

DOGGER BANK D WIND FARM

Preliminary Environmental Information Report

Volume 2

Appendix 6.4 Cumulative Effects Screening Report -
Offshore

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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>
Design	All of the decisions that shape a development throughout its design and pre-construction, construction / commissioning, operation and, where relevant, decommissioning phases.
Development Consent Order (DCO)	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.
Effect	An effect is the consequence of an impact when considered in combination with the receptor's sensitivity / value / importance, defined in terms of significance.
Environmental Impact Assessment (EIA)	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.
Environmental Statement (ES)	A document reporting the findings of the EIA which describes the measures proposed to mitigate any likely significant effects.
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	A change resulting from an activity associated with the Project, defined in terms of magnitude.
Mitigation	<p>Any action or process designed to avoid, prevent, reduce or, if possible, offset potentially significant adverse effects of a development.</p> <p>All mitigation measures adopted by the Project are provided in the Commitments Register.</p>

Offshore Development Area	The area in which all onshore infrastructure associated with the Project will be located, including any temporary works area required during construction and permanent land required for mitigation and enhancement areas, which extends landward of Mean Low Water Springs. There is an overlap with the Offshore Development Area in the intertidal zone.
Project Design Envelope	<p>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.</p> <p>The Project Design Envelope incorporates flexibility and addresses uncertainty in the DCO application and will be further refined during the EIA process.</p>
Scoping Opinion	<p>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.</p> <p>The Scoping Opinion for the Project was adopted by the Secretary of State on 02 August 2024.</p>
Scoping Report	<p>A request by the Applicant made to the Planning Inspectorate for a Scoping Opinion on behalf of the Secretary of State.</p> <p>The Scoping Report for the Project was submitted to the Secretary of State on 24 June 2024.</p>
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'
The Project	Dogger Bank D Offshore Wind Farm Project, also referred to as DBD in this PEIR.

6.4 Cumulative Effects Screening Report – Offshore

6.4.1 Introduction

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) provides details on the cumulative effects assessment (CEA) for the offshore elements of the Project and supports **Volume 1, Chapter 6 Environmental Impact Assessment Methodology**. The offshore elements of the Project will include any infrastructure situated below Mean High Water Springs (MHWS) within the intertidal zone, the offshore export cable corridor (ECC) and the DBD Array Area, i.e. the 'Offshore Development Area'. A full description of the Project is provided in **Volume 1, Chapter 4 Project Description**. Cumulative effects associated with the onshore elements are considered separately within **Appendix 6.5 Cumulative Effects Screening Report – Onshore**.
2. The CEA requires the identification of other plans and projects which may have the potential to interact with the Project during the construction, operation, and decommissioning phases. The purpose of this appendix is to provide further detail on the CEA methodology adopted by the Project (as outlined in **Volume 1, Chapter 6 Environmental Impact Assessment Methodology**) and to provide the longlist of other plans and projects considered within the offshore CEA (see **Annex 6.4.1**).
3. The approach to the offshore CEA is based on the Planning Inspectorate's guidance 'Nationally Significant Infrastructure Projects: Advice on Cumulative Effects Assessment' (2024a) and is specific to the Project. It considers the information available on other plans and projects, at the time of writing, in relation to the Project's known activities. This appendix will be updated post-PEIR for the Development Consent Order (DCO) application submission based on refinements to the Project's Offshore Development Area boundaries and to incorporate further information on other plans and projects.
4. This appendix sets out the approach to CEA adopted in the offshore technical chapters (**Volume 1, Chapter 8 Marine Physical Processes** to **Volume 1, Chapter 18 Other Marine Users**). As the project-wide technical chapters (**Volume 1, Chapter 29 Human Health** to **Volume 1, Chapter 31 Climate Change**) considers both the offshore and onshore elements of the Project, the CEA approach adopted in these chapters are based on a combination of the approaches set out in this offshore CEA appendix and **Appendix 6.5 Cumulative Effects Screening Report – Onshore**.

6.4.3 Policy and Legislative Context

5. The Project is defined as a Nationally Significant Infrastructure Project (NSIP) under Section 15(3) of the Planning Act 2008 as the Project contains an offshore generating station with an expected capacity greater than 100MW. As required by Section 31 of the Planning Act 2008, a DCO application will be submitted. The Infrastructure Planning (Environmental Impact Assessment) Regulations 2017 (as amended) the EIA Regulations) transposed the requirements of the EIA Directive (2014/52/EU) into UK law with regard to DCO applications.
6. Planning policy on energy for Nationally Significant Infrastructure Projects is set out in the National Policy Statements (NPS) which are relevant to the CEA:
 - Overarching NPS for Energy (EN-1) (Department for Energy Security and Net Zero (DESNZ), 2023a);
 - NPS for Renewable Energy Infrastructure (EN-3) (DESNZ, 2023b); and
 - NPS for Electricity Networks Infrastructure (EN-5) (DESNZ, 2023c).
7. EN-1 states in Paragraph 4.2.12 that the Applicant's assessment should consider "*the cumulative impacts of multiple developments with residual impacts*" and notes in Paragraph 4.3.3 that the requirements of the EIA Regulations to assess "*the likely significant effects of the proposed project on the environment, covering the direct effects and any indirect, secondary, cumulative, transboundary, short, medium and long-term, permanent and temporary, positive and negative effects at all stages of the Project*". The need for the consideration of cumulative effects is echoed in EN-3 which, in Paragraph 3.8.85 states that "*assessment of environmental effects of cabling infrastructure and any proposed offshore or onshore substations should assess effects both alone and cumulatively with other existing and proposed infrastructure*".
8. In addition, both EN-1 and EN-3 highlight the need to assess the worst-case potential effects for example, Paragraph 4.3.12 of EN-1 notes that "*Where some details are still to be finalised, the ES should, to the best of the applicant's knowledge, assess the likely worst-case environmental, social and economic effects of the proposed development to ensure that the impacts of the project as it may be constructed have been properly assessed*".
9. The Project Design Envelope considers the Project's maximum and, where relevant, minimum design parameters for each infrastructure component and the likely construction, operation and maintenance and decommissioning activities. This approach provides flexibility to the design of the Project, with guidance from the Planning Inspectorate provided in Nationally Significant Infrastructure Projects – Advice Note Nine: Rochdale Envelope (Planning Inspectorate, 2018). Further details on the Project Design Envelope are provided in **Volume 1, Chapter 4 Project Description** and **Volume 1 Chapter 6 Environmental Impact Assessment Methodology**.

10. The guidance published by the Planning Inspectorate ‘Nationally Significant Infrastructure Projects: Advice on Cumulative Effects Assessment’ (Planning Inspectorate, 2024a) provides advice on the CEA and is intended to complement the Planning Act and further advice published by the Planning Inspectorate (Planning Inspectorate 2024b). The advice provides details on a four-stage approach to the CEA for Nationally Significant Infrastructure Projects. This suggested process has been followed for the offshore CEA for the Project and an overview is provided in **Section 6.4.5**.
11. Further guidance has been produced by Natural England relating to the offshore wind marine environment, which focusses on other DCO projects rather than projects consented via other regimes such as the Marine and Coastal Access Act 2009. This guidance has been considered in the offshore CEA where relevant, with a summary noted in **Volume 1, Chapter 6 Environmental Impact Assessment Methodology** and further details in **Section 6.4.6.1** below.

6.4.4 Consultation

12. Consultation on the CEA methodology has been undertaken as part of the Evidence Plan Process (EPP) through relevant topic-specific Expert Topic Group (ETG) meetings with various statutory and non-statutory stakeholders. Further details on the consultation process are provided in **Volume 1, Chapter 7 Consultation**. Comments were also received with regards to the CEA in the Scoping Opinion (Planning Inspectorate, 2024c). A summary of responses to stakeholder comments regarding the CEA is provided in **Appendix 6.1, Consultation Responses for Environmental Impact Assessment Methodology**.
13. The approach to the CEA was discussed with Natural England, MMO and Cefas at the second marine mammal meeting (ETG2) where it was agreed to a six month cut off for scoping in projects. Further, the projects to be scoped in for assessment of cumulative operational noise as presented in the Marine Mammal Method Statement that was circulated for ETG3 Meeting 1.
14. The approach to CEA for offshore ornithology and the projects to be scoped in were discussed in the first meeting of ETG2. This included the bird numbers for gannet, guillemot, razorbill, puffin, kittiwake, greater black-backed gull, lesser black-backed gull, and herring gull.

6.4.5 Approach to Cumulative Effects Assessment

- 15. Cumulative effects are the result of the impacts of the Project acting in combination with the impacts of other existing, proposed and reasonably foreseeable plans and projects on receptors. This includes other plans and projects that are not inherently considered as part of the baseline environment.
- 16. Other plans and projects that were fully operational during baseline characterisation, including at the time of site-specific surveys, are considered as part of baseline conditions for the surrounding environment and are excluded from the CEA screening. It is assumed that any residual effects associated with these plans or projects are captured in the baseline information.
- 17. Plans or projects that were not fully operational, including those in planning / pre-construction stages or under construction, during baseline characterisation and operational projects with potential for ongoing impacts, are included in the screening exercise.
- 18. The guidance from the Planning Inspectorate on the CEA follows a suggested four-stage process to ensure that the CEA follows the relevant policy, legislation and guidance (Planning Inspectorate, 2024a). The Planning Inspectorate’s guidance notes that the CEA stages are sequential but highlights the need for iterative assessments that are repeated during the preparation of the Environmental Statement (ES) as additional plans or projects are newly identified or further information on other plans or projects become available. The four-stage process is summarised in **Table 6.4-1**.

