the ES following development of further additional mitigation.
					X								Landscape character (onshore ECC)	Medium	Low	Minor adverse (Not significant)	To be determined in the ES following development of further additional mitigation.
LV-C-02	Impacts on landscape character and designated landscapes					X	X	Construction	Construction activities within the OCS zone, including infrastructure within the OCS zone.	<b>Embedded Mitigation:</b> CO39 CO46 CO47 CO59 CO60 CO65 CO85 CO100  <b>Additional Mitigation:</b> To be determined at ES stage.	Scoped In	Impact assessed in the PEIR	Landscape character (OCS Zone 4)	Medium	Medium	Moderate Adverse (Significant) in the area defined by Minster Way and the edge of Beverly to the north, Long Lane and Model Farm to the east, Birkhill Wood and the A1079 to the south, and the A164 to the west.  Not Significant beyond these areas.	To be determined in the ES following development of further additional mitigation.
													Landscape character (OCS Zone 8)	High	High	Major Adverse (Significant) in the area defined by Risby Park woodlands to the south and west, Walkington to the north and Johnson's Pit, Eleven Acre Wood and Bentley to the east.  Not Significant beyond these areas.	To be determined in the ES following development of further additional mitigation.
LV-C-03	Impacts on visual receptors			X				Construction	Construction activities at the landfall and along the onshore ECC	<b>Embedded Mitigation:</b> CO23 CO39 CO47 CO59 CO60 CO65 CO83 CO85 CO100 CO101  <b>Additional Mitigation:</b> To be determined at ES stage.	Scoped In	Impact assessed in the PEIR	Visual receptors (landfall)	Medium	Medium	Moderate adverse (Significant)	To be determined in the ES following development of further additional mitigation.
					X								Visual Receptors (onshore ECC)	Medium	Low	Minor Adverse (Not Significant)	To be determined in the ES following development of further additional mitigation.
LV-C-04	Impacts on visual receptors					X	X	Construction	Construction activities within the OCS zone, including infrastructure within the OCS zone.	<b>Embedded Mitigation:</b> CO39 CO47 CO59 CO60 CO65 CO85 CO100  <b>Additional Mitigation:</b> To be determined at ES stage.	Scoped In	Impact assessed in the PEIR	VP1: Shepherd Lane	Medium	Medium	Moderate Adverse (Significant)	To be determined in the ES following development of further additional mitigation.
													VP2: Beverley 20 near Jillywood Farm	Medium	Medium	Moderate Adverse (Significant)	To be determined in the ES following development of further additional mitigation.
													VP3: Beverley Parks	Medium	High	Major Adverse (Significant)	To be determined in the ES following development of further additional mitigation.
													VP4: Long Lane	Medium	Medium	Moderate Adverse (Significant)	To be determined in the ES following development of further additional mitigation.
													VP5: Footpath, Walkington	High	Low	Minor Adverse (Not Significant)	To be determined in the ES following development of further additional mitigation.
													VP6: Core Path near Bentley	Medium	High	Major Adverse (Significant)	To be determined in the ES following development of further additional mitigation.
													VP7: Risby Park	High	Low	Minor Adverse (Not Significant)	To be determined in the ES following development of further additional mitigation.
													VP8: Little Weighton	High	Low	Minor Adverse (Not Significant)	To be determined in the ES following development of further additional mitigation.
LV-O-01	Impacts on landscape character and designated landscapes			X			Operation and Maintenance	Presence of above-ground infrastructure at landfall and onshore ECC (e.g. above-ground link boxes, bollards, marker posts etc.)	<b>Embedded Mitigation:</b> CO59 CO60 CO61 CO65 CO83 CO100  <b>Additional Mitigation:</b> To be determined at ES stage.	Scoped Out	Impact scoped out at scoping stage with the Planning Inspectorate's agreement.	This impact is scoped out, as all landfall infrastructure will be buried underground during operation.					
					X						Scoped Out	Impact assessed in the PEIR	Landscape character (onshore ECC)	Medium	Low	Minor Adverse (Not Significant)	To be determined in the ES following development of further additional mitigation.
LV-O-02	Impacts on landscape character and designated landscapes					X	X	Operation and Maintenance	Presence of above-ground infrastructure within OCS zone	<b>Embedded Mitigation:</b> CO59 CO63 CO64 CO65 CO66 CO100  <b>Additional Mitigation:</b> To be determined at ES stage.	Scoped In	Impact assessed in the PEIR	Landscape character (OCS Zone 4)	Medium	High	Major Adverse (Significant) within the local area of the OCS Zone, in the area defined by the edge of Beverly to the north, Long Lane to the east, Birkhill Wood to the south, and the A164 to the west.  Not Significant beyond these areas.	To be determined in the ES following development of further additional mitigation.
													Landscape character (OCS Zone 8)	High	High	Major Adverse (Significant) within the local area of the OCS Zone, in the area defined by the woodland blocks of Risby Park to the south and west, Walkington to the north, and Johnson's Pit Wood, Eleven Acre Plantation and Bentley village to the east.  Not Significant beyond these areas.	To be determined in the ES following development of further additional mitigation.
LV-C-03	Impacts on visual receptors			X			Operation and Maintenance	Presence of above-ground infrastructure at landfall and along onshore ECC (e.g. above-ground link boxes, bollards, marker posts etc.)	<b>Embedded Mitigation:</b> CO59 CO60 CO61 CO65 CO83 CO100  <b>Additional Mitigation:</b> To be determined at ES stage.	Scoped Out	Impact scoped out at scoping stage with the Planning Inspectorate's agreement.	This impact is scoped out, as all landfall infrastructure will be buried underground during operation.					
					X						Scoped Out	Impact assessed in the PEIR	Visual receptors (onshore ECC)	Medium	Low	Minor adverse (Not significant)	To be determined in the ES following development of further additional mitigation.



Impact Details										Commitments	Scoping	Preliminary Environmental Information Report (PEIR)						
Impact ID	Impact	Project Element						Project Phase	Project Activity			Project's Position at Scoping	Project's Position at PEIR	Receptor	Receptor Sensitivity / Value	Impact Magnitude	Effect Significance	Residual Effect Significance
		Array Area	Offshore Export Cable Corridor	Landfall	Onshore Export Cable Corridor	Onshore Converter Station	Energy Storage and Balancing Infrastructure											
LV-O-04	Impacts on visual receptors					X	X	Operation and Maintenance	Presence of above-ground infrastructure within OCS zone	<b>Embedded Mitigation:</b> CO59 CO63 CO64 CO65 CO66 CO100  <b>Additional Mitigation:</b> To be determined at ES stage.	Scoped In	Impact assessed in the PEIR	VP1: Shepherd Lane	Medium	High	Major adverse (Significant)	To be determined in the ES following development of further additional mitigation.	
		VP2: Beverley 20 near Jillywood Farm	Medium	High	Moderate adverse (Significant)	To be determined in the ES following development of further additional mitigation.												
		VP3: Beverley Parks	Medium	High	Major adverse (Significant)	To be determined in the ES following development of further additional mitigation.												
		VP4: Long Lane	Medium	Medium	Moderate adverse (Significant)	To be determined in the ES following development of further additional mitigation.												
		VP5: Footpath, Walkington	High	Medium	Moderate adverse (Significant)	To be determined in the ES following development of further additional mitigation.												
		VP6: Core Path near Bentley	Medium	High	Major adverse (Significant)	To be determined in the ES following development of further additional mitigation.												
		VP7: Risby Park	High	Medium	Moderate adverse (Significant)	To be determined in the ES following development of further additional mitigation.												
		VP8: Little Weighton	High	Low	Minor adverse (Not significant)	To be determined in the ES following development of further additional mitigation.												
LV-D-01	Impacts on landscape character and designated landscapes			X	X		Decommissioning	Decommissioning activities not yet defined	<b>Embedded Mitigation:</b> CO56	Scoped Out	The details and scope of onshore decommissioning works will be determined by the relevant regulations and guidance at the time of decommissioning and provided in the Onshore Decommissioning Plan (Commitment ID CO56). This will include a detailed assessment of decommissioning impacts and appropriate mitigation measures to avoid significant effects.  For assessment purposes, it is assumed that impacts during the decommissioning phase would be of similar nature to, and no worse than, those identified during the construction phase.							
