

### Hornsea Project Four: Environmental Statement (ES)

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# Volume A4, Annex 5.3: Offshore Cumulative Effects

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### Glossary

Term	Definition
Cumulative Effects	The combined effect of Hornsea Four in combination with the effects from a number
	of different projects, on the same single receptor/resource. Cumulative impacts are
	those that result from changes caused by other past, present or reasonably
	foreseeable actions together with Hornsea Four.
Design Envelope	A description of the range of possible elements that make up the Hornsea Four
	design options under consideration, as set out in detail in the project description.
	This envelope is used to define Hornsea Four for Environmental Impact Assessment
	(EIA) purposes when the exact engineering parameters are not yet known. This is
	also often referred to as the "Rochdale Envelope" approach.
Development	An order made under the Planning Act 2008 granting development consent for one
Consent Order (DCO)	or more Nationally Significant Infrastructure Projects (NSIP).
Environmental	A statutory process by which certain planned projects must be assessed before a
Impact Assessment	formal decision to proceed can be made. It involves the collection and
	consideration of environmental information, which fulfils the assessment
	requirements of the EIA Directive and EIA Regulations, including the publication of
	an Environmental Statement (ES)
Hornsea Project Four	The term covers all elements of the project (i.e. both the offshore and onshore).
Offshore Wind Farm	Hornsea Four infrastructure will include offshore generating stations (wind turbines),
	electrical export cables to landfall, and connection to the electricity transmission
	network. Hereafter referred to as Hornsea Four.
Order Limits	The limits within which Hornsea Four (the 'authorised project') may be carried out.
Orsted Hornsea	The Applicant for the proposed Hornsea Project Four Offshore Wind Farm
Project Four Ltd.	Development Consent Order (DCO).

### **Acronyms**

Acronym	Definition	
AfL	Agreement for Lease	
BEIS	Department of Business, Enterprise and Industrial Strategy	
CCS	Carbon Capture and Storage	
CEA	Cumulative Effects Assessment	
DCO	Development Consent Order	
ECC	Export Cable Corridor	
EIA	Environmental Impact Assessment	
ES	Environmental Statement	
GIS	Geographic Information System	
HVDC	High Voltage Direct Current	
MDS	Maximum Design Scenario	
MHWS	Mean High Water Springs	
MPS	Marine Policy Statement	
NPS	National Policy Statements	
NSIP	Nationally Significant Infrastructure Project	
PEIR	Preliminary Environmental Information Report	
PINS	The Planning Inspectorate	
RIAA	IAA Report to Inform the Appropriate Assessment	



Acronym	Definition	
SoS	Secretary of State	
SSC	Suspended Sediment Concentrations	
Zol	Zone of Influence	
ZTV	Zone of Theoretical Visibility	

#### **Units**

Unit	Definition
km	Kilometre



#### 1 Introduction

- 1.1.1.1 Orsted Hornsea Project Four Limited (hereafter the 'Applicant') is proposing to develop the Hornsea Project Four Offshore Wind Farm (hereafter 'Hornsea Four') which will be located approximately 69 km from the East Riding of Yorkshire in the Southern North Sea and will be the fourth project to be developed in the former Hornsea Zone. Hornsea Four will include both offshore and onshore infrastructure including an offshore generating station (wind farm), export cables to landfall, and connection to the electricity transmission network (see Volume A1, Chapter 4: Project Description for full details on the Project Design).
- 1.1.2 The Hornsea Four Agreement for Lease (AfL) area was 846 km² at the Scoping phase of project development. In the spirit of keeping with Hornsea Four's approach to Proportionate Environmental Impact Assessment (EIA), the project has due consideration to the size and location (within the existing AfL area) of the final project that is being taken forward to Development Consent Order (DCO) application. This consideration is captured internally as the "Developable Area Process", which includes Physical, Biological and Human constraints in refining the developable area, balancing consenting and commercial considerations with technical feasibility for construction.
- 1.1.1.3 The combination of Hornsea Four's Proportionality in EIA and Developable Area process has resulted in a marked reduction in the array area taken forward at the point of DCO application. Hornsea Four adopted a major site reduction from the array area presented at Scoping (846 km²) to the Preliminary Environmental Information Report (PEIR) boundary (600 km²), with a further reduction adopted for the Environmental Statement (ES) and DCO application (468 km²) due to the results of the PEIR, technical considerations and stakeholder feedback. The evolution of the Hornsea Four Order Limits is detailed in Volume A1, Chapter 3: Site Selection and Consideration of Alternatives and Volume A4, Annex 3.2: Selection and Refinement of the Offshore Infrastructure.
- 1.1.1.4 A fundamental requirement of undertaking the Cumulative Effects Assessment (CEA) is to identify those projects, plans and activities with which Hornsea Four may interact to produce a cumulative impact. These interactions may arise within the construction, operation and maintenance or decommissioning phases of the project, noting that effects during decommissioning were scoped out of the assessment by the Planning Inspectorate (PINS) at the Scoping stage.
- 1.1.1.5 The objective of this annex is to provide details on the proposed methodology for the Hornsea Four offshore CEA, justification for the approach taken regarding cumulative impacts, and to detail the long list of projects, plans and activities that have been considered within the Hornsea Four offshore CEA. Annex 5.5: Onshore Cumulative Effects presents the onshore CEA for Hornsea Four. The approach for cumulative impacts is based upon the PINS Advice Note Seventeen: Cumulative Effects Assessment (PINS 2019). The approach to the CEA is intended to be specific to Hornsea Four and takes account of the extensive available knowledge of the environment and other activities around the Hornsea Four Order Limits.