Table 6.4-1 Cumulative Effects Assessment Stages and Descriptions

CEA Stage	Activity
Stage 1: Establishing the longlist	<p>Stage 1 aims to establish the existing and approved projects to be considered in the assessment.</p> <p>A desk study was undertaken to define a zone of influence (Zol) for each technical topic (see Table 6.4-2) which represents the spatial extent from the Project in which there is potential for cumulative effects with another plan or project . The Zol was then used to compile the longlist of plans and projects through consideration of planning applications, development plans and other relevant sources, such as the Evidence Plan Process or other relevant consultation.</p> <p>The longlist for the maximum offshore Zol (the North Sea) is shown in Annex 6.4.1. Each offshore technical chapter (Volume 1, Chapter 8 Marine Physical Processes to Chapter 18 Other Marine Users), and where relevant each project-wide technical chapter (Volume 1, Chapter 29 Human Health to Chapter 31 Climate Change) includes a list of plans and projects which falls within the Zol for that topic.</p>

	<p>For each plan or project in the longlist, the Planning Inspectorate suggests the use of a tiered system to assign a level of certainty based on information availability to enable a CEA to be undertaken. However, within the offshore environment, this tiering system is further refined with a seven-tier approach as recommended in the Phase III Best Practice by Natural England and DEFRA Guidance (Parker <i>et al.</i>, 2022).</p> <p>Further details on the tier system are provided in Section 6.4.6.1.</p>
Stage 2: Establishing the shortlist	<p>Stage 2 requires the application of threshold criteria to the longlist to establish a shortlist of plans and projects to be included in the CEA.</p> <p>The threshold criteria were applied on a topic-by-topic basis to include or exclude plans and projects within the topic-specific Zol, ensuring that the CEA undertaken is proportionate.</p> <p>The guidance notes the potential use of professional judgement alongside the criteria when screening a plan or project from the shortlist. Justification for inclusion and exclusion is also provided as part of the shortlist screening exercise.</p> <p>The guidance also notes the need for consultation with relevant bodies to ensure the accuracy of the shortlist.</p> <p>Stage 2 is presented within each offshore and project-wide technical chapter which confirms which projects are included in the shortlist for that topic. This is the result of screening using the threshold criteria and professional judgement with the final shortlist being taken forward to Steps 3 and 4 of the CEA and provided in each chapter.</p>
Stage 3: Information gathering	<p>Stage 3 requires further gathering of detailed information on plans and projects in the shortlist to support the Stage 4 assessment. Information gathering should consider information available from different sources such as the Planning Inspectorate, MMO and direct liaison with stakeholders and other developers.</p> <p>Within the offshore and project-wide technical chapters, Stage 3 is not reported separately from the Stage 4 assessment. Where relevant information on another plan or project has been sourced to support the CEA, this is reported as part as of the Stage 4 assessment.</p>
Stage 4: Assessment	<p>Stage 4 requires the assessment of the cumulative effects between the Project and other plans and projects within the shortlist. The assessment should be undertaken at a level of detail proportionate to the information available.</p> <p>The Stage 4 assessment is presented in each offshore and project-wide technical chapters (Volume 1, Chapter 8 Marine Physical Processes to Chapter 18 Other Marine Users and Volume 1, Chapter 29 Human Health to Chapter 31 Climate Change).</p>

19. The following sections sets out how the Project has approached Stages 1 to 4, including development of the longlist and tiering of other plans and projects. The topic-specific shortlists are provided in each of the offshore and project-wide technical chapters within the PEIR (**Volume 1, Chapter 8 Marine Physical Processes** to **Chapter 18 Other Marine Users** and **Volume 1, Chapter 29 Human Health** to **Chapter 31 Climate Change**) as part of the assessment of cumulative effects section.

6.4.6 Stage 1: Establishing the Longlist

6.4.6.1 Approach to the Longlist

20. Stage 1 of the CEA involved the establishment of a longlist of relevant plans and projects which fall within the Zol from the Offshore Development Area. These plans and projects are considered to have potential for cumulative effects and require further consideration in the CEA. The Zol has been defined on a topic-by-topic basis as shown below in **Table 6.4-2**.

Table 6.4-2 Topic-Specific Zones of Influence Applied to the Longlist

EIA topic	Zone of Influence
Marine Physical Processes	<p>A Zol is defined for each potential marine physical processes effect for the CEA. These are:</p> <ul style="list-style-type: none"> • ‘Zone of Influence tide’ for changes in tidal currents (and changes in suspended sediment concentration) defined by the outputs of the hydrodynamic modelling supported by tidal ellipse data; • ‘Zone of Influence wave’ for changes in wave regime defined by the outputs of wave modelling; and • ‘Zone of Influence coast’ for changes in sediment transport at the coast. The offshore ZOI is determined by the closure depth, the onshore ZOI by coastal erosion / shoreline retreat and the longshore ZOI on sediment sources, sinks, availability, transport rates and the tidal ellipse.
Marine Water and Sediment Quality	A Zol is defined by the modelling results from Appendix 8.3 Marine Physical Processes Modelling Report .
Benthic and Intertidal Ecology	A Zol of 28km from the Offshore Development Area is used as it encompasses two tidal ellipses, to encompass one tidal ellipse from the Project plus an extra tidal ellipse from the nearby project in relation to the Study Area.
Fish and Shellfish Ecology	The Zol includes International Council for the Exploration of the Sea (ICES) rectangles that overlap with the DBD Array Area and proposed offshore export cable corridor (offshore ECC).

Offshore and Intertidal Ornithology	The Zol incorporates any project within the same biologically defined minimum population scales as outlined for each species.
Commercial Fisheries	The Zol takes in plans or projects within the central or southern North Sea (ICES Divisions 4b and 4c).
Shipping and Navigation	A Zol of 50nm from the DBD Array Area is used.
Aviation, Radar and Military	A Zol of 40km from the DBD Array Area including a 1km construction buffer zone.
Offshore Archaeology and Cultural Heritage	The Zol is based on plans and projects located within the Offshore Development Area, or that are considered close enough to potentially have a cumulative impact.
Other Marine Users	A Zol of 7.5km from the Offshore Development Area.
Human Health	Zol is not defined as a distance from the Offshore Development Area. Zol is based on plans and projects located within the same Study Area for each health determinant.
Socio-Economics, Tourism and Recreation	Zol is not defined as a distance from the Offshore Development Area. Zol is based on plans and projects within the same Study Area for each socio-economics or tourism and recreation impact.
Climate Change	No CEA undertaken for climate change due to topic-specific methodology.

21. It should be noted that due to the nature of the marine mammals assessment, **Volume 1, Chapter 12 Marine Mammals** adopts a different approach to CEA which is outlined within the appendix (**Appendix 12.5 Marine Mammals Cumulative Assessment**) and is therefore not included in **Table 6.4-2**.
22. The largest Zol noted in **Table 6.4-2** is associated with offshore ornithology (the North Sea), therefore, this has been used to identify the full longlist of projects as shown in **Annex 6.4.1**.
23. The longlist for the offshore CEA considered in the PEIR has been developed from a range of sources which include plans and projects identified five years prior to and including 31st December 2024. The following sources have been used for the desk-based study to define the offshore CEA longlist:
 - Marine Management Organisation Public Register (https://marinelicensing.marinemangement.org.uk/mmofox5/fox/live/MO_PUBLIC_REGISTER/);
 - MD-LOT Marine Licence Applications Portal (<https://marine.gov.scot/marine-licence-applications>);

- Planning Inspectorate, National Infrastructure Planning Portal (<https://infrastructure.planninginspectorate.gov.uk/>);
 - East Riding of Yorkshire Council planning website (<https://www.eastriding.gov.uk/planning-permission-and-building-control/>);
 - Hull City Council Planning Portal planning website (<https://www.hull.gov.uk/planning-applications/planning-applications-1>);
 - 4C Offshore website (<https://map.4coffshore.com/offshorewind/>);
 - UK Offshore Wind Report 2023 (<https://www.thecrownestate.co.uk/our-business/marine/offshore-wind-report-2023>);
 - Offshore wind farm project websites;
 - The Crown Estate Aggregates Portal (<https://opendata-thecrownestate.opendata.arcgis.com/datasets/685a9d9c2ae84870b07047311b7dec56/explore?location=52.845131%2C1.251669%2C8.00>);
 - North Sea Transition Authority UKCS Lease Agreements (<https://www.arcgis.com/apps/webappviewer/index.html?id=cb3474a78df24139b1651908ff8c8975>);
 - Cefas UK Disposal Sites (<https://data.cefas.co.uk/view/407>);
 - KIS-ORCA Infrastructure Map (<https://kis-orca.org/map/>);
 - North Sea Transition Authority Offshore Activity Map (<https://www.arcgis.com/apps/webappviewer/index.html?id=f4b1ea5802944a55aa4a9df0184205a5>);
 - UK Government EIA Submissions and Decisions (<https://www.gov.uk/search/all?keywords=EIA+Submissions+and+Decisions&order=relevance>);
 - UKHO Military Practice Areas (<https://www.admiralty.co.uk/defence/additional-military-layers>); and
 - SCCS Global CCS Map (<https://www.sccs.org.uk/resources/global-ccs-map>)
24. The offshore CEA considered projects within the intertidal zone and seaward of MHWS, with projects landward of Mean Low Water Springs (MLWS) are considered in **Appendix 6.5 Cumulative Effects Screening Report – Onshore**.
25. The longlist found in **Annex 6.4.1** provides details on the other plans and projects identified, including the name, type of development, reference number (if applicable), development status, tier, temporal scope and location. The nature and scale of plans and projects have been considered when establishing the longlist based on the criteria presented in **Table 6.4-3** within the maximum definable Zol for the North Sea.