LV-D-02	Impacts on landscape character and designated landscapes				X	X	Decommissioning	Decommissioning activities not yet defined		Scoped In								
LV-D-03	Impacts on visual receptors			X	X		Decommissioning	Decommissioning activities not yet defined		Scoped Out								
LV-D-04	Impacts on visual receptors				X	X	Decommissioning	Decommissioning activities not yet defined		Scoped In								

Chapter 28 Major Accidents and Disasters

Impact Details										Commitments	Scoping	Preliminary Environmental Information Report (PEIR)					
Impact ID	Impact	Project Element						Project Phase	Project Activity		Project's Position at Scoping	Project's Position at PEIR	Receptor	Receptor Sensitivity / Value	Impact Magnitude	Effect Significance	Residual Effect Significance
		Array Area	Offshore Export Cable Corridor	Landfall	Onshore Export Cable Corridor	Onshore Converter Station	Energy Storage and Balancing Infrastructure										
MAD-C-01	Major accident or disaster impact arising from the ESBI element of the OCS zone upon the Project site, human or environmental receptors						X	Construction	On-site incidents during construction of the ESBI.	N/A	Scoped Out	Impact scoped out at scoping stage with the Planning Inspectorate's agreement.	These impacts are scoped out, as it is assumed that the Project's construction activities will comply with existing health and safety regulations and best practice.				
MAD-C-02	Impact of an incident associated with an existing major accident hazard risk on the ESBI element of the OCS zone, human or environmental receptors						X	Construction	Off-site incidents during construction of the ESBI.	N/A	Scoped Out	Impact scoped out at scoping stage with the Planning Inspectorate's agreement.					
MAD-C-03	Impact of natural hazards on the ESBI element of the OCS zone, human or environmental receptors						X	Construction	Natural hazards during construction of the ESBI.	N/A	Scoped Out	Impact scoped out at scoping stage with the Planning Inspectorate's agreement.					
MAD-C-04	Major accident or disaster impacts associated with all other project infrastructure	X	X	X	X	X		Construction	On-site and off-site incidents and natural hazards during construction of the Array Area, offshore and onshore ECC, landfall and OCS.	N/A	Scoped Out	Impact scoped out at scoping stage with the Planning Inspectorate's agreement.	This impact is scoped out, as it was agreed with the Planning Inspectorate that the only project element that requires consideration in the major accidents and disasters is the ESBI. Consideration of major accidents and disasters for other project elements are adequately covered by other EIA topic chapters.				
MAD-O-01	Major accident or disaster impact arising from the ESBI element of the OCS zone upon the Project site, human or environmental receptors						X	Operation and Maintenance	On-site incidents during operation and commissioning of the ESBI.	Embedded Mitigation: CO79 CO96 CO97	Scoped In	Impact assessed in the PEIR	ESBI Human Receptors Environmental Receptors	ESBI and Human Receptors: High Environmental Receptors: Medium	ESBI and Human Receptors: Medium Environmental Receptors: Low	ESBI and Human Receptors: Minor Adverse (Not Significant) Environmental Receptors: Negligible (Not Significant)	ESBI and Human Receptors: Minor Adverse (Not Significant) Environmental Receptors: Negligible (Not Significant)
MAD-O-02	Impact of an incident associated with an existing major accident hazard risk on the ESBI element of the OCS zone, human or environmental receptors						X	Operation and Maintenance	Off-site incidents during operation and commissioning of the ESBI.	Embedded Mitigation: CO79 CO96 CO97 CO105	Scoped In	Impact assessed in the PEIR	ESBI Human Receptors Environmental Receptors	ESBI and Environmental Receptors: Medium Human Receptors: Medium to High	ESBI: Medium Human Receptors: Medium to High Environmental Receptors: Low	ESBI: Negligible (Not Significant) Human Receptors: Negligible to Minor Adverse (Not Significant) Environmental Receptors: Negligible (Not Significant)	ESBI: Negligible (Not Significant) Human Receptors: Negligible to Minor Adverse (Not Significant) Environmental Receptors: Negligible (Not Significant)
MAD-O-03	Impact of natural hazards on the ESBI element of the OCS zone, human or environmental receptors						X	Operation and Maintenance	Natural hazards during operation and commissioning of the ESBI.	Embedded Mitigation: CO79 CO96 CO97	Scoped In	Impact assessed in the PEIR	ESBI Human Receptors Environmental Receptors	No Change (Not Significant)			
MAD-O-04	Major accident or disaster impacts associated with all other project infrastructure	X	X	X	X	X		Operation and Maintenance	On-site and off-site incidents and natural hazards during operation of the Array Area, offshore and onshore ECC, landfall and OCS.	N/A	Scoped Out	Impact scoped out at scoping stage with the Planning Inspectorate's agreement.	This impact is scoped out, as it was agreed with the Planning Inspectorate that the only project element that requires consideration in the major accidents and disasters is the ESBI. Consideration of major accidents and disasters for other project elements are adequately covered by other EIA topic chapters.				
MAD-D-01	Major accident or disaster impact arising from the ESBI element of the OCS zone upon the Project site, human or environmental receptors						X	Decommissioning	Decommissioning activities not yet defined	Embedded Mitigation: CO56	Scoped In	The details and scope of onshore decommissioning works will be determined by the relevant regulations and guidance at the time of decommissioning and provided in the Onshore Decommissioning Plan (Commitment ID CO56). This will include a detailed assessment of decommissioning impacts and appropriate mitigation measures to avoid significant effects.  For assessment purposes, it is assumed that the risks associated with the ESBI during decommissioning would be no worse than those identified during commissioning and operation of the ESBI.					
MAD-D-02	Impact of an incident associated with an existing major accident hazard risk on the ESBI element of the OCS zone, human or environmental receptors						X	Decommissioning	Decommissioning activities not yet defined								
MAD-D-03	Impact of natural hazards on the ESBI element of the OCS zone, human or environmental receptors						X	Decommissioning	Decommissioning activities not yet defined								
MAD-D-04	Major accident or disaster impacts associated with all other project infrastructure	X	X	X	X	X		Decommissioning	Decommissioning activities not yet defined	N/A	Scoped Out	Impact scoped out at scoping stage with the Planning Inspectorate's agreement.	This impact is scoped out, as it was agreed with the Planning Inspectorate that the only project element that requires consideration in the major accidents and disasters is the ESBI. Consideration of major accidents and disasters for other project elements are adequately covered by other EIA topic chapters.				

Chapter 29 Human Health

Impact ID	Impact	Impact Details						Project Phase	Project Activity	Commitments	Scoping	Preliminary Environmental Information Report (PEIR)					
		Project Element										Project's Position at PEIR	Receptor	Receptor Sensitivity / Value	Impact Magnitude	Effect Significance	Residual Effect Significance
		Array Area	Offshore Export Cable Corridor	Landfall	Onshore Export Cable Corridor	Onshore Converter Station	Energy Storage and Balancing Infrastructure				Project's Position at Scoping						
HH-C-01	Impacts on housing availability, value and affordability (offshore and onshore)	X	X	X	X	X	X	Construction	Provision of temporary accommodation for offshore and onshore construction workers and onshore construction activities	N/A	Scoped Out	Impact scoped out at scoping stage with the Planning Inspectorate's agreement.	This impact is scoped out. Temporary accommodation requirements are likely to be met through usual accommodation capacity and not considered to have potential for a likely significant population health effect due to changes in housing availability. Onshore construction activities are considered to have limited potential for any widespread adverse effect on housing value or affordability that could affect public health.				
HH-C-02	Impacts on open space, leisure and play (offshore)	X	X	X				Construction	Vessel movements and port operations associated with offshore construction activities	N/A	Scoped Out	Impact scoped out at scoping stage with the Planning Inspectorate's agreement.	This impact is scoped out. It is considered unlikely that shipping or port activities associated with the Project would affect nearshore recreation, leisure and play to an extent where there could be significant implications for public health.				