#### 2 Policy and legislative context

- 2.1.1.1 The Planning Act 2008 underpins the consenting regime for certain types of development classed as Nationally Significant Infrastructure Projects (NSIPs). Hornsea Four is classed as an NSIP and will require a development consent order from the Secretary of State (SoS) for the Department of Business, Energy and Industrial Strategy (BEIS) made pursuant to the Planning Act 2008. The Infrastructure Planning (Environmental Impact Assessment) Regulations 2017 (the EIA Regulations) implemented the requirements of the EIA Directive (As codified by Directive 2011/92/EU and subsequently amended by Directive 2014/52/EU) into UK law in respect of NSIP projects.
- 2.1.1.2 The overarching National Policy Statement (NPS) for Energy (EN-1) (DECC 2011a) and the NPS for Renewable Energy Infrastructure (EN-3) (DECC 2011b) both identify the need to address the maximum potential adverse impacts. Matters considered to affect the maximum adverse impact are topic impacts, inter-relationships between topics, and cumulative impacts. The Maximum Design Scenario (MDS), or envelope, is also sometimes referred to as the 'Rochdale Envelope'.
- 2.1.1.3 PINS have produced 'Advice Note Nine: Rochdale Envelope' (2018) setting out the views of PINS regarding how this approach should be used in the context of the Planning Act 2008. The Rochdale Envelope approach is a well understood concept that involves ensuring that any EIA is based on assessing the realistic MDS where flexibility or a range of options is sought as part of the consent application. This guidance confirms that the assessment of MDS(s) should address impacts which may not be significant on their own but could become significant cumulatively with impacts from other development.
- 2.1.1.4 PINS have produced 'Advice Note Seventeen: Cumulative Effects Assessment' (PINS 2019), which provides guidance on a staged process that can be used for cumulative effects assessments for NSIPs. Advice Note Seventeen details a four-step process that can be followed by developers and which has been applied here.
- 2.1.1.5 The Marine Policy Statement (MPS) (HM Government 2011) sets out the need to address cumulative effects, i.e. 'when considering potential benefits and adverse effects, decision-makers should also consider any multiple and cumulative impacts of proposals in the light of other projects and activities'.

#### **3** Consultation

#### 3.1 Scoping and PEIR consultation

- 3.1.1.1 Consultation is a key part of the DCO application process. Consultation regarding cumulative effects has been conducted through the EIA scoping process (Orsted 2018) and formal consultation on the Preliminary Environmental Impact Report (PEIR) under the EIA Regulations and pursuant to section 42 of the 2008 Act. An overview of the project consultation process is presented within Volume A1, Chapter 6: Consultation.
- 3.1.1.2 A summary of notable agreements and consultation responses from PINS and other key stakeholders relevant to the CEA are provided in Table 1 below. The consideration of offshore cumulative effects has been discussed with consultees through the Hornsea Four Evidence Plan process. Agreements made with consultees within the Evidence Plan process are set out in the topic-specific Evidence Plan logs which are appended to the Evidence Plan report (B1.1.1: Evidence Plan), an annex to the Consultation Report.



Table 1: Consultation relating to the CEA.

Comment	Response to issue raised and/or where considered in this annex
Scoping Opinion – November 2018	
Cumulative effects during decommissioning:	Noted. Hornsea Four will submit an offshore
Decommissioning is not proposed to be addressed in the	decommissioning plan for approval prior to th
cumulative assessment on the basis that it is too far in the future	start of offshore construction.
for enough information to be available to form a robust	Hornsea Four have committed to developing
assessment. The Inspectorate notes the intention to assess this	Decommissioning Plan (Co181) (see Annex 5.2
phase of the Proposed Development and to commit to a	Commitments Register)
decommissioning plan at the relevant time, and is content with	•
this approach. The Inspectorate agrees to scope cumulative	
effects during decommissioning out of the cumulative	
assessment; however, the Applicant should take into account	
comments in Section 3, Paragraph 2.3.11 of this Scoping Opinion.	
Cumulative effects on offshore environment:	This annex sets out the approach to the CEA
The proposed cumulative effects assessment does not include	with the long list of projects, plans and
any detail of what aspects of the offshore environment will be	activities presented in Appendix A. Topic-
assessed, however it is noted that the approach set out will	specific assessments are included in the
examine effects on a receptor basis as part of the refinement of	relevant ES chapters.
the list of projects/plans to be considered. The ES should explain	'
fully the results of this process and set out what aspects and	
receptors have been assessed. Specific comments are provided in	
Tables 4.4, 4.11 and 4.12 above with regard to those	
environmental aspects. The Inspectorate notes the intention to	
follow the advice in Advice Note 17.	
Zones of Influence (ZoIs) for cumulative assessment:	Zols have been defined in Table 3 of this anne
The Zols for the cumulative assessment differ from the	which have been derived based upon the
environmental aspect chapter for some aspects. It is noted that	extent over which cumulative impacts are
some principles behind the ZoI are given in Paragraph 8.4.3.2 and	likely to occur. Cumulative effect screening
the Inspectorate would expect the ES to clearly explain how the	ranges specific to each EIA receptor topic are
Zol or study area(s) have been determined, based on the likely	presented in <b>Table 6</b> .
extent of impacts.	
Section 42 Consultation — Natural England September 2019	
Viking Link, Dogger Bank Creyke Beck A and B Export Cables as	The long-list of cumulative schemes has been
well as Hornsea Project Two Export Cables have been screened	reviewed and the updated results of
n for Benthic and Intertidal Ecology, however they have not been	cumulative screening have been carried
assessed in the corresponding chapter (PEIR Volume 2 Chapter 2	through to relevant ES chapters. The Applicar
Benthic and Intertidal Ecology).	has ensured that all projects screened in for
	assessment within Annex 5.3: Offshore

**Cumulative Effects** have been carried through for assessment within the relevant ES chapters.



#### 3.2 Updates to the cumulative long-list following Section 42 and Section 47 Consultation

- 3.2.1.1 Since the publication of the PEIR and the completion of the formal Section 42 and Section 47 consultation process (23 September 2019), a number of projects have come forward with more detailed information in terms of project design envelopes and / or construction timetables. The long-list of projects has therefore been reviewed in light of this updated information to ensure the most up-to-date cumulative design scenarios are carried through to assessment. Updates to the long-list have fed into topic-specific cumulative assessments within individual chapters.
- 3.2.1.2 This process of updating has also identified, through consultation and updates to available data, new projects which may have a cumulative interaction with Hornsea Four. Through consultation with Premier Oil, it has been established that infrastructure associated with the Johnston gas field will be decommissioned in the near future, and that these decommissioning activities may temporally overlap with the construction of Hornsea Four. Premier Oil also submitted an EIA for a gas platform on the Tolmount gas field, which was constructed in 2020/21. This overlaps with the Hornsea Four offshore Export Cable Corridor (ECC). This information has been fed into the relevant topic-specific assessments within the relevant ES chapters.
- 3.2.1.3 In May 2019, Drax Group, Equinor and National Grid Ventures signed a Memorandum of Understanding committing to working together to explore opportunities for creating a zero carbon cluster in the Humber (now known as Zero Carbon Humber), utilising the Endurance reservoir as a potential carbon capture and storage (CCS) site. In parallel, in October 2019, the Applicant was approached by BP on behalf of Net Zero Teesside who are also looking to use the Endurance reservoir for CCS. Since then, consultation has been ongoing between the Applicant and both National Grid Ventures and BP regarding Endurance. At the time of writing, no offshore planning applications have been submitted for the Endurance project and only limited information is available for the purposes of the cumulative assessment.
- 3.2.1.4 In February 2021, the Crown Estate's offshore wind leasing Round 4 tender process concluded and six proposed new offshore wind projects in English and Welsh waters were announced. At the time of writing, no planning applications have been submitted in relation to these projects. All six projects are also in the early stages of development with only high-level information available.
- 3.2.1.5 Additionally, since the publication of the PEIR and the completion of the formal Section 42 and Section 47 consultation process, plans have been announced for the Scotland England Green Link 2 (SEGL2), a subsea HVDC link between Peterhead in Aberdeenshire and Drax in North Yorkshire being developed by National Grid Electricity Transmission (NGET). Offshore planning submission is currently proposed for February 2022 and as such, only high-level information is available at the time of writing.