Table 6.4-3 Criteria on the Nature and Scale of Plans and Projects for Longlist Inclusion / Exclusion

Type of Plan / Project	Longlisting Criteria
Offshore Wind Farms	Any planned, consented, built, or soon to be decommissioned offshore wind infrastructure within the North Sea.
Wave and Tidal	Any planned, consented, built, or soon to be decommissioned wave and tidal infrastructure within the North Sea.
Marine Aggregate Sites	Any planned, licenced, operational and soon to be disused marine aggregate sites within the North Sea.
Disposal Sites	Any planned, licenced, operational and soon to be disused disposal sites within the North Sea.
Oil and Gas Infrastructure	Any planned, consented, built, or soon to be decommissioned oil and gas infrastructure within the North Sea.
Military, Aviation and Radar Infrastructure	Any planned, consented or built military, aviation and radar infrastructure within the East Riding of Yorkshire or the North Sea.
Carbon Capture and Storage (CCS) Sites	Any planned, consented, built, or soon to be decommissioned CCS sites within the North Sea.
Local Planning Projects	Any planned, consented, built, or soon to be decommissioned local development infrastructure within proximity to the intertidal and coastal zone.

6.4.6.2 Tiered Approach

- 26. During the longlisting stage, the availability of information related to other plans and projects was taken into consideration. The ability to undertake the CEA and degree of confidence depends on the information available on the other plan or project being assessed. A seven-tier system as proposed by Natural England (Parker *et al.*, 2022) has been adopted to assign the level of certainty / uncertainty regarding the assessment of potential impacts of a plan or project which may act cumulatively with the Project.
- 27. All plans and projects in the longlist have therefore been allocated a tier, with Tier 1 being most certain and Tier 7 being least certain. Appropriate weight was applied to each plan or project in the CEA based on the tier such that plans and projects with greater certainty are assessed in greater detail to ensure proportionality.
- 28. Through the tiered system, appropriate weight may be given to each scenario (tier) in the decision-making process when considering the potential cumulative impacts associated with the Project. For example, a greater weight may be attributed to tier 1 than tier 2 based on the certainty of information at that time.
- 29. The criteria for the tiered system is presented in **Table 6.4-4**. It is noted in the Planning Inspectorate Advice Note that plans and projects which are expected to be completed before the construction of the Project, and where the effects are fully determined (i.e. the residual effects of these plans and projects would have been captured during baseline surveys), should be considered as part of the baseline environment and can be considered within the construction and operational assessments (Planning Inspectorate, 2024a). Where the effects of these plans and projects are not yet fully determined (i.e. the outcomes of proposed mitigation measures are being monitored and the residual effects are not yet known), it may be appropriate to consider these within the CEA on a precautionary basis.
- 30. The tiering allocated to each of the longlist plan or project is indicated in **Annex 6.4.1** of this appendix.

Table 6.4-4 Description of Tiers of Other Developments Considered for CEA (Parker *et al.*, 2022)

Tiers	Criteria for Tier
Tier 1	Built and operational schemes should be included within the cumulative assessment where they have not been included within the environmental characterisation survey, i.e. they were not operational when baseline surveys were undertaken, and / or any residual impact may not have yet fed through to and been captured in estimates of “baseline” conditions, such as “background” distribution or mortality rate for birds.*

Tiers	Criteria for Tier
Tier 2	Tier 1 plus schemes under construction.
Tier 3	Tier 2 plus schemes that have been consented (but construction has not yet commenced).
Tier 4	Tier 3 plus schemes that have an application submitted to the appropriate regulatory body that have not yet been determined.
Tier 5	Tier 4 plus schemes that produced a PEIR and have characterisation data within the public domain.
Tier 6	Tier 5 plus schemes that the regulatory body are expecting an application to be submitted for determination (e.g. projects listed under the Planning Inspectorate's programme of projects).
Tier 7	Tier 6 plus schemes that have been identified in relevant strategic plans or programmes.

**Or if there are ongoing impacts that are greater than predicted where there is no evidence that the impacts will dissipate over the lifetime of the Project, e.g. displacement.*

31. The tiering allocated to each of the long list schemes is indicated as part of the long list presented in **Annex 6.4.1**.

6.4.7 Stage 2: Establishing the Shortlist

32. To develop the shortlist, the established longlist has been screened further on a topic-by-topic basis using the inclusion / exclusion threshold criteria described in **Table 6.4-5**.
33. The shortlisting exercise considers whether a plan or project has potential to give rise to significant cumulative effects with the Project in regard to a specific impact or receptor. Therefore, to ensure proportionality, only plans and projects with potential for significant cumulative effects are screened in for further consideration in the CEA. Plans and projects considered to have no potential for significant cumulative effects are screened out, and the absence of likely significant cumulative effects are concluded at this stage.
34. The shortlist of plans and projects are presented within each offshore and project-wide technical chapter (**Volume 1, Chapter 8 Marine Physical Processes** to **Chapter 18 Other Marine Users** and **Volume 1, Chapter 29 Human Health** to **Chapter 31 Climate Change**). As the shortlist is topic-specific, a plan or project that is screened out for one topic may be screened in for another topic.

Table 6.4-5 Threshold Criteria for Shortlist Inclusion / Exclusion

Plans and Projects Screened Into the Shortlist	Plans and Projects Screened Out of the Shortlist
<ul style="list-style-type: none"> • The plan or project is operational but has ongoing effects; • The plan or project is under construction / will complete construction prior to the Project's construction but its effects are not yet fully determined / realised; • The proposed plan or project is likely to come forward and all the following circumstances are met: <ul style="list-style-type: none"> ○ There is potential that a pathway exists whereby an impact from the Project and another plan project could have a cumulative effect on the same receptor; ○ The impact on a receptor from the Project and another plan or project has a spatial overlap (i.e. occurring in the same area); ○ The impact on a receptor from the Project and another plan or project has a temporal overlap (i.e. occurring at the same time); ○ There is sufficient and relevant information available on the plan or project with moderate to high data confidence to undertake a meaningful assessment; and ○ There is some likelihood that the residual effect (i.e., after accounting for mitigation measures) of the Project could result in significant cumulative effects with the plan or project in consideration. 	<ul style="list-style-type: none"> • The plan or project is operational but has no potential for ongoing effects; • The plan or project is under construction / will complete construction prior to the Project's construction and its effects are fully determined / realised; • The proposed plan or project may come forward but: <ul style="list-style-type: none"> ○ There is no potential that a pathway exists whereby an impact from the Project and another plan project could have a cumulative effect on the same receptor; ○ The impact on a receptor from the Project and another plan or project has no spatial overlap (i.e. occurring in distant areas); ○ The impact on a receptor from the Project and another plan or project has no temporal overlap (i.e. occurring on different timescales); ○ There is insufficient information available on the plan or project or there is low data confidence to undertake a meaningful assessment; or ○ There is no likelihood that the residual effect (i.e., after accounting for mitigation measures) of the Project could result in significant cumulative effects with the plan or project in consideration.

6.4.8 Stage 3: Information Gathering

35. Following the establishment of the topic-specific shortlists, further information has been gathered on plans and projects considered in the shortlists detailed in the technical chapters which has then been used to inform the Stage 4 Assessment.
36. The Planning Inspectorate's Advice Note on the Cumulative Effects Assessment states the following (Planning Inspectorate, 2024a):

"The information should include but not be limited to:

- *Proposed design and location information;*
- *Proposed programme of construction, operation and decommissioning; and*
- *Environmental assessments that set out baseline data and effects arising from the other existing and, or approved developments".*

6.4.9 Stage 4: Assessment

37. Information on shortlisted projects has been gathered and reviewed for each topic and the cumulative effects have been assessed based on the information gathered. The assessments account for data availability and have undertaken an assessment of proportionate detail, with consideration for limitations and gaps in the information.
38. The Planning Inspectorate's Advice Note highlights the need for proportionality when assessing cumulative effects, in particular with regard to potential cumulative effects resulting from multiple individually non-significant effects. Therefore, within the assessments, only impacts from the Project determined to have a residual effect of negligible or greater have been included in the CEA. Those assessed as 'no change' or impacts that have been scoped out of assessment based on the absence of likely significant effect were excluded from the CEA, as there is no potential for them to contribute to a cumulative effect.
39. The assessment presented in the offshore and project-wide technical chapters (**Volume 1, Chapter 8 Marine Physical Processes to Chapter 18 Other Marine Users** and **Volume 1, Chapter 29 Human Health to Chapter 31 Climate Change**) identifies the cumulative impact and the shortlisted plan(s) / project(s) that are considered to interact cumulatively with the Project. It outlines the, receptor sensitivity, cumulative impact magnitude, cumulative effect significance for each cumulative impact, and where required, additional mitigation measures and the residual cumulative effect significance.