HH-C-03	Impacts on open space, leisure and play (onshore)			X	X	X	X	Construction	Onshore construction activities	Embedded Mitigation: CO57	Scoped In	Impact assessed in the PEIR	Site-specific and local population	General Population: Low Vulnerable Sub-Population: High	Low	Minor Adverse (Not Significant)	Minor Adverse (Not Significant)
HH-C-04	Impacts on transport modes, access and connections (offshore)	X	X	X				Construction	Vessel movements and port operations associated with offshore construction activities.	N/A	Scoped Out	Impact scoped out at scoping stage with the Planning Inspectorate's agreement.	This impact is scoped out. Port environmental impacts are not considered likely to result from the Project's construction activities.				
HH-C-05	Impacts on transport modes, access and connections (onshore)			X	X	X	X	Construction	Onshore construction activities and associated road vehicle movements	Embedded Mitigation: CO39 CO57 CO73	Scoped In	Impact assessed in the PEIR	Site-specific, local and regional population	General Population: Low Vulnerable Sub-Population: High	Low	Minor Adverse (Not Significant)	Minor Adverse (Not Significant)
HH-C-06	Impacts on community safety (offshore and onshore)	X	X	X	X	X	X	Construction	Presence of offshore and onshore construction workers	N/A	Scoped Out	Impact scoped out at scoping stage with the Planning Inspectorate's agreement.	This impact is scoped out. The potential for widespread actual or perceived crime, or issues linked to risk taking behaviour, that could affect population health is unlikely.				
HH-C-07	Impacts on community identify, culture, resilience and influence (offshore)	X	X	X				Construction	Presence of offshore construction workers and offshore construction activities	N/A	Scoped Out	Impact scoped out at scoping stage with the Planning Inspectorate's agreement.	This impact is scoped out. Offshore visual impacts are not expected due to the distance of surface-protruding infrastructure from shore. Demographic changes that could affect community identity are not anticipated, as there would not be a large in-migration or out-migration of workers to / from local communities.				
HH-C-08	Impacts on community identify, culture, resilience and influence (onshore)			X	X	X	X	Construction	Presence of onshore construction workers and onshore construction activities	N/A	Scoped Out	Impact scoped out at scoping stage with the Planning Inspectorate's agreement.	This impact is scoped out. Temporary construction of onshore infrastructure are not expected to be of a scale of visual impact that could affect population health outcomes.				
HH-C-09	Impacts on education and training (offshore and onshore)	X	X	X	X	X	X	Construction	Offshore and onshore construction activities	Enhancement CO67	Scoped In	Impact assessed in the PEIR	Site-specific, local and regional population	General Population: Low Vulnerable Sub-Population: High	Negligible	Minor Beneficial (Not Significant)	Potential Moderate Beneficial (Significant) effect depending on the development of the Outline ESP (Commitment ID CO67)  To be confirmed at ES stage.
HH-C-10	Impacts on employment and income (offshore and onshore)	X	X	X	X	X	X	Construction	Offshore and onshore construction activities	Enhancement CO67	Scoped In	Impact assessed in the PEIR	Site-specific, local and regional population	General Population: Low Vulnerable Sub-Population: High	Low	Minor Beneficial (Not Significant) and Minor Adverse (Not Significant)	Potential Moderate Beneficial (Significant) effect depending on the development of the Outline ESP (Commitment ID CO67)  To be confirmed at ES stage.
HH-C-11	Impacts on unemployment and adverse economic implications (offshore and onshore)	X	X	X	X	X	X	Construction	Offshore and onshore construction activities	N/A	Scoped Out	Impact scoped out at scoping stage with the Planning Inspectorate's agreement.	This impact is scoped out. The Project's construction activities have the potential to provide good quality employment opportunities and are unlikely to have significant unemployment or adverse economic implications.				
HH-C-12	Impacts on climate change and adaptation (offshore and onshore)	X	X	X	X	X	X	Construction	Offshore and onshore construction activities	N/A	Scoped Out	Impact scoped out at scoping stage with the Planning Inspectorate's agreement.	This impact is scoped out. The Project's construction greenhouse gas emissions would not be of a scale to have the potential for population health level effects on national or global health inequalities associated with climate change.				
HH-C-13	Impacts on air quality (offshore)	X	X	X				Construction	Offshore construction activities	N/A	Scoped Out	Impact scoped out at scoping stage with the Planning Inspectorate's agreement.	This impact is scoped out. It was agreed with the Planning Inspectorate that offshore air quality can be scoped out as an EIA topic.				
HH-C-14	Impacts on air quality (onshore)			X	X	X	X	Construction	Dust and fine particulate emissions, plant, equipment and road vehicle exhaust emissions associated with onshore construction activities	Embedded Mitigation: CO39 CO55	Scoped In	Impact assessed in the PEIR	Site-specific, local and regional population	General Population: Low Vulnerable Sub-Population: High	Negligible	Minor Adverse (Not Significant)	Minor Adverse (Not Significant)
HH-C-15	Impacts on water quality and availability (offshore)	X	X	X				Construction	Offshore construction activities	N/A	Scoped In	Evidence of the absence of likely significant effect provided in the PEIR	This impact is scoped out. Offshore construction activities will be required to comply with the existing marine pollution regulations and standards, and therefore unlikely to lead to a significant population health effect.				
HH-C-16	Impacts on water quality and availability (onshore)			X	X	X	X	Construction	Accidental pollution associated with onshore construction activities	Embedded Mitigation: CO38 CO49	Scoped In	Impact assessed in the PEIR	Site-specific and local population	General Population: Low Vulnerable Sub-Population: High	Negligible	Minor Adverse (Not Significant)	Minor Adverse (Not Significant)
HH-C-17	Impacts on land quality (offshore and onshore)	X	X	X	X	X	X	Construction	Offshore and onshore construction activities	N/A	Scoped Out	Impact scoped out at scoping stage with the Planning Inspectorate's agreement.	This impact is scoped out. Any new or historic contamination that may be mobilised by construction activities will be managed by standard best practice and existing regulations. Direct exposure and food contamination are unlikely, and therefore a significant population health effect is not anticipated.				
HH-C-18	Impacts from noise and vibration (offshore)	X	X	X				Construction	Offshore construction activities	N/A	Scoped Out	Impact scoped out at scoping stage with the Planning Inspectorate's agreement.	This impact is scoped out. It was agreed with the Planning Inspectorate that offshore airborne noise can be scoped out as an EIA topic.				
HH-C-19	Impacts from noise and vibration (onshore)			X	X	X	X	Construction	Noise and vibration associated with onshore construction activities and associated road vehicle movements	Embedded Mitigation: CO70	Scoped In	Impact assessed in the PEIR	Site-specific and local population	General Population: Low Vulnerable Sub-Population: High	Low	Minor Adverse (Not Significant)	Minor Adverse (Not Significant)



Impact ID	Impact	Impact Details						Project Phase	Project Activity	Commitments	Scoping	Preliminary Environmental Information Report (PEIR)					
		Project Element									Project's Position at Scoping	Project's Position at PEIR	Receptor	Receptor Sensitivity / Value	Impact Magnitude	Effect Significance	Residual Effect Significance
		Array Area	Offshore Export Cable Corridor	Landfall	Onshore Export Cable Corridor	Onshore Converter Station	Energy Storage and Balancing Infrastructure										
HH-C-20	Impacts from electro-magnetic field exposure (offshore and onshore)	X	X	X	X	X	X	Construction	Use of electromagnetic field generating plant and equipment during offshore and onshore construction activities	N/A	Scoped Out	Impact scoped out at scoping stage with the Planning Inspectorate's agreement.	This impact is scoped out. Construction works would not include using, or making changes to, active major electrical infrastructure producing electromagnetic field. Existing public and occupational safeguards would be followed for any temporary electrical equipment used.				
HH-C-21	Impacts from public perception of electro-magnetic field risk (onshore)			X	X	X	X	Construction	N/A	N/A	Scoped Out	Impact scoped out at scoping stage with the Planning Inspectorate's agreement.	The impact is scoped out, as there is no potential impact pathway during construction.				
HH-C-22	Impacts from public perception of electro-magnetic field risk (offshore)	X	X	X				Construction	N/A	N/A	Scoped Out	Impact scoped out at scoping stage with the Planning Inspectorate's agreement.	The impact is scoped out, as there is no potential impact pathway during construction.				