#### 3.3 Updates to the cumulative long list following refinement of the Hornsea Four Order Limits

- 3.3.1.1 Following consultation with shipping and navigation stakeholders (as detailed in Volume A2, Chapter 7: Shipping and Navigation and B1.1: Consultation Report) and with Statutory Nature Conservation Bodies (SNCBs) in relation to ornithological interests (as detailed in Volume A2, Chapter 5: Offshore and Intertidal Ornithology and B1.1: Consultation Report), the Hornsea Four Order Limits were refined between PEIR and ES to mitigate shipping and navigation and offshore ornithology impacts (see also Volume A1, Chapter 3: Site Selection and Alternatives, and its annexes).
- 3.3.1.2 The cumulative long-list presented in Appendix A of this document has subsequently been updated to provide up-to-date and accurate distances between Hornsea Four and the schemes considered as part of the CEA. A final review of the long list against the most recent data sources was made in June 2021 to account for any changes to the status of the projects, plans and activities considered prior to final application (cut-off date for inclusion within the Hornsea Four CEA of 31st May 2021).

#### 4 Definitions of cumulative effects for Hornsea Four

- 4.1.1.1 The ES addresses the cumulative effects for both the onshore and offshore elements of Hornsea Four (with onshore elements dealt with in Annex 5.5: Onshore Cumulative Effects). For the purposes of the Hornsea Four CEA process, cumulative effects include the impact of other relevant developments that were not present at the time of data collection or survey.
- 4.1.1.2 This definition of cumulative effects is consistent with the definition provided by PINS in Advice Note Seventeen and has been applied throughout the ES.
- 4.1.1.3 In-combination effects are defined as the combined effect of Hornsea Four, with the effects from a number of different plans and projects, on the integrity of European Sites designated for their nature conservation value. In-combination effects are presented separately within B2.2: Report to Inform the Appropriate Assessment (RIAA).

#### 5 Approach to cumulative effects assessment

#### 5.1 Overview

5.1.1.1 The assessment of cumulative effects arising as a result of Hornsea Four is a required part of an impact assessment under the Infrastructure Planning (Environmental Impact Assessment) Regulations (2017). As described in paragraph 2.1.1.4, PINS produced Advice Note Seventeen: Cumulative Effect Assessment, to provide guidance on a staged process that can be used for CEAs for NSIPs. Table 2 summarises the stages and activities involved in the CEA process as described in PINS Advice Note Seventeen (PINS 2019).



Table 2: Stages and activities involved in the CEA process (adapted from PINS Advice Note Seventeen (PINS 2019)).

CEA stage	Activity
Stage 1 – Establish the	The Project undertakes a desk study to identify the ZoI for the development for the
project's ZoI and establish a	topics that are proposed to be scoped into the EIA. The ZoI analysis is documented
long-list of other	(i.e. table of topics and ZoI), with supporting Geographic Information System (GIS);
developments	The long list of other plans and projects/activities is drawn up through a desk study
	of planning applications, development plan documents, relevant development
	frameworks and any other available sources to identify 'other development' within
	the Zol;
	Information on each project (location, development type and timing, etc.) is
	documented, along with the certainty or tier assigned to the 'other development'
	(i.e. confidence it will take place in the current form and when it will take place in
	relation to the project); and
	Advice Note Seventeen notes that the project should then consult with the relevant
	planning authority/authorities and statutory consultees regarding the long list (and
	ideally prior to the submission of the Scoping Report)1.
Stage 2 – Screening of long	PINS have provided advice on the matters which the inclusion/exclusion threshold
list: Identify a shortlist of	criteria should address, against which the potential for other development to give
other developments for the	rise to significant cumulative effects by virtue of overlaps in temporal scope, the
CEA	scale and nature of the 'other developments' and/or receiving environment, or any
	other relevant factors is assessed. From this assessment, a shortlist of 'other
	developments' to be included in the CEA is produced by the Applicant. It is noted
	that documented information on each of the 'other development' is likely to be high
	level at this stage, outlining the key issues to take forward.
	Advice Note Seventeen notes that the proposed inclusion/exclusion should ideally
	be finalised prior to the request for a Scoping Opinion, and the project must consult
	with the relevant planning authorities and statutory consultees regarding the
	shortlist <sup>1</sup> .
Stage 3 – Information	All available information on the 'other developments' within the shortlist generated
gathering	at Stage 2 is collated to inform the CEA.
Stage 4 – Assessment	The project assesses the impacts of Hornsea Four cumulatively with other plans and
	projects included within the shortlist and based on the information gathered at
	Stage 3. The assessment also includes, where relevant, consideration of any
	mitigation measures where adverse cumulative effects are identified and signposts
	to the relevant means of securing mitigation (e.g. DCO requirements and associated
	mitigation plans).
	The Applicant considers that while not to be used as a means to shift the burden of
	mitigation, it may be appropriate to ascertain the contribution of each development
	to the effect (done via professional judgement). However, it may be useful during
	the consultation with other developers to identify means to jointly address
	mitigation of significance adverse cumulative effects and means to ensure delivery.

 $<sup>^1</sup>$  Note: Hornsea Four did not provide a long list for consideration at scoping for offshore cumulative issues, this was prepared for consultation at the PEIR stage and updated for ES and is included here in **Appendix A**; a long list for onshore issues was provided.