40. The CEA detailed at PEIR stage is considered to be conservative as further information regarding the shortlisted plans and projects may become available between PEIR publication and DCO application submission. The CEA at the ES stage will include an updated longlist and topic-specific shortlists which will consider new plans and projects identified after the cut-off date for PEIR as noted in **Section 6.4.6.1**. Cut-off dates for updating plans and projects considered in the CEA are six months prior to the publication of PEIR, and six months prior to DCO application submission. At ES stage, information availability on the shortlisted plans and projects will also be reviewed to allow additional information to be considered in the Stage 4 assessments in the relevant technical chapters.

References

Parker *et al.* (2022). Phase III Best Practice by Natural England and DEFRA Guidance. Available at: [Offshore wind – best practice advice to facilitate sustainable development – Natural England](#) [Accessed: 06 November 2024]

Planning Inspectorate (2018). Nationally Significant Infrastructure Projects - Advice Note Nine: Rochdale Envelope. Available at: <https://www.gov.uk/government/publications/nationally-significant-infrastructure-projects-advice-note-nine-rochdale-envelope/nationally-significant-infrastructure-projects-advice-note-nine-rochdale-envelope> [Accessed: 3 October 2024]

Planning Inspectorate (2024a). Nationally Significant Infrastructure Projects: Advice on Cumulative Effects Assessment. Available at: <https://www.gov.uk/guidance/nationally-significant-infrastructure-projects-advice-on-cumulative-effects-assessment> [Accessed: 17 October 2024]

Planning Inspectorate (2024b). Nationally Significant Infrastructure Projects: Advice pages. Available at: <https://www.gov.uk/government/collections/national-infrastructure-planning-advice-notes> [Accessed: 17 October 2024]

Planning Inspectorate (2024c). Scoping Opinion: Proposed Dogger Bank D Wind Farm. Available at: <https://media.doggerbankd.com/content/documents/DoggerBankD2024ScopingOpinion.pdf> [Accessed: 17 October 2024]

Department for Energy Security & Net Zero (DESNZ) (2023a). Overarching National Policy Statement for Energy (EN-1). Available at: <https://assets.publishing.service.gov.uk/media/65bbfbd709fe1000f637052/overarching-nps-for-energy-en1.pdf> [Accessed: 17 October 2024]

DESNZ (2023b). National Policy Statement for Renewable Energy Infrastructure (EN-3). Available at: https://assets.publishing.service.gov.uk/media/64252f5f2fa848000cec0f52/NPS_EN-3.pdf [Accessed: 17 October 2024]

DESNZ (2023c). National Policy Statement for Electricity Networks Infrastructure (EN-5). Available at: https://assets.publishing.service.gov.uk/media/64252f852fa848000cec0f53/NPS_EN-5.pdf [Accessed: 17 October 2024]

Acronyms

Acronym	Definition
CEA	Cumulative Effects Assessment
DBD	Dogger Bank D
DESNZ	Department for Energy Security and Net Zero
DCO	Development Consent Order
ECC	Export Cable Corridor
EIA	Environmental Impact Assessment
EPP	Evidence Plan Process
ES	Environmental Statement
EPP	Expert Topic Group
MHWS	Mean High Water Springs
MLWS	Mean Low Water Springs
NSIP	Nationally Significant Infrastructure Project
PEIR	Preliminary Environmental Information Report
Zol	Zone of Influence

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Annex 6.4.1 Offshore Cumulative Effects Assessment Long List of Plans and Projects

Topic-Specific Shortlisting

	Screened into shortlist
	Screened out of shortlist / Not applicable
	Unknown (to be determined at ES stage)

Construction / Operation Period(s)

* **Bold** = Plan / project with potential for temporal overlap of construction and / or operation period(s) with the Project's construction phase (2029 to 2033)

Data Confidence / Availability

High	Full project / plan details in the public domain with relevant information to the CEA.
Moderate	Some project / plan details in the public domain but not determined as final and accurate; or / and Full project / plan details in the public domain but limited information relevant to the CEA.
Low	No or limited project / plan details in the public domain.

APPENDIX 6.4 CUMULATIVE EFFECTS SCREENING REPORT - OFFSHORE

Project / Plan	Development Type	Status	Tier	Data Confidence / Availability	Closest Distance to DBD array Area (km)	Closest Distance to Offshore ECC (km)	Construction / Operation Period(s)*	Topic-Specific Shortlisting													
								Marine Physical Processes	Marine Water and Sediment Quality	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammals	Offshore and Intertidal Ornithology	Commercial Fisheries	Shipping and Navigation	Aviation, Radar and Military	Offshore Archaeology and Cultural Heritage	Other Marine Users	Human Health	Socio-Economics, Tourism and Recreation	Climate Change
Arven Offshore Wind Farm	Offshore Wind Farm	Planning	6	High	584	525	Construction: 2026 to 2030. Operation: 2031+														
Arven South Offshore Wind Farm	Offshore Wind Farm	Planning	6	High	587	528	Construction: 2026 to 2030. Operation: 2031+														

APPENDIX 6.4 CUMULATIVE EFFECTS SCREENING REPORT - OFFSHORE

Project / Plan	Development Type	Status	Tier	Data Confidence / Availability	Closest Distance to DBD array Area (km)	Closest Distance to Offshore ECC (km)	Construction / Operation Period(s)*	Topic-Specific Shortlisting													
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Ayre Offshore Wind Farm	Offshore Wind Farm	Planning	6	High	496	430	Construction: 2026 to 2029 Operation: 2030+														
Beatrice Offshore Wind Farm	Offshore Wind Farm	Operational	1	High	482.85	411.23	Operation: 2019+														

APPENDIX 6.4 CUMULATIVE EFFECTS SCREENING REPORT - OFFSHORE

Project / Plan	Development Type	Status	Tier	Data Confidence / Availability	Closest Distance to DBD array Area (km)	Closest Distance to Offshore ECC (km)	Construction / Operation Period(s)*	Topic-Specific Shortlisting													
								Marine Physical Processes	Marine Water and Sediment Quality	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammals	Offshore and Intertidal Ornithology	Commercial Fisheries	Shipping and Navigation	Aviation, Radar and Military	Offshore Archaeology and Cultural Heritage	Other Marine Users	Human Health	Socio-Economics, Tourism and Recreation	Climate Change
Beech Offshore Wind Farm	Offshore Wind Farm	Planning	6	Medium	298.31	241.86	Construction: Unknown Operation: Unknown														
Bellrock Offshore Wind Farm	Offshore Wind Farm	Planning	6	Medium	238.94	171.99	Construction 2026 to 2030 Operation: 2031+														

APPENDIX 6.4 CUMULATIVE EFFECTS SCREENING REPORT - OFFSHORE

Project / Plan	Development Type	Status	Tier	Data Confidence / Availability	Closest Distance to DBD array Area (km)	Closest Distance to Offshore ECC (km)	Construction / Operation Period(s)*	Topic-Specific Shortlisting													
								Marine Physical Processes	Marine Water and Sediment Quality	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammals	Offshore and Intertidal Ornithology	Commercial Fisheries	Shipping and Navigation	Aviation, Radar and Military	Offshore Archaeology and Cultural Heritage	Other Marine Users	Human Health	Socio-Economics, Tourism and Recreation	Climate Change
Berwick Bank Offshore Wind Farm (00010190)	Offshore Wind Farm	Pending consideration	4	Medium	188.96	272.36	Construction: 2025 to 2033 Operation: 2034+														
Blyth Demonstration Site Offshore Wind Farm	Offshore Wind Farm	Operational	1	High	258.86	145.05	Operation: 2017+														

APPENDIX 6.4 CUMULATIVE EFFECTS SCREENING REPORT - OFFSHORE

Project / Plan	Development Type	Status	Tier	Data Confidence / Availability	Closest Distance to DBD array Area (km)	Closest Distance to Offshore ECC (km)	Construction / Operation Period(s)*	Topic-Specific Shortlisting														
								Marine Physical Processes	Marine Water and Sediment Quality	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammals	Offshore and Intertidal Ornithology	Commercial Fisheries	Shipping and Navigation	Aviation, Radar and Military	Offshore Archaeology and Cultural Heritage	Other Marine Users	Human Health	Socio-Economics, Tourism and Recreation	Climate Change	
Blyth Demonstration Phase 2 Offshore Wind Farm	Offshore Wind Farm	Approved	1	High	251.61	144.01	Construction: Unknown Operation: Unknown															
Bowdun Offshore Wind Farm	Offshore Wind Farm	Planning	6	Me- dium	317.25	243.81	Construction 2029 – 2032 Operational from 2033+															