HH-C-23	Impacts on health and social care services (offshore and onshore)	X	X	X	X	X	X	Construction	Provision of health and social care services for offshore and onshore construction workers	N/A	Scoped Out	Impact scoped out at scoping stage with the Planning Inspectorate's agreement.	The impact is scoped out. The Project would operate appropriate occupational health services, and no large influx of workers to local areas are anticipated. Potential for significant population health effects from changes in temporary demand for healthcare capacity are not considered likely.				
HH-C-24	Impacts on built environment (offshore)	X	X	X				Construction	Offshore construction activities	N/A	Scoped Out	Impact scoped out at scoping stage with the Planning Inspectorate's agreement.	The impact is scoped out. Significant population health effects are not anticipated from interactions with offshore utilities and waste generation.				
HH-C-25	Impacts on built environment (onshore)			X	X	X	X	Construction	Onshore construction activities	N/A	Scoped Out	Impact scoped out at scoping stage with the Planning Inspectorate's agreement.	The impact is scoped out. Significant population health effects are not anticipated from interactions with onshore utilities and roads.				
HH-C-26	Wider societal infrastructure and resources (offshore)	X	X	X				Construction	N/A	N/A	Scoped Out	Impact scoped out at scoping stage with the Planning Inspectorate's agreement.	The impact is scoped out, as there is no potential impact pathway during construction.				
HH-C-27	Wider societal infrastructure and resources (onshore)			X	X	X	X	Construction	N/A	N/A	Scoped Out	Impact scoped out at scoping stage with the Planning Inspectorate's agreement.	The impact is scoped out, as there is no potential impact pathway during construction.				
HH-O-01	Impacts on housing availability, value and affordability (offshore and onshore)	X	X	X	X	X	X	Operation and Maintenance	Provision of temporary accommodation for offshore and onshore O&M workers and onshore O&M activities	N/A	Scoped Out	Impact scoped out at scoping stage with the Planning Inspectorate's agreement.	This impact is scoped out. Temporary accommodation requirements are likely to be met through usual accommodation capacity and not considered to have potential for a likely significant population health effect due to changes in housing availability. Onshore O&M activities are considered to have limited potential for any widespread adverse effect on housing value or affordability that could affect public health.				
HH-O-02	Impacts on open space, leisure and play (offshore)	X	X	X				Operation and Maintenance	Vessel movements and port operations associated with offshore O&M activities	N/A	Scoped Out	Impact scoped out at scoping stage with the Planning Inspectorate's agreement.	This impact is scoped out. It is considered unlikely that shipping or port activities associated with the Project would affect nearshore recreation, leisure and play to an extent where there could be significant implications for public health.				
HH-O-03	Impacts on open space, leisure and play (onshore)			X	X	X	X	Operation and Maintenance	Onshore O&M activities and presence of infrastructure during operation	N/A	Scoped Out	Impact scoped out at scoping stage with the Planning Inspectorate's agreement.	This impact is scoped out. It is considered unlikely that land take for onshore infrastructure would be within or adjoining land that is publicly accessible and used for recreation, leisure or play to an extent where there could be significant implications on physical, mental or social health aspects of community recreation.				
HH-O-04	Impacts on transport modes, access and connections (offshore)	X	X	X				Operation and Maintenance	Vessel movements and port operations associated with offshore construction activities.	N/A	Scoped Out	Impact scoped out at scoping stage with the Planning Inspectorate's agreement.	This impact is scoped out. Port environmental impacts are not considered likely to result from the Project's O&M activities.				
HH-O-05	Impacts on transport modes, access and connections (onshore)			X	X	X	X	Operation and Maintenance	Onshore O&M activities and associated road vehicle movements	N/A	Scoped Out	Impact scoped out at scoping stage with the Planning Inspectorate's agreement.	This impact is scoped out. O&M activity for the Project's onshore infrastructure is expected to require low vehicle demand and therefore unlikely to result in a significant population health due to changes in routine or emergency health-related journey travel times, access to health promoting goods and services, community severance or road safety.				
HH-O-06	Impacts on community safety (offshore and onshore)	X	X	X	X	X	X	Operation and Maintenance	Presence of offshore and onshore O&M workers	N/A	Scoped Out	Impact scoped out at scoping stage with the Planning Inspectorate's agreement.	This impact is scoped out. The potential for widespread actual or perceived crime, or issues linked to risk taking behaviour, that could affect population health is unlikely.				
HH-O-07	Impacts on community identify, culture, resilience and influence (offshore)	X	X	X				Operation and Maintenance	Presence of offshore O&M activities and infrastructure during operation	N/A	Scoped Out	Impact scoped out at scoping stage with the Planning Inspectorate's agreement.	This impact is scoped out. Offshore visual impacts are not expected due to the distance of surface-protruding infrastructure from shore. Demographic changes that could affect community identity are not anticipated, as there would not be a large in-migration or out-migration of workers to / from local communities.				
HH-O-08	Impacts on community identify, culture, resilience and influence (onshore)			X	X	X	X	Operation and Maintenance	Presence of onshore workforce during routine and unplanned O&M activities, presence of onshore infrastructure during operation and onshore routine and unplanned O&M activities	Embedded Mitigation: CO65	Scoped In	Impact assessed in the PEIR	Site-specific and local population	General Population: Low Vulnerable Sub-Population: High	Low	Minor Adverse (Not Significant)	Minor Adverse (Not Significant)
HH-O-09	Impacts on education and training (offshore and onshore)	X	X	X	X	X	X	Operation and Maintenance	Offshore and onshore routine and unplanned O&M activities	Enhancement: CO67	Scoped In	Impact assessed in the PEIR	Local and regional population	General Population: Low Vulnerable Sub-Population: High	Negligible	Negligible Beneficial (Not Significant)	Potential Moderate Beneficial (Significant) effect depending on the development of the Outline ESP (Commitment ID CO67)  To be confirmed at ES stage.
HH-O-10	Impacts on employment and income (offshore and onshore)	X	X	X	X	X	X	Operation and Maintenance	Offshore and onshore routine and unplanned O&M activities	Enhancement: CO67	Scoped In	Impact assessed in the PEIR	Local and regional population	General Population: Low Vulnerable Sub-Population: High	Negligible	Negligible Beneficial (Not Significant)	Potential Moderate Beneficial (Significant) effect depending on the development of the Outline ESP (Commitment ID CO67)  To be confirmed at ES stage.
HH-O-11	Impacts on unemployment and adverse economic implications (offshore and onshore)	X	X	X	X	X	X	Operation and Maintenance	Offshore and onshore O&M activities	N/A	Scoped Out	Impact scoped out at scoping stage with the Planning Inspectorate's agreement.	This impact is scoped out. The Project's O&M activities have the potential to provide good quality employment opportunities and are unlikely to have significant unemployment or adverse economic implications.				

Impact Details										Commitments	Scoping	Preliminary Environmental Information Report (PEIR)					
Impact ID	Impact	Project Element						Project Phase	Project Activity		Project's Position at Scoping	Project's Position at PEIR	Receptor	Receptor Sensitivity / Value	Impact Magnitude	Effect Significance	Residual Effect Significance
		Array Area	Offshore Export Cable Corridor	Landfall	Onshore Export Cable Corridor	Onshore Converter Station	Energy Storage and Balancing Infrastructure										
HH-O-12	Impacts on climate change and adaptation (offshore and onshore)	X	X	X	X	X	X	Operation and Maintenance	Provision of renewable energy during operation of the wind farm and other potential carbon benefits enabled by the ESBi	N/A	Scoped In	Impact assessed in the PEIR	National and international population	General Population: Low Vulnerable Sub-Population: High	Low	Minor Beneficial (Not Significant)	Minor Beneficial (Not Significant)
HH-O-13	Impacts on air quality (offshore)	X	X	X				Operation and Maintenance	Offshore O&M activities	N/A	Scoped Out	Impact scoped out at scoping stage with the Planning Inspectorate's agreement.	This impact is scoped out. It was agreed with the Planning Inspectorate that offshore air quality can be scoped out as an EIA topic.				
HH-O-14	Impacts on air quality (onshore)			X	X	X	X	Operation and Maintenance	Dust and fine particulate emissions, plant, equipment and road vehicle exhaust emissions associated with onshore O&M activities	N/A	Scoped In	Evidence of the absence of likely significant effect provided in the PEIR	This impact is scoped out. Routine and unplanned maintenance activities are limited and not anticipated to be of a scale, even accounting for non-threshold effects, that could affect population health.				