5.1.1.2 The following sections set out the Hornsea Four approach to completing Stages 1 to 3, incorporating the development of the long list, tiering of projects and the development of the topic-specific short lists. These short lists have been considered in detail in each of the topic-specific ES chapters as part of the cumulative assessment process (Stage 4).

#### 5.2 Stage 1 - Establish the ZoIs and identify long list of 'other development'

#### 5.2.1 Approach to the long list

- 5.2.1.1 Under the first stage of the offshore CEA, a long-list of relevant projects, plans and activities occurring within a large study area around Hornsea Four has been developed. This has encompassed a large area of the North Sea. The long-list includes the details of the relevant operational or planned projects, plans and activities including those in the UK and adjoining international jurisdictions and has been based on publicly available information available at the time of preparation.
- 5.2.1.2 The long-list, seaward of Mean High-Water Springs (MHWS) has been produced based on the scale of other projects and the potential for them to produce cumulative effects with Hornsea Four. Any projects or plans that went into planning post 31<sup>st</sup> May 2021 have not been considered for inclusion in the CEA.
- 5.2.1.3 Table 3 defines the search area extents that have been applied in developing the long list of other projects, plans and activities. It should be noted that these initial screening ranges are based on what are considered to be the maximum extents of potential impacts from those activities and are therefore considered to be highly precautionary. Impact-specific screening ranges used for individual topics may use reduced ranges depending on topic-specific criteria.

Table 3: CEA offshore long list search areas extents or Zols.

Project, plan or activity	CEA search area extents	Rationale	
Aggregate dredging Up to 50 km from the Hornsea and disposal Four array area and offshore ECC		This range represents a precautionary maximum distance at which effects from aggregate dredging and disposal could occur (e.g. changes to hydrodynamic regime/coastal processes).	
CCS	Up to 50 km from the Hornsea Four array area and offshore ECC	This range represents a precautionary maximum distance at which effects from CCS activities could occur.	
Offshore energy	Up to 500 km from the Hornsea Four array area and offshore ECC	This range represents a precautionary maximum distance at which effects from offshore energy (e.g. underwater noise from piling) could occur.	
Commercial fisheries	Up to 200 km from the Hornsea Four array area and offshore ECC	This range represents a precautionary maximum distance at which effects from commercial fisheries activities could occur.	
Oil and gas	Up to 200 km from the Hornsea Four array area and offshore ECC	This range represents a precautionary maximum distance at which effects from oil and gas activities could occur.	



Project, plan or activity	CEA search area extents	Rationale
Cables and pipelines	Up to 50 km from the Hornsea Four array area and offshore ECC	This range represents a precautionary distance at which effects from cables and pipelines (e.g. increases to Suspended Sediment Concentrations (SSCs) from installation) could occur.
Shipping	Up to 200 km from the Hornsea Four array area and offshore ECC	This range represents a precautionary maximum distance at which effects from commercial fisheries activities could occur.
Military, aviation and radar	Up to 200 km from the Hornsea Four array area and offshore ECC	This range represents a precautionary maximum distance at which effects from military, aviation and radar effects could occur.
Coastal developments (including ports)	Up to 200 km from the Hornsea Four array area and offshore ECC	This range represents a precautionary maximum distance at which effects from military, aviation and radar effects could occur.

- 5.2.1.4 All projects, plans and activities within the search areas defined in the table above have been identified through a desktop study using, amongst others, the following data sources:
  - PINS National Infrastructure Planning website<sup>2</sup>;
  - The Crown Estate website<sup>3</sup>;
  - European Marine Observation and Data Network (EMODnet) data<sup>4</sup>;
  - Oil and Gas UK website<sup>5</sup>; and
  - Developer and project proponent websites (numerous sources).
- 5.2.1.5 Additionally, whilst the National Grid Continental Link project has not been assessed as part of the CEA (as the project is at an early stage of development and the specific location unconfirmed), the Applicant has been in regular engagement with National Grid to explore opportunities for coordination. This engagement will continue post-submission of Hornsea Four.
- 5.2.1.6 The Hornsea Four cumulative long list is presented in Appendix A. All offshore projects, plans and activities considered within the CEA, based on the search areas set out in Table 3 are presented in Annex 5.4: Location of Offshore Cumulative Schemes.

#### 5.2.2 Tiered approach

5.2.2.1 In assessing the potential for cumulative effects from Hornsea Four, it is important to bear in mind that projects, predominantly those that are currently 'proposed', may or may not be, ultimately, taken forward for development. Therefore, there is a need to build in some consideration of certainty (or uncertainty) with respect to the potential impacts which might arise from such proposals, in line with the approach set out by PINS in Advice Note Seventeen (PINS 2019). For example, projects which are already under construction are more likely to contribute to cumulative effects than those development applications that are not yet submitted.

<sup>&</sup>lt;sup>2</sup> https://infrastructure.planninginspectorate.gov.uk/

<sup>&</sup>lt;sup>3</sup> https://www.thecrownestate.co.uk/en-gb/what-we-do/on-the-seabed/marine-planning/

<sup>4</sup> http://www.emodnet-humanactivities.eu/view-data.php

https://www.ogauthority.co.uk/data-centre/interactive-maps-and-tools/



- 5.2.2.2 For these reasons, all of the relevant long list plans and projects have been allocated into 'tiers', reflecting their current status within the planning and development process. This allows the cumulative impact assessment to present several scenarios, reflecting the varying levels of certainty of an activity proceeding and therefore the potential for impacts to arise that might act cumulatively with the impacts arising from Hornsea Four. Appropriate weight may therefore be given to each scenario (tier) in the decision-making process when considering the potential cumulative impacts associated with Hornsea Four. For example, it may be considered that greater weight should be attributed to tier 1 than tier 2.
- 5.2.2.3 In accordance with PINS Advice Note Seventeen (PINS 2019), the proposed tiering structure is described in Table 4. The tiers are listed in descending order of level of detail likely to be available (and, correspondingly, certainty of effects arising). It is noted in PINS Advice Note Seventeen (PINS 2019) that where other projects are expected to be completed before the construction of the proposed NSIP and the effects of those projects are fully determined, effects arising from them should be considered as part of the baseline and may be considered as part of assessment in the construction and operational phase (noting that the assessment should clearly distinguish between projects forming part of the baseline and those in the CEA).

Table 4: Description of tiers of other developments considered for CEA (adapted from PINS Advice Note Seventeen).