APPENDIX 6.4 CUMULATIVE EFFECTS SCREENING REPORT - OFFSHORE

Project / Plan	Development Type	Status	Tier	Data Confidence / Availability	Closest Distance to DBD array Area (km)	Closest Distance to Offshore ECC (km)	Construction / Operation Period(s)*	Topic-Specific Shortlisting													
								Marine Physical Processes	Marine Water and Sediment Quality	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammals	Offshore and Intertidal Ornithology	Commercial Fisheries	Shipping and Navigation	Aviation, Radar and Military	Offshore Archaeology and Cultural Heritage	Other Marine Users	Human Health	Socio-Economics, Tourism and Recreation	Climate Change
Broadshore Offshore Wind Farm	Offshore Wind Farm	Planning	6	Medium	429	361	Construction: 2027 to 2031. Operation: 2032+														
Buchan Offshore Wind Farm (00010207)	Offshore Wind Farm	Planning	6	Medium	360.05	289.41	Construction: 2028 to 2033 Operation: 2034+														

APPENDIX 6.4 CUMULATIVE EFFECTS SCREENING REPORT - OFFSHORE

Project / Plan	Development Type	Status	Tier	Data Confidence / Availability	Closest Distance to DBD array Area (km)	Closest Distance to Offshore ECC (km)	Construction / Operation Period(s)*	Topic-Specific Shortlisting													
								Marine Physical Processes	Marine Water and Sediment Quality	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammals	Offshore and Intertidal Ornithology	Commercial Fisheries	Shipping and Navigation	Aviation, Radar and Military	Offshore Archaeology and Cultural Heritage	Other Marine Users	Human Health	Socio-Economics, Tourism and Recreation	Climate Change
Caledonia (00011015)	Offshore Wind Farm	Pending Consideration	6	Medium	448	377	Construction: 2027 to 2031 Operation: 2032+														
Campion Wind Offshore Wind Farm	Offshore Wind Farm	Planning	6	High	263.26	198.93	Construction: Unknown Operation: Unknown														

APPENDIX 6.4 CUMULATIVE EFFECTS SCREENING REPORT - OFFSHORE

Project / Plan	Development Type	Status	Tier	Data Confidence / Availability	Closest Distance to DBD array Area (km)	Closest Distance to Offshore ECC (km)	Construction / Operation Period(s)*	Topic-Specific Shortlisting													
								Marine Physical Processes	Marine Water and Sediment Quality	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammals	Offshore and Intertidal Ornithology	Commercial Fisheries	Shipping and Navigation	Aviation, Radar and Military	Offshore Archaeology and Cultural Heritage	Other Marine Users	Human Health	Socio-Economics, Tourism and Recreation	Climate Change
Cedar Offshore Wind Farm	Offshore Wind Farm	Planning	6	High	218.33	155.05	Construction: Unknown Operation: Unknown														
Cenos Offshore Wind Farm	Offshore Wind Farm	Pending Consideration	6	Medium	224.96	165.56	Construction: 2030 to 2035 Operation: 2036+														

APPENDIX 6.4 CUMULATIVE EFFECTS SCREENING REPORT - OFFSHORE

Project / Plan	Development Type	Status	Tier	Data Confidence / Availability	Closest Distance to DBD array Area (km)	Closest Distance to Offshore ECC (km)	Construction / Operation Period(s)*	Topic-Specific Shortlisting													
								Marine Physical Processes	Marine Water and Sediment Quality	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammals	Offshore and Intertidal Ornithology	Commercial Fisheries	Shipping and Navigation	Aviation, Radar and Military	Offshore Archaeology and Cultural Heritage	Other Marine Users	Human Health	Socio-Economics, Tourism and Recreation	Climate Change
Culzean Offshore Wind Farm	Offshore Wind Farm	Approved	6	Medium	233.65	177.05	Construction: 2025 Operation: 2025+														
Dogger Bank A Offshore Wind Farm (EN010021)	Array	Operational	2	Medium	43	31	Operation: 2025+														

APPENDIX 6.4 CUMULATIVE EFFECTS SCREENING REPORT - OFFSHORE

Project / Plan	Development Type	Status	Tier	Data Confidence / Availability	Closest Distance to DBD array Area (km)	Closest Distance to Offshore ECC (km)	Construction / Operation Period(s)*	Topic-Specific Shortlisting													
								Marine Physical Processes	Marine Water and Sediment Quality	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammals	Offshore and Intertidal Ornithology	Commercial Fisheries	Shipping and Navigation	Aviation, Radar and Military	Offshore Archaeology and Cultural Heritage	Other Marine Users	Human Health	Socio-Economics, Tourism and Recreation	Climate Change
Dogger Bank B Offshore Wind Farm (EN010021)	Array	Under construction	2	Medium	52	9	Construction: 2020 to 2025 Operation: 2026+														
Dogger Bank C Offshore Wind Farm	Array	Under construction	2	Medium	0	3	Construction: 2020 to 2026 Operation: 2027+														

APPENDIX 6.4 CUMULATIVE EFFECTS SCREENING REPORT - OFFSHORE

Project / Plan	Development Type	Status	Tier	Data Confidence / Availability	Closest Distance to DBD array Area (km)	Closest Distance to Offshore ECC (km)	Construction / Operation Period(s)*	Topic-Specific Shortlisting													
								Marine Physical Processes	Marine Water and Sediment Quality	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammals	Offshore and Intertidal Ornithology	Commercial Fisheries	Shipping and Navigation	Aviation, Radar and Military	Offshore Archaeology and Cultural Heritage	Other Marine Users	Human Health	Socio-Economics, Tourism and Recreation	Climate Change
Dogger Bank South Offshore Wind Farm (EN010125)	Array	Examination	4	High	71	46	Construction: 2026 to 2033 Operation: 2034+														
Dogger Bank South West	Offshore Wind Farm	Application submitted	4	Medium	79	16	Construction: 2026 to 2032 Operation: From 2033														

APPENDIX 6.4 CUMULATIVE EFFECTS SCREENING REPORT - OFFSHORE

Project / Plan	Development Type	Status	Tier	Data Confidence / Availability	Closest Distance to DBD array Area (km)	Closest Distance to Offshore ECC (km)	Construction / Operation Period(s)*	Topic-Specific Shortlisting													
								Marine Physical Processes	Marine Water and Sediment Quality	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammals	Offshore and Intertidal Ornithology	Commercial Fisheries	Shipping and Navigation	Aviation, Radar and Military	Offshore Archaeology and Cultural Heritage	Other Marine Users	Human Health	Socio-Economics, Tourism and Recreation	Climate Change
Dudgeon Offshore Wind Farm	Offshore Wind Farm	Operational	1	High	208.66	111.78	Operation: 2017+														
Dudgeon Offshore Wind Farm Extension (EN010109)	Offshore Wind Farm	Approved	3	High	202	101	Construction: 2025 to 2033 Operation: 2034+														

APPENDIX 6.4 CUMULATIVE EFFECTS SCREENING REPORT - OFFSHORE

Project / Plan	Development Type	Status	Tier	Data Confidence / Availability	Closest Distance to DBD array Area (km)	Closest Distance to Offshore ECC (km)	Construction / Operation Period(s)*	Topic-Specific Shortlisting													
								Marine Physical Processes	Marine Water and Sediment Quality	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammals	Offshore and Intertidal Ornithology	Commercial Fisheries	Shipping and Navigation	Aviation, Radar and Military	Offshore Archaeology and Cultural Heritage	Other Marine Users	Human Health	Socio-Economics, Tourism and Recreation	Climate Change
East Anglia THREE Offshore Wind Farm (EN010056)	Offshore Wind Farm	Under Construction	3	High	240.91	220.34	Construction: 2022 to 2026 Operation: 2027+														
East Anglia ONE Offshore Wind Farm	Offshore Wind Farm	Operational	1	High	291.24	246.46	Operation: 2020+														

APPENDIX 6.4 CUMULATIVE EFFECTS SCREENING REPORT - OFFSHORE

Project / Plan	Development Type	Status	Tier	Data Confidence / Availability	Closest Distance to DBD array Area (km)	Closest Distance to Offshore ECC (km)	Construction / Operation Period(s)*	Topic-Specific Shortlisting													
								Marine Physical Processes	Marine Water and Sediment Quality	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammals	Offshore and Intertidal Ornithology	Commercial Fisheries	Shipping and Navigation	Aviation, Radar and Military	Offshore Archaeology and Cultural Heritage	Other Marine Users	Human Health	Socio-Economics, Tourism and Recreation	Climate Change
East Anglia ONE North Offshore Wind Farm (EN010077)	Offshore Wind Farm	Under Construction	3	High	229.21	280.15	Construction: 2024-2027 Operation: 2028+														
East Anglia TWO (EN010078)	Offshore Wind Farm	Under Construction	3	Medium	232.76	295.68	Construction: 2024 to 2027 Operational: 2028+														