HH-O-15	Impacts on water quality and availability (offshore)	X	X	X				Operation and Maintenance	Offshore O&M activities	N/A	Scoped In	Evidence of the absence of likely significant effect provided in the PEIR	This impact is scoped out. Offshore O&M activities will be required to comply with the existing marine pollution regulations and standards, and therefore unlikely to lead to a significant population health effect.				
HH-O-16	Impacts on water quality and availability (onshore)			X	X	X	X	Operation and Maintenance	Accidental pollution associated with onshore O&M activities	N/A	Scoped Out	Impact scoped out at scoping stage with the Planning Inspectorate's agreement.	This impact is scoped out. Routine and unplanned maintenance activities are limited and not anticipated to result in a significant water-related public health effect.				
HH-O-17	Impacts on land quality (offshore and onshore)	X	X	X	X	X	X	Operation and Maintenance	Offshore and onshore O&M activities	N/A	Scoped Out	Impact scoped out at scoping stage with the Planning Inspectorate's agreement.	This impact is scoped out. Any new or historic contamination that may be mobilised by O&M activities will be managed by standard best practice and existing regulations. Direct exposure and food contamination are unlikely, and therefore a significant population health effect is not anticipated.				
HH-O-18	Impacts from noise and vibration (offshore)	X	X	X				Operation and Maintenance	Offshore O&M activities	N/A	Scoped Out	Impact scoped out at scoping stage with the Planning Inspectorate's agreement.	This impact is scoped out. It was agreed with the Planning Inspectorate that offshore airborne noise can be scoped out as an EIA topic.				
HH-O-19	Impacts from noise and vibration (onshore)			X	X	X	X	Operation and Maintenance	Noise and vibration associated with onshore O&M activities and associated road vehicle movements	Embedded Mitigation: CO71	Scoped In	Impact assessed in the PEIR	Site-specific population	General Population: Low Vulnerable Sub-Population: High	Low	Minor Adverse (Not Significant)	Minor Adverse (Not Significant)
HH-O-20	Impacts from electro-magnetic field exposure (offshore and onshore)	X	X	X	X	X	X	Operation and Maintenance	Presence of offshore and onshore electrical infrastructure during operation	N/A	Scoped Out	Impact scoped out at scoping stage with the Planning Inspectorate's agreement.	This impact is scoped out. Offshore electrical infrastructure would not be located near communities. Existing public and occupational safeguards on electromagnetic field emissions would be adhered to in the project design, and actual physical health risks due to non-ionising electromagnetic field emissions are unlikely.				
HH-O-21	Impacts from public perception of electro-magnetic field risk (onshore)			X	X	X	X	Operation and Maintenance	Presence of onshore electrical infrastructure during operation	Embedded Mitigation: CO64 CO65	Scoped In	Impact assessed in the PEIR	Site-specific and local population	General Population: Low Vulnerable Sub-Population: High	Low	Minor Adverse (Not Significant)	Minor Adverse (Not Significant)
HH-O-22	Impacts from public perception of electro-magnetic field risk (offshore)	X	X	X				Operation and Maintenance	Presence of offshore electrical infrastructure during operation	N/A	Scoped Out	Impact scoped out at scoping stage with the Planning Inspectorate's agreement.	This impact is scoped out. Offshore electrical infrastructure would not be located near communities to create concern among members of the public about exposure to electromagnetic field emissions and therefore mental health implications are not anticipated.				
HH-O-23	Impacts on health and social care services (offshore and onshore)	X	X	X	X	X	X	Operation and Maintenance	Provision of health and social care services for offshore and onshore O&M workers	N/A	Scoped Out	Impact scoped out at scoping stage with the Planning Inspectorate's agreement.	The impact is scoped out. The Project would operate appropriate occupational health services, and no large influx of workers to local areas are anticipated. Potential for significant population health effects from changes in temporary demand for healthcare capacity are not considered likely.				
HH-O-24	Impacts on built environment (offshore)	X	X	X				Operation and Maintenance	Disruption to third-party assets during offshore routine and unplanned O&M activities and presence of offshore infrastructure during operation	N/A	Scoped Out	Impact scoped out at scoping stage with the Planning Inspectorate's agreement.	The impact is scoped out. Due to the distance offshore, there would be very limited direct impacts on human receptors, and therefore, there is unlikely to be waste management, land use or infrastructure use implications on a scale that could affect population health.				
HH-O-25	Impacts on built environment (onshore)			X	X	X	X	Operation and Maintenance	Disruption to third-party assets during onshore routine and unplanned O&M activities and presence of onshore infrastructure during operation	Embedded Mitigation: CO79 CO96 CO106	Scoped In	Impact assessed in the PEIR	Site-specific and local population	General Population: Low Vulnerable Sub-Population: High	Low	Minor Adverse (Not Significant)	Minor Adverse (Not Significant)
HH-O-26	Wider societal infrastructure and resources (offshore)	X	X	X				Operation and Maintenance	Provision of renewable energy during operation of the wind farm	N/A	Scoped In	Impact assessed in the PEIR	National population	General Population: Low Vulnerable Sub-Population: High	Medium	Moderate Beneficial (Significant)	Moderate Beneficial (Significant)
HH-O-27	Wider societal infrastructure and resources (onshore)			X	X	X	X	Operation and Maintenance	N/A	N/A	Scoped Out	Impact scoped out at scoping stage with the Planning Inspectorate's agreement.	The impact is scoped out. The onshore infrastructure would transmit electricity generated by the offshore wind farm into the UK electricity transmission network and facilitate the benefits accrued from the renewable energy generating assets. To avoid double counting, this impact is covered under the offshore impact only (HH-O-26).				



Impact Details										Commitments	Scoping	Preliminary Environmental Information Report (PEIR)					
Impact ID	Impact	Project Element						Project Phase	Project Activity		Project's Position at Scoping	Project's Position at PEIR	Receptor	Receptor Sensitivity / Value	Impact Magnitude	Effect Significance	Residual Effect Significance
		Array Area	Offshore Export Cable Corridor	Landfall	Onshore Export Cable Corridor	Onshore Converter Station	Energy Storage and Balancing Infrastructure										
HH-D-01	Impacts on housing availability, value and affordability (offshore and onshore)	X	X	X	X	X	X	Decommissioning	Decommissioning activities not yet defined	Embedded Mitigation: CO21 CO56	Scoped Out	The details and scope of decommissioning works will be determined by the relevant regulations and guidance at the time of decommissioning and provided in the Offshore Decommissioning Programme and Onshore Decommissioning Plan (Commitment IDs CO21 and CO56). This will include a detailed assessment of decommissioning impacts and appropriate mitigation measures to avoid significant effects.  For assessment purposes, it is assumed that impacts during the decommissioning phase would be of similar nature to, and no worse than, those identified during the construction phase.					