	Project under construction.	
Tier 1	Permitted applications, whether under the Planning Act 2008 or other regimes, but not yet implemented.	
	Submitted applications, whether under the Planning Act 2008 or other regimes, but not yet determined.	
Tier 2 Projects on the Planning Inspectorate's Programme of Projects where a Scoping Report has been submitted.		
	Projects on the Planning Inspectorate's Programme of Projects where a Scoping Report has not been submitted.	
	Identified in the relevant Development Plan (and emerging Development Plans with appropriate weight	
Tier 3	being given as they move closer to adoption) recognising that much information on any relevant proposals will be limited.	
	Identified in other plans and programmes (as appropriate) which set the framework for future development consents/approvals, where such development is reasonably likely to come forward.	

5.2.2.4 The tiering allocated to each of projects considered within the topic-specific CEAs is presented in the CEA sections of the ES chapters.

#### 5.3 Stage 2 – Screening of long list and identification of shortlist

#### 5.3.1 Screening of long list

5.3.1.1 Having developed the Hornsea Four long list, all projects, plans and activities have been screened based on the level of detailed information available and the potential for interaction with Hornsea Four, whether this interaction be temporal, spatial or potential. This screening has produced EIA topic-specific short-lists of projects to be considered further within the CEA as part of each ES chapter. It should be noted that this process may have screened a project in for one EIA topic, but screened it out for another. The screening process has applied the criteria presented in Table 5.



Table 5: CEA long list screening criteria.

_				
Pro	iect	scree	ned	-ın

- Project, plan or activity is considered as part of the baseline environment but has ongoing effects;
- Potential for impact-receptor pathway exists;
- Potential for a spatial effect interaction exists; and/or
- Potential for temporal effect interaction exists.

#### **Project screened-out**

- Project, plan or activity included as part of the baseline environment (therefore not a consideration in the CEA);
- Low data confidence (meaningful assessment cannot be undertaken);
- No potential impact-receptor pathway exists;
- No potential for a spatial effect interaction; and/or
- No potential for a temporal effect interaction.
- 5.3.1.2 During the screening process, the steps above have been followed in the defined order in order to allow a clear justification for screening projects in/out. Further detail on the project screening criteria is given in the following sections:
  - **Potential impact-receptor pathway:** There is the potential that a pathway exists whereby an impact could have an effect on a receptor. For example, increases to suspended sediment concentration could have an impact on fish and shellfish receptors, but underwater noise could not have an effect on aviation and radar receptors;
  - **Spatial effect interaction:** The impacts on a receptor from Hornsea Four and one or more other plans/projects have a geographical overlap. For example, underwater noise resulting from piling at Hornsea Four could interact with noise arising from the construction of another offshore wind farm project, if it is sufficiently close to Hornsea Four. If there is no spatial interaction, there is considered to be no potential for a cumulative effect; and
  - **Temporal effect interaction:** The impacts from Hornsea Four and one or more other plans/projects have the potential to occur at the same time. If there is no temporal interaction, there is considered to be no potential for a cumulative effect.
- 5.3.1.3 Only where there is the potential for both spatial and temporal interaction between effects at Hornsea Four and one or more other plans/projects, has a cumulative impact been taken forward for consideration in the CEA. The screening of the long list is set out in Appendix A, identifying those projects screened in or out for further consideration on the basis of one or more of the preceding criteria.

#### 5.3.2 Stage 2 – Topic-specific screening of long list (impact ranges)

5.3.2.1 The screened long list identifies all the other plans, projects and activities that might give rise to cumulative effects when considered alongside the potential impacts arising from Hornsea Four but does not identify the differences in impact ranges for different environmental receptors. In order to focus the topic specific CEAs presented in the ES chapters, the screened long list was subject to further topic specific screening to identify those relevant plans, projects and activities within the Zols of Hornsea Four for each topic. The topic-specific screening distances used to refine the screened long list into topic-specific short lists (along with justifications for the distances used) are provided in Table 6.



Table 6: Cumulative effect screening ranges specific to each EIA receptor topic.

EIA topic	Maximum extent of impact and justification	
Marine geology, oceanography and	10 km around the array area and 14 km around the ECC (based on the	
physical processes	excursion distance of a spring tidal ellipse for respective locations) for	
	impacts related to suspended sediments. For impacts related to waves,	
	projects have been screened in to examine if they have the potential	
	capacity to interact cumulatively on wave processes, especially for	
	wave directions approaching the adjacent coastline.	
Benthic and intertidal ecology	10 km around the array area and 14 km around the ECC (based on	
	physical processes assessment).	
Fish and shellfish ecology	10 km around the array area and 14 km around the ECC (for sedimentary	
	impacts, based on physical processes). Greater distance for underwater	
	noise related impacts based on underwater noise modelling (100 km).	
Marine mammals	Dependent on the reference population extent (e.g. 'the North Sea' for	
	harbour porpoise).	
Offshore and intertidal ornithology	Dependent on the maximum foraging range of the species in question	
	(e.g. 380 km for gannet).	
Commercial fisheries	Dependent on the extent of the relevant fishing grounds.	
Shipping and navigation	Based on shipping lanes and available sea room around relevant	
	components of Hornsea Four.	
Aviation and radar	Distance at which the Hornsea Four array would interact with that of	
	another development (40 km for construction impacts and 100 km for	
	operational impacts).	
Marine archaeology	Dependent on the archaeological receptor in question.	
Seascape and visual resources	Based on the maximum extent of the Zone of Theoretical Visibility (ZTV).	
Infrastructure and other users	Based on the extent of the order limits plus any relevant safety zones.	

- 5.3.2.2 These topic-specific ranges have been applied to the long list, presented in Appendix A, to identify relevant short list plan/projects/activities to be taken forward to the topic-specific CEA presented in each ES chapter (summary short list tables are presented in each of the offshore ES topic chapters).
- 5.3.2.3 It is important to note that cumulative impacts with commercial fishery activities have not been considered in any topic specific CEAs. The Applicant recognises that fishing can have an impact on certain receptors. This activity is, however, considered to be within the environmental baseline against which the assessments have been carried out. It is not possible to determine what the baseline conditions would be without the impacts that commercial fishing impose on such receptors and therefore it is considered that there is no means by which such an assessment can meaningfully be undertaken.