APPENDIX 6.4 CUMULATIVE EFFECTS SCREENING REPORT - OFFSHORE

Project / Plan	Development Type	Status	Tier	Data Confidence / Availability	Closest Distance to DBD array Area (km)	Closest Distance to Offshore ECC (km)	Construction / Operation Period(s)*	Topic-Specific Shortlisting													
								Marine Physical Processes	Marine Water and Sediment Quality	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammals	Offshore and Intertidal Ornithology	Commercial Fisheries	Shipping and Navigation	Aviation, Radar and Military	Offshore Archaeology and Cultural Heritage	Other Marine Users	Human Health	Socio-Economics, Tourism and Recreation	Climate Change
European Offshore Wind Deployment Centre (EOWDC)	Offshore Wind Farm	Operational	1	High	372.27	295.78	Operation: 2018+														
Five Estuaries Offshore Wind Farm (EN010115)	Offshore Wind Farm	Examination	4		330	263	Construction: 2029 to 2030 Operation: 2031+														

APPENDIX 6.4 CUMULATIVE EFFECTS SCREENING REPORT - OFFSHORE

Project / Plan	Development Type	Status	Tier	Data Confidence / Availability	Closest Distance to DBD array Area (km)	Closest Distance to Offshore ECC (km)	Construction / Operation Period(s)*	Topic-Specific Shortlisting													
								Marine Physical Processes	Marine Water and Sediment Quality	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammals	Offshore and Intertidal Ornithology	Commercial Fisheries	Shipping and Navigation	Aviation, Radar and Military	Offshore Archaeology and Cultural Heritage	Other Marine Users	Human Health	Socio-Economics, Tourism and Recreation	Climate Change
Flora Offshore Wind Farm (00010686)	Offshore Wind Farm	Planning	6	High	353.42	283.64	Construction: Unknown Operation: Unknown														
Forthwind Offshore Wind Farm	Offshore Wind Farm	Under construction	3	High	286.42	375.61	Construction: 2024 Operation: 2025+														

APPENDIX 6.4 CUMULATIVE EFFECTS SCREENING REPORT - OFFSHORE

Project / Plan	Development Type	Status	Tier	Data Confidence / Availability	Closest Distance to DBD array Area (km)	Closest Distance to Offshore ECC (km)	Construction / Operation Period(s)*	Topic-Specific Shortlisting													
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Galloper Offshore Wind Farm (EN010003)	Offshore Wind Farm	Operational	1	High	332.67	258.11	Operation: 2018+														
Greater Gabbard Offshore Wind Farm (EN010077 and EN010078)	Offshore Wind Farm	Operational	1	High	335.22	258.37	Operation: 2012+														

APPENDIX 6.4 CUMULATIVE EFFECTS SCREENING REPORT - OFFSHORE

Project / Plan	Development Type	Status	Tier	Data Confidence / Availability	Closest Distance to DBD array Area (km)	Closest Distance to Offshore ECC (km)	Construction / Operation Period(s)*	Topic-Specific Shortlisting													
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Green Volt Offshore Wind Farm (00010230)	Offshore Wind Farm	Approved	3	High	297.36	362.01	Construction: 2025 to 2029 Operation: 2030+														
Gunfleet Sands Offshore Wind Farm	Offshore Wind Farm	Operational	1	High	371.70	264.94	Operation: 2010+														

APPENDIX 6.4 CUMULATIVE EFFECTS SCREENING REPORT - OFFSHORE

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								Marine Physical Processes	Marine Water and Sediment Quality	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammals	Offshore and Intertidal Ornithology	Commercial Fisheries	Shipping and Navigation	Aviation, Radar and Military	Offshore Archaeology and Cultural Heritage	Other Marine Users	Human Health	Socio-Economics, Tourism and Recreation	Climate Change
Hornsea Project Four Offshore Wind Farm (EN010098)	Array	Under Construction	3	Medium	134	31	Construction: 2025 to 2028 Operation: 2029+														
Hornsea Project Three Offshore Wind Farm (EN010080)	Array	Operational	3	High	106	107	Construction: 2023 to 2027 Operation: 2028+														

APPENDIX 6.4 CUMULATIVE EFFECTS SCREENING REPORT - OFFSHORE

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Hornsea Project Two Offshore Wind Farm (EN010053)	Offshore Wind Farm	Operational	1	High	121	63	Operation: 2022+														
Hornsea Project One Offshore Wind Farm (EN010033)	Offshore Wind Farm	Operational	1	High	122.09	80.12	Operation: 2019+														

APPENDIX 6.4 CUMULATIVE EFFECTS SCREENING REPORT - OFFSHORE

Project / Plan	Development Type	Status	Tier	Data Confidence / Availability	Closest Distance to DBD array Area (km)	Closest Distance to Offshore ECC (km)	Construction / Operation Period(s)*	Topic-Specific Shortlisting													
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Humber Gateway Offshore Wind Farm	Offshore Wind Farm	Operational	1	High	219.05	41.13	Operation: 2015+														
Hywind Scotland Offshore Wind Farm	Offshore Wind Farm	Operational	1	High	362.59	289.67	Operation: 2017+														

APPENDIX 6.4 CUMULATIVE EFFECTS SCREENING REPORT - OFFSHORE

Project / Plan	Development Type	Status	Tier	Data Confidence / Availability	Closest Distance to DBD array Area (km)	Closest Distance to Offshore ECC (km)	Construction / Operation Period(s)*	Topic-Specific Shortlisting													
								Marine Physical Processes	Marine Water and Sediment Quality	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammals	Offshore and Intertidal Ornithology	Commercial Fisheries	Shipping and Navigation	Aviation, Radar and Military	Offshore Archaeology and Cultural Heritage	Other Marine Users	Human Health	Socio-Economics, Tourism and Recreation	Climate Change
Inch Cape (00010140)	Offshore Wind Farm	Under Construction	3	High	247.28	330.78	Construction: 2023 to 2026 Operation: 2027+														
Judy Offshore Wind Farm	Offshore Wind Farm	Future potential	7	High	169.69	114.75	Unknown														

APPENDIX 6.4 CUMULATIVE EFFECTS SCREENING REPORT - OFFSHORE

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								Marine Physical Processes	Marine Water and Sediment Quality	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammals	Offshore and Intertidal Ornithology	Commercial Fisheries	Shipping and Navigation	Aviation, Radar and Military	Offshore Archaeology and Cultural Heritage	Other Marine Users	Human Health	Socio-Economics, Tourism and Recreation	Climate Change
Kentish Flats Offshore Wind Farm	Offshore Wind Farm	Operational	1	High	404.49	289.22	Operation: 2005+														
Kentish Flats Extension Offshore Wind Farm (EN010036)	Offshore Wind Farm	Operational	1	High	406.14	289.04	Operation: 2015+														

APPENDIX 6.4 CUMULATIVE EFFECTS SCREENING REPORT - OFFSHORE

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Kincardine Offshore Wind Farm	Offshore Wind Farm	Operational	1	High	348.73	273.18	Operation: 2021+														
Lincs, Lynn and Inner Dowsing Offshore Wind Farms	Offshore Wind Farm	Operational	1	High	246.55	89.62	Operation: 2012+														

APPENDIX 6.4 CUMULATIVE EFFECTS SCREENING REPORT - OFFSHORE

Project / Plan	Development Type	Status	Tier	Data Confidence / Availability	Closest Distance to DBD array Area (km)	Closest Distance to Offshore ECC (km)	Construction / Operation Period(s)*	Topic-Specific Shortlisting													
								Marine Physical Processes	Marine Water and Sediment Quality	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammals	Offshore and Intertidal Ornithology	Commercial Fisheries	Shipping and Navigation	Aviation, Radar and Military	Offshore Archaeology and Cultural Heritage	Other Marine Users	Human Health	Socio-Economics, Tourism and Recreation	Climate Change
London Array Offshore Wind Farm	Offshore Wind Farm	Operational	1	High	372.61	274.29	Operation: 2013														
Methil Offshore Wind Farm	Offshore Wind Farm	Operational	1	Medium	379.06	288.70	Operation: 2013+														

APPENDIX 6.4 CUMULATIVE EFFECTS SCREENING REPORT - OFFSHORE

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								Marine Physical Processes	Marine Water and Sediment Quality	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammals	Offshore and Intertidal Ornithology	Commercial Fisheries	Shipping and Navigation	Aviation, Radar and Military	Offshore Archaeology and Cultural Heritage	Other Marine Users	Human Health	Socio-Economics, Tourism and Recreation	Climate Change
Moray East Offshore Wind Farm	Offshore Wind Farm	Operational	1	High	429.84	356.91	Operation: 2022 +														
Moray West Offshore Wind Farm	Offshore Wind Farm	Under Construction	2	High	401.85	473.75	Construction: 2023 to 2024 Operation: 2025+														