HH-D-02	Impacts on open space, leisure and play (offshore)	X	X	X				Decommissioning	Decommissioning activities not yet defined		Scoped Out						
HH-D-03	Impacts on open space, leisure and play (onshore)			X	X	X	X	Decommissioning	Decommissioning activities not yet defined		Scoped In						
HH-D-04	Impacts on transport modes, access and connections (offshore)	X	X	X				Decommissioning	Decommissioning activities not yet defined		Scoped Out						
HH-D-05	Impacts on transport modes, access and connections (onshore)			X	X	X	X	Decommissioning	Decommissioning activities not yet defined		Scoped In						
HH-D-06	Impacts on community safety (offshore and onshore)	X	X	X	X	X	X	Decommissioning	Decommissioning activities not yet defined		Scoped Out						
HH-D-07	Impacts on community identify, culture, resilience and influence (offshore)	X	X	X				Decommissioning	Decommissioning activities not yet defined		Scoped Out						
HH-D-08	Impacts on community identify, culture, resilience and influence (onshore)			X	X	X	X	Decommissioning	Decommissioning activities not yet defined		Scoped Out						
HH-D-09	Impacts on education and training (offshore and onshore)	X	X	X	X	X	X	Decommissioning	Decommissioning activities not yet defined		Scoped In						
HH-D-10	Impacts on employment and income (offshore and onshore)	X	X	X	X	X	X	Decommissioning	Decommissioning activities not yet defined		Scoped In						
HH-D-11	Impacts on unemployment and adverse economic implications (offshore and onshore)	X	X	X	X	X	X	Decommissioning	Decommissioning activities not yet defined		Scoped Out						
HH-D-12	Impacts on climate change and adaptation (offshore and onshore)	X	X	X	X	X	X	Decommissioning	Decommissioning activities not yet defined		Scoped Out						
HH-D-13	Impacts on air quality (offshore)	X	X	X				Decommissioning	Decommissioning activities not yet defined		Scoped Out						
HH-D-14	Impacts on air quality (onshore)			X	X	X	X	Decommissioning	Decommissioning activities not yet defined		Scoped In						
HH-D-15	Impacts on water quality and availability (offshore)	X	X	X				Decommissioning	Decommissioning activities not yet defined		Scoped Out						
HH-D-16	Impacts on water quality and availability (onshore)			X	X	X	X	Decommissioning	Decommissioning activities not yet defined		Scoped In						
HH-D-17	Impacts on land quality (offshore and onshore)	X	X	X	X	X	X	Decommissioning	Decommissioning activities not yet defined		Scoped Out						
HH-D-18	Impacts from noise and vibration (offshore)	X	X	X				Decommissioning	Decommissioning activities not yet defined		Scoped Out						
HH-D-19	Impacts from noise and vibration (onshore)			X	X	X	X	Decommissioning	Decommissioning activities not yet defined		Scoped In						
HH-D-20	Impacts from electro-magnetic field exposure (offshore and onshore)	X	X	X	X	X	X	Decommissioning	Decommissioning activities not yet defined		Scoped Out						
HH-D-21	Impacts from public perception of electro-magnetic field risk (onshore)			X	X	X	X	Decommissioning	Decommissioning activities not yet defined		Scoped Out						
HH-D-22	Impacts from public perception of electro-magnetic field risk (offshore)	X	X	X				Decommissioning	Decommissioning activities not yet defined		Scoped Out						
HH-D-23	Impacts on health and social care services (offshore and onshore)	X	X	X	X	X	X	Decommissioning	Decommissioning activities not yet defined		Scoped Out						
HH-D-24	Impacts on built environment (offshore)	X	X	X				Decommissioning	Decommissioning activities not yet defined		Scoped Out						
HH-D-25	Impacts on built environment (onshore)			X	X	X	X	Decommissioning	Decommissioning activities not yet defined		Scoped Out						
HH-D-26	Wider societal infrastructure and resources (offshore)	X	X	X				Decommissioning	Decommissioning activities not yet defined		Scoped Out						
HH-D-27	Wider societal infrastructure and resources (onshore)			X	X	X	X	Decommissioning	Decommissioning activities not yet defined		Scoped Out						

Impact Details										Commitments	Scoping	Preliminary Environmental Information Report (PEIR)					
Impact ID	Impact	Project Element						Project Phase	Project Activity		Project's Position at Scoping	Project's Position at PEIR	Receptor	Receptor Sensitivity / Value	Impact Magnitude	Effect Significance	Residual Effect Significance
		Array Area	Offshore Export Cable Corridor	Landfall	Onshore Export Cable Corridor	Onshore Converter Station	Energy Storage and Balancing Infrastructure										
SOC-C-01	Direct economic benefit from supply chain expenditure (offshore and onshore)	X	X	X	X	X	X	Construction	Offshore and onshore construction activities	Embedded Mitigation / Enhancement: CO67	Scoped In	Impact assessed in the PEIR	Local Socio-Economic Study Area	Medium	High	Major (Beneficial) (Significant)	Major (Beneficial) (Significant)
		Regional Study Area	Low	Low	Minor (Beneficial) (Not Significant)	Minor (Beneficial) (Not Significant)											
		UK	Low	Negligible	Negligible (Beneficial) (Not Significant)	Negligible (Beneficial) (Not Significant)											
SOC-C-02	Increased employment (offshore and onshore)	X	X	X	X	X	X	Construction	Workforce requirement for offshore and onshore construction activities	Embedded Mitigation / Enhancement: CO67	Scoped In	Impact assessed in the PEIR	Local Socio-Economic Study Area	Medium	High	Major (Beneficial) (Significant)	Major (Beneficial) (Significant)
		Regional Study Area	Low	Low	Minor (Beneficial) (Not Significant)	Minor (Beneficial) (Not Significant)											
		UK	Low	Negligible	Negligible (Beneficial) (Not Significant)	Negligible (Beneficial) (Not Significant)											
SOC-C-03	Loss of, disruption to or pressure on local infrastructure and services (offshore and onshore)	X	X	X	X	X	X	Construction	Offshore and onshore construction activities	Embedded Mitigation / Enhancement: CO67	Scoped In	Impact assessed in the PEIR	Local Socio-Economic Study Area	Low	To be determined at ES stage.		
SOC-C-04	Disturbance to social infrastructure (offshore and onshore)	X	X	X	X	X	X	Construction	Offshore and onshore construction activities	N/A	Scoped In	Impact assessed in the PEIR	Residential properties within 150m and between 150m and 180m of trenchless crossing entry pits locations along the onshore ECC	High	Negligible	Minor (Adverse) (Not Significant)	Minor (Adverse) (Not Significant)
													Residential properties proximate to landfall, OCS Zone 4 and OCS Zone 8	Negligible	Negligible	Negligible (Adverse) (Not Significant)	Negligible (Adverse) (Not Significant)
SOC-C-05	Disruption to recreational activities (offshore and onshore)	X	X	X	X	X	X	Construction	Offshore and onshore construction activities	N/A	Scoped In	Impact assessed in the PEIR	Recreational assets within the Local Tourism and Recreation Area for which residual significant adverse effects were identified by other EIA topic chapters	Negligible	Negligible	Negligible (Adverse) (Not Significant)	Negligible (Adverse) (Not Significant)
													Recreational assets within the Local Tourism and Recreation Area for which no residual significant adverse effects were identified by other EIA topic chapters	Negligible	No Impact	No Change (Not Significant)	No Change (Not Significant)
SOC-C-06	Disruption to the tourism industry (offshore and onshore)	X	X	X	X	X	X	Construction	Offshore and onshore construction activities	N/A	Scoped In	Impact assessed in the PEIR	Tourism assets within the Local Tourism and Recreation Area for which residual significant adverse effects were identified by other EIA topic chapters	Negligible	Negligible	Negligible (Adverse) (Not Significant)	Negligible (Adverse) (Not Significant)
													Tourism assets within the Local Tourism and Recreation Area for which no residual significant adverse effects were identified by other EIA topic chapters	Negligible	No Impact	No Change (Not Significant)	No Change (Not Significant)
SOC-O-01	Direct economic benefit from supply chain expenditure (offshore and onshore)	X	X	X	X	X	X	Operation and Maintenance	Offshore and onshore operational and routine and unplanned maintenance activities	Embedded Mitigation / Enhancement: CO67	Scoped In	Impact assessed in the PEIR	Local Socio-Economic Study Area	Medium	N/A		
													Regional Study Area	Low	Negligible	Negligible (Beneficial) (Not Significant)	Negligible (Beneficial) (Not Significant)
													UK	Low	Negligible	Negligible (Beneficial) (Not Significant)	Negligible (Beneficial) (Not Significant)
SOC-O-02	Increased employment (offshore and onshore)	X	X	X	X	X	X	Operation and Maintenance	Workforce requirement for offshore and onshore operational and routine and unplanned maintenance activities	Embedded Mitigation / Enhancement: CO67	Scoped In	Impact assessed in the PEIR	Local Socio-Economic Study Area	Medium	N/A		
													Regional Study Area	Low	Negligible	Negligible (Beneficial) (Not Significant)	Negligible (Beneficial) (Not Significant)
													UK	Low	Negligible	Negligible (Beneficial) (Not Significant)	Negligible (Beneficial) (Not Significant)