#### 5.4 Stage 3 (information gathering) and Stage 4 (assessment)

5.4.1.1 Following on from the production of the topic-specific long lists, EIA topics authors have undertaken an information gathering exercise in relation to all plans, projects and activities that have been screened-in for each topic. This information gathering has then been used to inform the CEA assessments presented within each EIA topic chapter.



#### 6 References

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Appendix A – Offshore Cumulative Screening Matrices

#### Volume A4, Annex 5.3: Offshore Cumulative Effects: Assessment Matrices - Aggregates & Disposal



In Planning/Consenting/Pre-Construction
Construction
Operation and Maintenance
Decommissioning

a	Included as part of the topic baseline and hence not considered within the cumulative impact assessment.
b	Part of the baseline but has an ongoing impact and is therefore considered relevant to the cumulative impact assessment: Screened in to assessment.
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d	No conceptual effect-receptor pathway: Screened out of assessment.
е	Low data confidence: Screened out of assessment.
f	No physical effect-receptor overlap: Screened out of assessment.
q	No temporal overlap: Screened out of assessment.

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					Constr	uction Pe	riod (red	outline den	otes the	e offshore	constr	ruction pe	riod for H	ornsea Four														
Project	Data Source(s)	Data Confidence Assessment	Notes	Status of Developmen	2019	2020	2022	2023	2024	2025	0202	2027 2028	2029	2030	Distance from the Horns Four Array Area (km)		a Distance from the Hornsea Four offshore HVAC Booster Station Area (km)	Marine Geology, Oceanography and Physical Processes	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammals	Offshore and Intertidal Ornithology	Commercial Fisheries	Shipping and Navigation	Aviation and Radar	Marine Archaeology	Seascape and Visual Resources	Infrastructure and Other Users
United Kingdom																_	_											
Humber 4 and 7 (506)	The Crown Estate	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.	Aggregate Extraction Area operated by DEME Building Materials Ltd	Open											48.36	55.27	110.79	f	f	f	d	d	а	а	f	f	a	f
Humber 4 (514/4)	The Crown Estate	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.		Open											58.03	40.51	46.66	f	f	f	d	d	а	а	f	f	f	f
Humber 2 (514/2)	The Crown Estate	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.		Open											65.94	44.40	46.59	f	f	f	d	d	а	а	f	f	f	f
Humber 3 (514/3)	The Crown Estate	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.		Open											66.30	44.01	45.38	f	f	f	d	d	а	а	f	f	f	f
Humber 1 (514/1)	The Crown Estate	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.		Open											69.84	46.19	47.35	f	f	f	d	d	а	а	f	f	f	f
Hundale Potash Mine	The Crown Estate	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.	Offshore Minerals Lease operated by York Potash	Open											68.09	19.06	30.75	f	f	f	d	d	С	а	g	f	f	f
Boulby Potash Mine	The Crown Estate	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.	Offshore Minerals Lease operated by Cleveland Potash	Open											97.98	45.23	64.25	f	f	f	d	d	а	а	f	f	f	f
Bridlington Bay B	CEFAS	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Disposal Site	Closed											74.23	0.00	30.22	g	g	g	d	g	g	f	f	g	f	е
Bridlington A (HU015)	CEFAS	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Disposal Site	Open											72.14	2.69	28.59	b	b	b	d	d	b	а	g	b	f	f
Westermost Rough OWF	CEFAS	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Disposal Site	Closed											62.84	21.98	26.28	f	f	f	d	d	а	а	g	f	f	f
Scarborough Rock	CEFAS	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Disposal Site	Open											87.61	28.49	49.64	f	f	f	d	d	а	а	g	f	f	f
Alexandra Dock	CEFAS	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Disposal Site	Closed											94.49	31.91	53.24	g	g	g	d	g	g	f	f	g	f	е
Scalby	CEFAS	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Disposal Site	Closed											90.30	32.75	53.38	g	g	g	d	g	g	f	f	g	f	е
Hedon Haven	CEFAS	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Disposal Site	Open											91.63	32.80	51.26	f	f	f	d	d	а	а	g	f	f	f
Humber 4B/Hook	CEFAS	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Disposal Site	Open											>50	32.34	>50	f	f	f	d	d	а	а	g	f	f	f
Humber 4	CEFAS	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Disposal Site	Open											>50	32.42	>50	f	f	f	d	d	а	а	g	f	f	f
Humber 4B/Hook Extension	CEFAS	'accurate'	Disposal Site	Open											93.94	33.25	53.20	f	f	f	d	d	а	а	g	f	f	f
Scarborough	CEFAS	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Disposal Site	Closed											90.57	33.70	54.00	g	g	g	d	g	g	f	f	g	f	е

#### Volume A4, Annex 5.3: Offshore Cumulative Effects: Assessment Matrices - Aggregates & Disposal



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	b	Part of the baseline but has an ongoing impact and is therefore
In Planning/Consenting/Pre-Construction	c	Potential cumulativ
Construction	d	No conceptual effect-r
Operation and Maintenance	e	Low data con
Decommissioning	f f	No physical effect-re
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С	Potential cumulative impact exists: Screened in to assessment.
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f	No physical effect-receptor overlap: Screened out of assessment.
0	No temporal overlan: Screened out of assessment