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								Marine Physical Processes	Marine Water and Sediment Quality	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammals	Offshore and Intertidal Ornithology	Commercial Fisheries	Shipping and Navigation	Aviation, Radar and Military	Offshore Archaeology and Cultural Heritage	Other Marine Users	Human Health	Socio-Economics, Tourism and Recreation	Climate Change
Morven Offshore Wind Farm	Offshore Wind Farm	Planning	6	Medium	248.79	174.18	Unknown														
Muir Mhòr Offshore Wind Farm	Offshore Wind Farm	Planning	6	Medium	313.22	245.79	Unknown														

APPENDIX 6.4 CUMULATIVE EFFECTS SCREENING REPORT - OFFSHORE

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								Marine Physical Processes	Marine Water and Sediment Quality	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammals	Offshore and Intertidal Ornithology	Commercial Fisheries	Shipping and Navigation	Aviation, Radar and Military	Offshore Archaeology and Cultural Heritage	Other Marine Users	Human Health	Socio-Economics, Tourism and Recreation	Climate Change	
Neart na Gaoithe Offshore Wind Farm	Offshore Wind Farm	Under Construction	2	High	327.06	241.02	Construction: 2020 to 2024 Operation: 2025+															
Nordsee Cluster B - N-3.5	Offshore Wind Farm	Under Construction	3	Me- dium	260	285	Construction: 2025 to 2028 Operation: 2029+															

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								Marine Physical Processes	Marine Water and Sediment Quality	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammals	Offshore and Intertidal Ornithology	Commercial Fisheries	Shipping and Navigation	Aviation, Radar and Military	Offshore Archaeology and Cultural Heritage	Other Marine Users	Human Health	Socio-Economics, Tourism and Recreation	Climate Change
Nordsee Cluster B - N-3.6	Offshore Wind Farm	Under Construction	3	Medium	260	285	Construction: 2025 to 2028 Operation: 2029+														
Norfolk Vanguard (EN010079)	Offshore Wind Farm	Approved	3	High	204.39 (east) 185.29 (west)	209.74 (east) 212.23 (west)	Estimated completion before 2030														

APPENDIX 6.4 CUMULATIVE EFFECTS SCREENING REPORT - OFFSHORE

Project / Plan	Development Type	Status	Tier	Data Confidence / Availability	Closest Distance to DBD array Area (km)	Closest Distance to Offshore ECC (km)	Construction / Operation Period(s)*	Topic-Specific Shortlisting													
								Marine Physical Processes	Marine Water and Sediment Quality	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammals	Offshore and Intertidal Ornithology	Commercial Fisheries	Shipping and Navigation	Aviation, Radar and Military	Offshore Archaeology and Cultural Heritage	Other Marine Users	Human Health	Socio-Economics, Tourism and Recreation	Climate Change
Norfolk Vanguard East Offshore Wind Farm (EN010079)	Offshore Wind Farm	Under Construction	3	High	209.74	204.39	Construction: 2023 to 2028 Operation: 2029+														
Norfolk Vanguard West Offshore Wind Farm (EN010079)	Offshore Wind Farm	Under Construction	3	Medium	212.23	185.29	Construction: 2023 to 2028 Operation: 2029+														

APPENDIX 6.4 CUMULATIVE EFFECTS SCREENING REPORT - OFFSHORE

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								Marine Physical Processes	Marine Water and Sediment Quality	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammals	Offshore and Intertidal Ornithology	Commercial Fisheries	Shipping and Navigation	Aviation, Radar and Military	Offshore Archaeology and Cultural Heritage	Other Marine Users	Human Health	Socio-Economics, Tourism and Recreation	Climate Change
Norfolk Boreas Offshore Wind Farm (EN010087)	Offshore Wind Farm	Under Construction	3	High	192.37	188.68	Construction: 2023 to 2028 Operation: 2029+														
North Falls Offshore Wind Farm (EN010119)	Offshore Wind Farm	Examination	4	High	333	254	Construction: 2027 to 2032 Operation: 2033+														

APPENDIX 6.4 CUMULATIVE EFFECTS SCREENING REPORT - OFFSHORE

Project / Plan	Development Type	Status	Tier	Data Confidence / Availability	Closest Distance to DBD array Area (km)	Closest Distance to Offshore ECC (km)	Construction / Operation Period(s)*	Topic-Specific Shortlisting													
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Ossian Offshore Wind Farm: Array (EN0210006)	Offshore Wind Farm	Pending Consideration	6	High	Over 50	Overlap	Construction: 2031 to 2037 Operation: 2038+														
Outer Dowsing Offshore Wind Farm (EN010130)	Offshore Wind Farm	Examination	4	High	170	77	Construction: 2027 to 2030 Operation: 2031+														

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Project / Plan	Development Type	Status	Tier	Data Confidence / Availability	Closest Distance to DBD array Area (km)	Closest Distance to Offshore ECC (km)	Construction / Operation Period(s)*	Topic-Specific Shortlisting													
								Marine Physical Processes	Marine Water and Sediment Quality	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammals	Offshore and Intertidal Ornithology	Commercial Fisheries	Shipping and Navigation	Aviation, Radar and Military	Offshore Archaeology and Cultural Heritage	Other Marine Users	Human Health	Socio-Economics, Tourism and Recreation	Climate Change
Pentland Offshore Wind Farm (00010577)	Offshore Wind Farm	Under Construction	3	Medium	485.88	557.44	Construction: 2025 to 2026 Operation: 2027+														
Race Bank Offshore Wind Farm	Offshore Wind Farm	Operational	1	High	88.20	225.76	Operation: 2018+														

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								Marine Physical Processes	Marine Water and Sediment Quality	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammals	Offshore and Intertidal Ornithology	Commercial Fisheries	Shipping and Navigation	Aviation, Radar and Military	Offshore Archaeology and Cultural Heritage	Other Marine Users	Human Health	Socio-Economics, Tourism and Recreation	Climate Change
Rampion 2 Offshore Wind Farm (EN010117)	Offshore Wind Farm	Approved	4	High	523	363	Construction: 2025 to 2030 Operation: 2031+														
Rampion Offshore Wind Farm (EN010032)	Offshore Wind Farm	Operational	1	High	362.04	516.70	Operation: 2017+														

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								Marine Physical Processes	Marine Water and Sediment Quality	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammals	Offshore and Intertidal Ornithology	Commercial Fisheries	Shipping and Navigation	Aviation, Radar and Military	Offshore Archaeology and Cultural Heritage	Other Marine Users	Human Health	Socio-Economics, Tourism and Recreation	Climate Change
Salamander Offshore Wind Farm (00010807)	Offshore Wind Farm	Application submitted	4	Medium	293.52	363.01	Construction: 2027 to 2029 Operation: 2030+														
Scroby Sands Offshore Wind Farm	Offshore Wind Farm	Operational	1	High	266.44	189.21	Operation: 2004+														

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								Marine Physical Processes	Marine Water and Sediment Quality	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammals	Offshore and Intertidal Ornithology	Commercial Fisheries	Shipping and Navigation	Aviation, Radar and Military	Offshore Archaeology and Cultural Heritage	Other Marine Users	Human Health	Socio-Economics, Tourism and Recreation	Climate Change
Seagreen Offshore Wind Farm	Offshore Wind Farm	Operational	1	High	304.22	225.61	Operation: 2023+														
Seagreen Phase 1A Offshore Wind Farm	Offshore Wind Farm	Approved	1	High	304.22	225.61	Construction: 2029 to 2032 Operational: 2033+														

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Sheringham Shoal	Offshore Wind Farm	Operational	1	High	113.80	229.97	Construction: 2009 to 2011 Operation: 2011 to 2046*															
Sheringham Shoal Offshore Wind Farm Extension (EN010109)	Offshore Wind Farm	Approved	3	High	224	108	Construction: 2025 to 2033 Operation: 2034+															

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								Marine Physical Processes	Marine Water and Sediment Quality	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammals	Offshore and Intertidal Ornithology	Commercial Fisheries	Shipping and Navigation	Aviation, Radar and Military	Offshore Archaeology and Cultural Heritage	Other Marine Users	Human Health	Socio-Economics, Tourism and Recreation	Climate Change
Sofia Offshore Wind Farm (EN010051)	Offshore Wind Farm	Under Construction	2	High	18	23	Construction: 2025 Operation: 2026 onwards														
Teesside Offshore Wind Farm (EN010051)	Offshore Wind Farm	Operational	1	High	89.94	245.57	Operation: 2013+														

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								Marine Physical Processes	Marine Water and Sediment Quality	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammals	Offshore and Intertidal Ornithology	Commercial Fisheries	Shipping and Navigation	Aviation, Radar and Military	Offshore Archaeology and Cultural Heritage	Other Marine Users	Human Health	Socio-Economics, Tourism and Recreation	Climate Change
Thanet Offshore Wind Farm (EN010084)	Offshore Wind Farm	Operational	1	High	302.33	396.64	Operation: 2018+														
Triton Knoll Offshore Wind Farm (EN010005)	Offshore Wind Farm	Operational	1	High	206	68	Operation: 2022+														