SOC-O-03	Loss of, disruption to or pressure on local infrastructure and services (offshore and onshore)	X	X	X	X	X	X	Operation and Maintenance	Offshore and onshore operational and routine and unplanned maintenance activities and presence of infrastructure during operation	Embedded Mitigation / Enhancement: CO67	Scoped Out	Impact assessed in the PEIR	Local Socio-Economic Study Area	Low	No Impact	No Change (Not Significant)	No Change (Not Significant)
SOC-O-04	Disturbance to social infrastructure (onshore)			X	X	X	X	Operation and Maintenance	Presence of onshore infrastructure during operation	N/A	Scoped In	Impact assessed in the PEIR	Residential properties proximate to OCS Zone 4 and OCS Zone 8	Negligible	Negligible	Negligible (Adverse) (Not Significant)	Negligible (Adverse) (Not Significant)
SOC-O-05	Disruption to recreational activities (onshore)			X	X	X	X	Operation and Maintenance	Presence of onshore infrastructure during operation	N/A	Scoped In	Impact assessed in the PEIR	Recreational assets within the Local Tourism and Recreation Area for which residual significant adverse effects were identified by other EIA topic chapters	Negligible	Negligible	Negligible (Adverse) (Not Significant)	Negligible (Adverse) (Not Significant)
													Recreational assets within the Local Tourism and Recreation Area for which no residual significant adverse effects were identified by other EIA topic chapters	Negligible	No Impact	No Change (Not Significant)	No Change (Not Significant)

Impact ID	Impact	Impact Details						Project Phase	Project Activity	Commitments	Scoping	Preliminary Environmental Information Report (PEIR)					
		Array Area	Offshore Export Cable Corridor	Landfall	Onshore Export Cable Corridor	Onshore Converter Station	Energy Storage and Balancing Infrastructure					Project's Position at Scoping	Project's Position at PEIR	Receptor	Receptor Sensitivity / Value	Impact Magnitude	Effect Significance
SOC-O-06	Disruption to the tourism industry (onshore)			X	X	X	X	Operation and Maintenance	Presence of onshore infrastructure during operation	N/A	Scoped In	Impact assessed in the PEIR	Tourism assets within the Local Tourism and Recreation Area for which residual significant adverse effects were identified by other EIA topic chapters	Negligible	Low	Negligible (Adverse) (Not Significant)	Negligible (Adverse) (Not Significant)
													Tourism assets within the Local Tourism and Recreation Area for which no residual significant adverse effects were identified by other EIA topic chapters	Negligible	No Impact	No Change (Not Significant)	No Change (Not Significant)
SOC-O-07	Disturbance to social infrastructure (offshore)	X	X	X				Operation and Maintenance	Presence of offshore infrastructure during operation	N/A	Scoped Out	Impact scoped out at scoping stage with the Planning Inspectorate's agreement.	All social infrastructure assets within the Local Socio-Economic Study Area	These impacts are scoped out. The offshore elements of the Project are unlikely to result in these operational impacts due to the distance between the surface protruding offshore infrastructure and the receptors and the spatial extent associated with these impacts.			
SOC-O-08	Disruption to recreational activities (offshore)	X	X	X				Operation and Maintenance	Presence of offshore infrastructure during operation	N/A	Scoped Out	Impact scoped out at scoping stage with the Planning Inspectorate's agreement.	All marine recreational assets within the Local Tourism and Recreation Area				
SOC-O-09	Disruption to the tourism industry (offshore)	X	X	X				Operation and Maintenance	Presence of offshore infrastructure during operation	N/A	Scoped Out	Impact scoped out at scoping stage with the Planning Inspectorate's agreement.	All marine tourism assets within the Local Tourism and Recreation Area				
SOC-D-01	Direct economic benefit from supply chain expenditure (offshore and onshore)	X	X	X	X	X	X	Decommissioning	Decommissioning activities not yet defined	N/A	Scoped In	Impact assessed in the PEIR	Local Socio-Economic Study Area	Medium	N/A		
													Regional Study Area	Low	Low	Minor (Beneficial) (Not Significant)	Minor (Beneficial) (Not Significant)
													UK	Low	Negligible	Negligible (Beneficial) (Not Significant)	Negligible (Beneficial) (Not Significant)
SOC-D-02	Increased employment (offshore and onshore)	X	X	X	X	X	X	Decommissioning	Decommissioning activities not yet defined	N/A	Scoped In	Impact assessed in the PEIR	Local Socio-Economic Study Area	Medium	N/A		
													Regional Study Area	Low	Low	Minor (Beneficial) (Not Significant)	Minor (Beneficial) (Not Significant)
													UK	Low	Negligible	Negligible (Beneficial) (Not Significant)	Negligible (Beneficial) (Not Significant)
SOC-D-03	Loss of, disruption to or pressure on local infrastructure and services (offshore and onshore)	X	X	X	X	X	X	Decommissioning	Decommissioning activities not yet defined	N/A	Scoped In	Impact assessed in the PEIR	Local Socio-Economic Study Area	Low	No impact	No Change (Not Significant)	No Change (Not Significant)
SOC-D-04	Disturbance to social infrastructure (offshore and onshore)	X	X	X	X	X	X	Decommissioning	Decommissioning activities not yet defined	Embedded Mitigation: CO21 CO56	Scoped In		The details and scope of decommissioning works will be determined by the relevant regulations and guidance at the time of decommissioning and provided in the Offshore Decommissioning Programme and Onshore Decommissioning Plan (Commitment IDs CO21 and CO56). This will include a detailed assessment of decommissioning impacts and appropriate mitigation measures to avoid significant effects.  For assessment purposes, it is assumed that impacts during the decommissioning phase would be of similar nature to, and no worse than, those identified during the construction phase.				
SOC-D-05	Disruption to recreational activities (offshore and onshore)	X	X	X	X	X	X	Decommissioning	Decommissioning activities not yet defined								
SOC-D-06	Disruption to the tourism industry (offshore and onshore)	X	X	X	X	X	X	Decommissioning	Decommissioning activities not yet defined								



Chapter 31 Climate Change																	
Impact ID	Impact	Impact Details						Project Phase	Project Activity	Commitments	Scoping	Preliminary Environmental Information Report (PEIR)					
		Array Area	Offshore Export Cable Corridor	Landfall	Onshore Export Cable Corridor	Onshore Converter Station	Energy Storage and Balancing Infrastructure				Project's Position at Scoping	Project's Position at PEIR	Receptor	Receptor Sensitivity / Value	Impact Magnitude	Effect Significance	Residual Effect Significance
Greenhouse Gas Assessment																	
GHG-C-01	Construction greenhouse gas emissions	X	X	X	X	X	X	Construction	Offshore and onshore construction activities: A0 - Pre-construction A1 – Extraction and processing of raw materials A2 – Transport to manufacturing site A3 – Manufacturing of products A4 – Transport to construction site A5 – Construction	Embedded Mitigation: CO98	Scoped In	Impact assessed in the PEIR	Global atmosphere	High	N/A Impact magnitude is not specified as part of the topic-specific assessment methodology.	Minor Adverse (Not Significant)	Minor Adverse (Not Significant)
GHG-O-01	Operation and maintenance greenhouse gas emissions	X	X	X	X	X	X	Operation and Maintenance	Offshore and onshore O&M activities: B1 – Use B2 – Maintenance B3 – Repair B4 – Replacement	Embedded Mitigation: CO98 CO99	Scoped In	Impact assessed in the PEIR	Global atmosphere	High	N/A Impact magnitude is not specified as part of the topic-specific assessment methodology.	Negligible (Not Significant)	Negligible (Not Significant)
									Offshore and onshore O&M activities: B5 - Refurbishment B6 - Operational Energy Use B7 - Operational Water Use B8 - Other Operational Processes B9 - User's Utilisation of Infrastructure	N/A	Scoped Out	Impact scoped out at scoping stage with the Planning Inspectorate's agreement.	These emission sources are not assessed, as they are not relevant to the Project's activities or are unlikely to contribute significantly to greenhouse gas emissions during the O&M phase.				
GHG-O-02	Avoided emissions	X	X	X	X	X	X	Operation and Maintenance	Supply of renewable energy generated by the wind farm to the UK electricity transmission network and other potential carbon benefits enabled by the ESBt: D2 – Avoided emissions from exported energy	N/A	Scoped In	Impact assessed in the PEIR	Global atmosphere	High	N/A Impact magnitude is not specified as part of the topic-specific assessment methodology.	Beneficial (Significant)	Beneficial (Significant)
									D1 Avoided emissions from re-use, energy recovery and recycling	N/A	Scoped Out	Impact scoped out at scoping stage with the Planning Inspectorate's agreement.	This emission source is not assessed due to lack of information availability but is unlikely to change the overall effect significance of the Project's avoided emissions (GHG-O-02).				