					Constru	ıction Pe	riod (red	outline den	otes the	ne offshor	e const	truction	period for	Hornsea	a Four)														
Project	Data Source(s)	Data Confidence Assessment	Notes	Status of Development	2019	2020	2022	2023	2024	2025	2026	2027	2029	2030	2031-2050	Distance from the Hornsea Four Array Area (km)	Distance from the Hornsea Four Offshore Export Cable Corridor (km)	Distance from the Hornsea Four offshore HVAC Booster Station Area (km)	Marine Geology, Oceanography and Physical Processes	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammals	Offshore and Intertidal Ornithology	Commercial Fisheries	Shipping and Navigation	Aviation and Radar	Marine Archaeology	Seascape and Visual Resources	Infrastructure and Other Users
Hull Marina	CEFAS	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Disposal Site	Disused												97.58	33.44	56.09	g	g	g	d	g	g	f	f	g	f	е
Hornsea Disposal Area 1	CEFAS	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Disposal Site	Open										Г		21.80	27.15	54.22	f	f	f	d	d	а	а	g	f	а	f
North Killinghome Cargo Haven	CEFAS	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Disposal Site	Closed												95.74	40.32	57.06	g	g	g	d	g	g	f	f	g	f	е
Holme Channel Deep	CEFAS	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Disposal Site	Open												92.68	41.20	55.62	f	f	f	d	d	а	а	g	f	f	f
Stone Creek	CEFAS	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Disposal Site	Open										Г		90.72	41.23	54.23	f	f	f	d	d	а	a	g	f	f	f
Foul Holm (Circular)	CEFAS	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Disposal Site	Closed										Г		92.20	41.47	55.20	g	g	g	d	g	g	f	f	g	f	е
Foul Holm Deposit	CEFAS	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Disposal Site	Closed												92.19	41.78	55.44	g	g	g	d	g	g	f	f	g	f	е
Humber 3A	CEFAS	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Disposal Site	Open										Γ		93.47	42.10	56.43	f	f	f	d	d	а	а	g	f	f	f
Humber 3	CEFAS	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Disposal Site	Closed										Г		91.98	42.32	55.53	g	g	g	d	g	g	f	f	g	f	е
Redcliffe	CEFAS	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Disposal Site	Closed												110.76	43.36	69.03	g	g	g	d	g	g	f	f	g	f	е
Sunk Dredge Channel A	CEFAS	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Disposal Site	Disused												86.95	43.96	53.62	f	f	f	d	d	а	a	g	f	f	f
North Sunk	CEFAS	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Disposal Site	Closed												88.70	44.05	54.40	g	g	g	d	g	g	f	f	g	f	е
Humber 1A	CEFAS	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Disposal Site	Open												86.77	44.98	54.28	f	f	f	d	d	а	а	9	f	f	f
Galahad Pipeline Route	CEFAS	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Disposal Site	Closed												49.30	49.39	86.21	g	g	g	d	g	g	f	f	g	f	е
New Sand Hole	CEFAS	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Disposal Site	Closed												68.37	46.13	47.79	g	g	g	d	g	g	f	f	g	f	е
Humber 2 Extension B	CEFAS	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Disposal Site	Closed												91.34	46.47	57.19	g	g	g	d	g	g	f	f	g	f	е
Humber 2	CEFAS	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Disposal Site	Open												90.96	46.47	56.96	f	f	f	d	d	а	а	9	f	f	f
Humber 2 Extension A	CEFAS	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Disposal Site	Closed												91.37	46.49	57.21	g	g	g	d	g	g	f	f	g	f	е
Spurn Head	CEFAS	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Disposal Site	Closed												62.79	46.50	52.92	g	g	g	d	9	g	f	f	g	f	е

#### Volume A4, Annex 5.3: Offshore Cumulative Effects: Assessment Matrices - Aggregates & Disposal



															a		Include	d as part of the	topic baselin	e and hence n	ot considered	d within the cur	nulative impa	ct assessmen				
				_											b		Part of the baseline but has an	ongoing impac	t and is there	fore considere	ed relevant to	the cumulative	impact asse	ssment: Scre	ened in to as	sessment.		
	In Planning/Consen	ting/Pre-Construction													С			Po	tential cumul	ative impact e	xists: Scree	ned in to asse	ssment.					
	Construction														d			No co	nceptual effe	ct-receptor pa	thway: Scre	ened out of as	ssessment.					
	Operation and Main	tenance													е				Low data	confidence: S	creened out	t of assessme	nt.					
	Decommissioning														f			No	physical effe	t-receptor ove	erlap: Screer	ned out of ass	essment.					
,				_											g				No tempo	ral overlap: S	creened out	t of assessme	nt.					
					Const	ruction Pe	iod (red ou	tline der	notes the o	ffshore o	construct	tion perio	d for Ho	rnsea Four)														
<sup>P</sup> roject	Data Source(s)	Data Confidence Assessment	Notes	Status of Development	2019	2020	2022	2023	2024	2025	2027	2028	2029	2030	Distance from the Hornsea Four Array Area (km)	Distance from the Hornsea Four Offshore Export Cable Corridor (km)	Distance from the Hornsea Four offshore HVAC Booster Station Area (km)	Marine Geology, Oceanography and Physical Processes	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammals	Offshore and Intertidal Ornithology	Commercial Fisheries	Shipping and Navigation	Aviation and Radar	Marine Archaeology	Seascape and Visual Resources	Infrastructure and Other Users
Humber 2 Extension C	CEFAS	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Disposal Site	Closed											91.50	46.74	57.44	g	g	g	d	g	g	f	f	g	f	е
Pyewipe Channel	CEFAS	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Disposal Site	Open											92.48	47.93	58.64	f	f	f	d	d	а	а	g	f	f	f
riton Knoll	EMODnet	Medium - Third party project details published in the public domain but not confirmed as being	Disposal Site	Open											57.40	50.55	62.36	f	f	f	d	d	а	а	g	g	f	f



		la l	a	included as part of the topic baseline and hence not considered within the cumulative impact assessment.
_		b	b	Part of the baseline but has an ongoing impact and is therefore considered relevant to the cumulative impact assessment: Screened in to assessment.
	In Planning/Consenting/Pre-Construction	c		Potential cumulative impact exists: Screened in to assessment.
	Construction	d	d	No conceptual effect-receptor pathway: Screened out of assessment.
	Operation and Maintenance	e	е	Low data confidence: Screened out of assessment.
	Decommissioning	f	f	No physical effect-receptor overlap: Screened out of assessment.
_			g	No temporal overlap: Screened out of assessment.