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West of Orkney Offshore Wind Farm (00010561)	Offshore Wind Farm	Pending Consideration	4	High	578	508	Construction: 2027 to 2029 Operation: 2030+														
Westernmost Rough Offshore Wind Farm	Offshore Wind Farm	Operational	1	High	20.19	214.80	Operation: 2015+														

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								Marine Physical Processes	Marine Water and Sediment Quality	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammals	Offshore and Intertidal Ornithology	Commercial Fisheries	Shipping and Navigation	Aviation, Radar and Military	Offshore Archaeology and Cultural Heritage	Other Marine Users	Human Health	Socio-Economics, Tourism and Recreation	Climate Change
Orbital Projects 5	Tidal	Pre-planning	6	Medium	559	492	Construction: 2028. Operation: 2029+														
East Inshore, North-east Inshore, East Offshore and North-east Offshore Marine Plans	Strategic Plans	Adopted	7	High	Overlaps	Overlaps	-														

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Breagh Platform to Shore Pipeline	Oil / Gas Pipeline	Operational	1	Medium	Over 50	24.08	-														
Shearwater to Bacton Seal pipeline	Oil / Gas Pipeline	Operational	1	Medium	Over 50	Overlap	-														

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Apollo to Minerva Pipeline	Oil / Gas Pipeline	Operational	1	Medium	Over 50	27.10	-														
Eris to Mercury Pipeline	Oil / Gas Pipeline	Operational	1	Medium	Over 50	35.98	-														

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Esmond to Bacton Pipeline	Oil / Gas Pipeline	Operational	1	Medium	Over 50	28.93	-														
Kilmar routes Pipeline	Oil / Gas Pipeline	Operational	1	Medium	Over 50	24.46	-														

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Johnston routes Pipeline	Oil / Gas Pipeline	Operational	1	Medium	Over 50	41.21	-														
Johnston Field Extension Pipeline	Oil / Gas Pipeline	Operational	1	Medium	Over 50	47.45	-														

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Langeled to Easington Pipeline	Oil / Gas Pipeline	Operational	1	Medium	Over 50	Overlap	-														
Mercury to Neptune Pipeline	Oil / Gas Pipeline	Operational	1	Medium	Over 50	31.11	-														

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Easington to Tolmount Pipeline	Oil / Gas Pipeline	Operational	1	Medium	Over 50	13.06	-														
Cleeton routes Pipeline	Oil / Gas Pipeline	Operational	1	Medium	Over 50	10.30	-														

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Ravenspur routes Pipeline	Oil / Gas Pipeline	Operational	1	Me- dium	Over 50	24.35	-														
Rough routes Pipeline	Oil / Gas Pipeline	Operational	1	Me- dium	Over 50	29.22	-														

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West Sole to Easington Pipeline	Oil / Gas Pipeline	Operational	1	Medium	Over 50	38.62	-														
Wollaston to Whittle Pipeline	Oil / Gas Pipeline	Operational	1	Medium	Over 50	7.34	-														

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York to Easington Pipeline	Oil / Gas Pipeline	Operational	1	Medium	Over 50	24.48	-														
Northern Endurance Partnership Carbon Capture Storage (D/4271/2021)	Carbon Storage Site	Approved	4	Medium	Over 50	Overlap	Construction: 2025 to 2027 Operation: 2028+														

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Dogger Bank A Offshore Wind Farm (EN010021)	Export Cable	Under Construction	2	High	63.00	0.00	Construction: 2024 to 2026 Operation: 2027+														
Dogger Bank B Offshore Wind Farm (EN010021)	Export Cable	Under Construction	2	High	67.00	0.00	Construction: 2024 - 2026 Operational: 2025+														

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Dogger Bank C Offshore Wind Farm	Export Cable	Under Construction	2	High	20.00	0.00	Construction: 2024 - 2026 Operational: 2026+														
Dogger Bank South Offshore Wind Farm (EN010125)	Export Cable	Pending Approval	4	High	73.00	0.00	Construction: 2025 - 2032 Operational: 2033+														

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Eastern Green Link (EGL 2)	Electricity Interconnector	Under Construction	2	Medium	Over 50	3.85	Construction: 2023 – 2028 Operational: 2029+														
Eastern Green Link (EGL 3) (EN0210003)	Electricity Interconnector	Planning	6	Medium	Over 50	Overlap	Construction: 2028 – 2031 Operational: 2032+														

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								Marine Physical Processes	Marine Water and Sediment Quality	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammals	Offshore and Intertidal Ornithology	Commercial Fisheries	Shipping and Navigation	Aviation, Radar and Military	Offshore Archaeology and Cultural Heritage	Other Marine Users	Human Health	Socio-Economics, Tourism and Recreation	Climate Change
Eastern Green Link (EGL 4) (EN0210003)	Electricity Interconnector	Planning	6	Me- dium	Over 50	Overlap	Construction: 2027 – 2031 Operational: 2032+														
Hornsea Project Four Offshore Wind Farm (EN010098)	Export Cable	Approved	1	Me- dium	134.00	0.00	Construction 2025 - 2030 Operational from 2031														

APPENDIX 6.4 CUMULATIVE EFFECTS SCREENING REPORT - OFFSHORE

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								Marine Physical Processes	Marine Water and Sediment Quality	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammals	Offshore and Intertidal Ornithology	Commercial Fisheries	Shipping and Navigation	Aviation, Radar and Military	Offshore Archaeology and Cultural Heritage	Other Marine Users	Human Health	Socio-Economics, Tourism and Recreation	Climate Change
Hornsea Project Three Offshore Wind Farm (EN010080)	Export Cable	Approved	3	Medium	106.00	106.00	Construction 2025 - 2028 Operational from 2029														
National Grid HND Bootstrap	Pipeline	Concept	7	Low	N/A	N/A	Unknown														

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Northern Endurance pipeline	Pipeline	Planning	4	Medium	150.00	0.00	Unknown														
Sofia export cable (EN010051)	Cables	Under Construction	2	Medium	33.00	0.00	Construction 2024 - 2027 Operational from 2028														

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Eastern Green Link 1 (EGL1)	Cables	Under Construction	3	High	254.00	116.00	Construction: 2025 - 2029 Operational: 2030+														
North Sea Connect	Cables	Operational	1	-	Over 50	Overlap	-														

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Ossian Wind Farm Export Cable (EN0210006)	Cables	Planning	7	High	144.24	0.00	Unknown														
Sea Link (EN020026)	Electricity Interconnector	Planning	6	-	342	275	Construction: 2026 to 2030 Operation: 2031+														

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Tata North Europe	Sub-sea cables	Operational	1	Medium	Over 50	Overlap	-														
Pangea North	Sub-sea cables	Operational	1	Medium	Over 50	Overlap	-														

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Havhingsten Seg 2.1	Sub-sea cables	Operational	1	Medium	Over 50	Overlap	-														
VSNL Northern Europe (TGN North Europe)	Sub-sea cables	Operational	1	Medium	Over 50	Overlap	-														

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UK – Denmark 4	Sub-sea cables	Disused / Removed	1	Medium	Over 50	Overlap	-														
UK – Denmark 6	Sub-sea cables		1	Medium	Over 50	Overlap	-														

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UK-Germany 6	Sub-sea cables	Inactive	0	Medium	38	Overlap	-														
Greenwich Light East 473/1	Aggregate / Dredging Site	Operational	1	High	556	481	License start: 2021 License end: 2036														

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Greenwich Light East 473/2	Aggregate / Dredging Site	Operational	1	High	547	474	License start: 2021 License end: 2036														
Inner Dowsing 481/1-2	Aggregate / Dredging Site	Operational	1	High	238	95	License start: 2023 License end: 2038														

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Inner Owers North 488	Aggregate / Dredging Site	Operational	1	High	598	535	License start: 2023 License end: 2038														
Thames D 524	Aggregate / Dredging Site	Operational	1	High	300	360	License start: 2022 License end: 2036														

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West Bassurelle 458	Aggregate / Dredging Site	Operational	1	High	460	529	License start: 2022 License end: 2037														
West Bassurelle 464	Aggregate / Dredging Site	Operational	1	High	460	529	License start: 2022 License end: 2037														

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Inner Dowsing, Race Bank and North Ridge Special Area of Conservation (SAC) byelaw 2022 (bottom towed fishing, use of pots and anchored nets and lines)	Designated site with confirmed fishing restrictions	Enacted management measure	1	High	221.4	76.6	2022																	
Dogger Bank SAC byelaw 2022 (bottom towed fishing)	Designated site with confirmed fishing restrictions	Enacted management measure	1	High	0.00	0.00	2022																	

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Marine Protected Areas Bottom Towed Fishing Gear byelaw 2023 (applicable to MPAs including Farnes East Marine Conservation Zone; Haisborough, Hammond and Winterton SAC and North Norfolk Sandbanks and Saturn Reef SAC (bottom towed fishing))	Designated sites with confirmed fishing restrictions	Enacted management measure	1	High	142.4	88.2	2023														

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UK Government prohibition of the fishing of sandeels within English waters of ICES Area 4 (North Sea), with this measure applying to all vessels of any nationality, effective from 26 March 2024	Confirmed fishing restriction	Enacted management measure	1	High	0.00	0.00	2024														