GHG-D-01	Decommissioning greenhouse gas emissions	X	X	X	X	X	X	Decommissioning	Offshore and onshore decommissioning activities: C1 – Deconstruction and demolition C2 – Transport to end-of-life destinations C3 – Waste processing C4 – Disposal	Embedded Mitigation: CO98	Scoped In	Impact assessed in the PEIR	Global atmosphere	High	N/A Impact magnitude is not specified as part of the topic-specific assessment methodology.	Negligible (Not Significant)	Negligible (Not Significant)
									Offshore and onshore decommissioning activities: C5 - Relandscaping	N/A	Scoped Out	Impact scoped out at scoping stage with the Planning Inspectorate's agreement.	This emission source is not assessed due to lack of information availability but is unlikely to change the overall effect significance of the Project's decommissioning greenhouse gas emissions (GHG-D-01).				
GHG-WL-01	Whole lifecycle greenhouse gas emissions	X	X	X	X	X	X	Project Whole Lifecycle	This impact considers the net effect of the greenhouse gas emissions released across all project phases and avoided as a result of the Project's operations and is comprised of the other emission sources considered in the assessment.	N/A	Scoped In	Impact assessed in the PEIR	Global atmosphere	High	N/A Impact magnitude is not specified as part of the topic-specific assessment methodology.	Beneficial (Significant)	Beneficial (Significant)
Climate Change Resilience Assessment																	
CCR-C-04	Climate change impacts from marine climate hazards during construction	X	X	X				Construction	Climate hazards considered: • Increased frequency and severity of heatwaves • Increase in average temperatures • Increase in storm intensity (wind speed) • Increase in frequency of storm conditions • Increase in extreme wave height • Change in storm patterns, e.g. wind direction • Increased frequency and / or severity of all types of extreme weather event, including heatwaves, storms and wave heights	Embedded Mitigation: CO7 CO93 CO94 CO96	Scoped In	Impact assessed in the PEIR	Offshore human, infrastructure and environmental receptors	Not Significant  4 potential climate change impacts identified. All climate change impacts concluded as not likely to result in significant effects on the Project with the implementation of embedded mitigation measures.			
CCR-C-05	Climate change impacts from land-based climate hazards during construction			X	X	X	X	Construction	Climate hazards considered: • Increased frequency and severity of heatwaves • Increase in average temperatures • Combined change in environmental conditions, e.g. dry spells and increase in temperatures can increase dust creation risks • Increase in extreme river flows and levels (fluvial flooding) • Increase in extreme surface water flows and levels (pluvial flooding) • Increase in frequency and intensity of extreme precipitation events • Increase in storm intensity (wind speed) • Increase in frequency of storm conditions • Change in storm patterns, e.g. wind direction • Increased frequency and severity of drought conditions • Increased frequency and / or severity of all types of extreme weather event, including flooding, heatwaves and storms	Embedded Mitigation: CO43 CO45 CO93 CO94 CO96 CO108	Scoped In	Impact assessed in the PEIR	Onshore human, infrastructure and environmental receptors	Not Significant  12 potential climate change impacts identified. All climate change impacts concluded as not likely to result in significant effects on the Project with the implementation of embedded mitigation measures.			
CCR-O-04	Climate change impacts from marine climate hazards during operation	X	X	X				Operation and Maintenance	Climate hazards considered: • Change in various environmental conditions, e.g. increase in average sea surface temperatures, salinity, strong waves and sea level rise can increase water damage and corrosion risks • Increased frequency and severity of heatwaves • Increase in average temperatures • Change in frequency of ice conditions • Increase in frequency and intensity of extreme precipitation events • Increase in storm intensity (wind speed) • Increase in frequency of storm conditions • Change in storm patterns, e.g. wind direction • Increase in extreme wave height • Increased tidal range • Increase in extreme wave height • Increased frequency and / or severity of all types of extreme weather event or climate hazard, including heatwaves, storms, wave height, precipitation, lightning, tidal range, coastal erosion and changes in marine environmental conditions	Embedded Mitigation: CO7 CO95 CO96 CO97	Scoped In	Impact assessed in the PEIR	Offshore human, infrastructure and environmental receptors	Not Significant  8 potential climate change impacts identified. All climate change impacts concluded as not likely to result in significant effects on the Project with the implementation of embedded mitigation measures.			
CCR-O-05	Climate change impacts from land-based climate hazards during operation			X	X	X	X	Operation and Maintenance	Climate hazards considered: • Combined change in environmental conditions, e.g. dry spells and increase in temperatures increasing subsidence risks • Increased frequency and severity of heatwaves • Increase in average temperatures • Combined change in environmental conditions, e.g. dry spells and increase in temperatures can increase wildfire risks • Increase in extreme river flows and levels (fluvial flooding) • Increase in extreme surface water flows and levels (pluvial flooding) • Increase in frequency and intensity of extreme precipitation events • Increase in storm intensity (wind speed) • Increase in frequency of storm conditions • Change in storm patterns, e.g. wind direction • Change in the frequency of lightning events • Increased frequency and severity of drought conditions • Tidal flooding • Increased tidal range • Increased coastal erosion • Combined change in environmental conditions, e.g. dry spells and increase in temperatures can affect vegetation health • Increased frequency and / or severity of all types of extreme weather event or climate hazard, including flooding, heatwaves, drought, storms, precipitation, lightning and coastal erosion	Embedded Mitigation: CO44 CO59 CO79 CO95 CO96 CO97	Scoped In	Impact assessed in the PEIR	Onshore human, infrastructure and environmental receptors	Not Significant  18 potential climate change impacts identified. All climate change impacts concluded as not likely to result in significant effects on the Project with the implementation of embedded mitigation measures.			

Impact Details										Commitments	Scoping	Preliminary Environmental Information Report (PEIR)					
Impact ID	Impact	Project Element						Project Phase	Project Activity		Project's Position at Scoping	Project's Position at PEIR	Receptor	Receptor Sensitivity / Value	Impact Magnitude	Effect Significance	Residual Effect Significance
		Array Area	Offshore Export Cable Corridor	Landfall	Onshore Export Cable Corridor	Onshore Converter Station	Energy Storage and Balancing Infrastructure										
CCR-D-04	Climate change impacts from marine climate hazards during decommissioning	X	X	X				Decommissioning	Climate hazards considered: •Increased frequency and severity of heatwaves •Increase in average temperatures •Increase in storm intensity (wind speed) •Increase in frequency of storm conditions •Increase in extreme wave height •Change in storm patterns, e.g. wind direction •Increased frequency and / or severity of all types of extreme weather event, including heatwaves, storms and wave heights	<b>Embedded Mitigation:</b> CO7 CO95	Scoped In	Impact assessed in the PEIR	Offshore human, infrastructure and environmental receptors	Not Significant  4 potential climate change impacts identified. All climate change impacts concluded as not likely to result in significant effects on the Project with the implementation of embedded mitigation measures.			
CCR-D-05	Climate change impacts from land-based climate hazards during decommissioning			X	X	X	X	Decommissioning	Climate hazards considered: •Combined change in environmental conditions, e.g. dry spells and increase in temperatures can increase dust creation risks •Combined change in environmental conditions, e.g. dry spells and increase in temperatures can increase wildfire risks •Increased frequency and severity of heatwaves •Increase in average temperatures •Increase in extreme river flows and levels (fluvial flooding) •Increase in extreme surface water flows and levels (pluvial flooding) •Increase in frequency and intensity of extreme precipitation events •Increase in storm intensity (wind speed) •Increase in frequency of storm conditions •Change in storm patterns, e.g. wind direction •Increased frequency and severity of drought conditions •Increased frequency and / or severity of all types of extreme weather event, including flooding, heatwaves and storms	<b>Embedded Mitigation:</b> CO95	Scoped In	Impact assessed in the PEIR	Onshore human, infrastructure and environmental receptors	Not Significant  13 potential climate change impacts identified. All climate change impacts concluded as not likely to result in significant effects on the Project with the implementation of embedded mitigation measures.			