														g				No tempora	l overlap: Sc	reened out o	f assessmen	t.					
					Constructio	n Period	(red outline	denotes th	e offshore	constru	ction perio	d for H	lornsea Four)														
Project	Data Source(s)	Data Confidence Assessment	Notes	Status of Development	2019	2021	2022	2024	2025	2020	2028	2029	2030	Distance from the Hornsea Four Array Area (km)	Distance from the Hornsea Four Offshore Export Cable Corridor (km)	Distance from the Hornsea Four offshore HVAC Booster Station Area (km)	Marine Geology, Oceanography and Physical Processes	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammals	Offshore and Intertidal Ornithology	Commercial Fisheries	Shipping and Navigation	Aviation and Radar	Marine Archaeology	Seascape and Visual Resources	Infrastructure and Other Users
United Kingdom																											
Hornsea Project Two	The Crown Estate	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.	Offshore Wind Farm	Under Construction				П						3.46	10.61	67.23	С	С	С	С	С	С	a	С	g	f	b
Hornsea Project One	The Crown Estate	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCF.	Offshore Wind Farm	Active										16.84	26.56	83.33	С	f	f	С	С	С	a	С	g	f	С
Westermost Rough	The Crown Estate	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCF	Offshore Wind Farm	Active				П						62.94	22.07	26.38	f	f	f	g	С	а	а	b	g	f	g
Hornsea Three	The Crown Estate	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCF	Offshore Wind Farm	Consented										46.47	60.28	116.91	С	f	С	С	С	С	С	С	f	f	f
Green Investment Group - Tota - Round 4	The Crown Estate	Low - Limited data available in the public domain.	Offshore Wind Farm	Pre-planning Application										36.53	36.75	67.36	е	f	е	g	d	е	е	е	е	f	f
RWE Renewables 1 - Round 4	The Crown Estate	Low - Limited data available in the public domain.	Offshore Wind Farm	Pre-planning Application										41.40	57.78	95.38	е	f	е	g	d	е	е	е	е	f	f
RWE Renewables 2 - Round 4	The Crown Estate	Low - Limited data available in the public domain.	Offshore Wind Farm	Pre-planning Application										41.62	59.87	77.71	е	f	е	g	d	е	е	е	е	f	f
Humber Gateway	The Crown Estate	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.	Offshore Wind Farm	Active										66.37	41.65	42.69	f	f	f	g	С	а	a	b	g	f	f
Triton Knoll	The Crown Estate	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.	Offshore Wind Farm	Under Construction				П						56.99	50.20	61.89	f	f	f	С	С	С	а	С	g	f	f
Dogger Bank A	The Crown Estate	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.	Offshore Wind Farm	Consented										65.86	83.83	108.33	f	f	С	С	С	С	С	d	f	f	f
Dudgeon	The Crown Estate	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.	Offshore Wind Farm	Active				П						74.89	74.81	102.70	f	f	f	С	С	С	а	b	f	f	f
Dogger Bank B	The Crown Estate	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.	Offshore Wind Farm	Consented							П			76.14	94.43	112.01	f	f	С	С	С	С	С	d	f	f	f
Race Bank	The Crown Estate	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.	Offshore Wind Farm	Active										78.83	72.90	83.60	f	f	f	g	С	а	a	b	f	f	f
Lincs	The Crown Estate	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.	Offshore Wind Farm	Active				П						96.62	84.15	90.07	f	f	f	g	С	а	а	b	f	f	f
Teesside	The Crown Estate	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.	Offshore Wind Farm	Active				П						140.61	86.99	109.28	f	f	f	g	С	а	а	f	f	f	f
Inner Dowsing	The Crown Estate	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.	Offshore Wind Farm	Active										101.69	88.57	93.77	f	f	f	g	С	а	а	f	f	f	f
Sheringham Shoal	The Crown Estate	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.	Offshore Wind Farm	Active										91.54	90.25	107.45	f	f	f	g	С	а	а	b	f	f	f
Sofia	The Crown Estate	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.	Offshore Wind Farm	Pre-construction										97.75	114.01	144.05	f	f	С	С	С	С	С	d	f	f	f
Lynn	The Crown Estate	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.	Offshore Wind Farm	Active										107.20	95.46	101.12	f	f	f	g	С	а	а	f	f	f	f
Dogger Bank C	The Crown Estate	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.	Offshore Wind Farm	Consented										120.86	136.85	171.02	f	f	f	С	С	С	f	f	f	f	f
Norfolk Boreas	The Crown Estate	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.	Offshore Wind Farm	In Planning										134.88	138.68	188.41	f	f	f	С	С	С	f	f	f	f	f
Norfolk Vanguard	The Crown Estate	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.	Offshore Wind Farm	In Planning										134.40	135.41	176.99	f	f	f	С	С	С	f	f	f	f	f
Blyth Demonstration Site	The Crown Estate	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.	Offshore Wind Farm	Active										178.10	140.73	156.54	f	f	f	g	С	а	g	f	f	f	f



	In Planning/Consenting/Pre-Construction
	Construction
	Operation and Maintenance
	Decommissioning

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				_										g				No tempora	l overlap: Sc	reened out o	f assessment						
				С	onstruction	n Period (	red outline	denotes th	e offshore	construct	tion perio	d for Ho	ornsea Four														
Project	Data Source(s)	Data Confidence Assessment	Notes	Status of Development	2019	2021	2022	2024	2025	2027	2028	2029	2030	Distance from the Hornsea Four Array Area (km)	Distance from the Hornsea Four Offshore Export Cable Corridor (km)	Distance from the Hornsea Four offshore HVAC Booster Station Area (km)	Marine Geology, Oceanography and Physical Processes	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammals	Offshore and Intertidal Ornithology	Commercial Fisheries	Shipping and Navigation	A viation and Radar	Marine Archaeology	Seascape and Visual Resources	Infrastructure and Other Users
Blyth	The Crown Estate	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.	Offshore Wind Farm	Active				П						189.08	147.34	165.41	f	f	f	С	f	С	а	f	f	f	f
Scroby Sands	The Crown Estate	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.	Offshore Wind Farm	Active										150.93	151.09	179.50	f	f	f	g	С	а	а	f	f	f	f
East Anglia Three	The Crown Estate	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.	Offshore Wind Farm	Consented										168.48	169.31	212.86	f	f	f	С	С	С	g	f	g	f	f
East Anglia One North	The Crown Estate	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.	Offshore Wind Farm	In planning										186.20	186.60	220.74	f	f	f	С	С	С	g	f	f	f	f
East Anglia Two	The Crown Estate	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.	Offshore Wind Farm	In planning										194.20	194.48	225.13	f	f	f	С	С	С	g	f	f	f	f
East Anglia One	The Crown Estate	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.	Offshore Wind Farm	Active										201.96	202.40	237.68	f	f	f	С	С	С	g	f	g	f	f
Barrow	The Crown Estate	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.	Offshore Wind Farm	Active										278.00	199.95	234.82	f	f	f	g	d	а	а	f	f	f	f
Burbo Bank	The Crown Estate	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.	Offshore Wind Farm	Active										282.32	202.99	237.59	f	f	f	g	d	а	а	f	f	f	f
Burbo Bank Extension	The Crown Estate	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.	Offshore Wind Farm	Active										284.71	205.39	239.98	f	f	f	g	d	а	а	f	f	f	f
West of Duddon Sands	The Crown Estate	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.	Offshore Wind Farm	Active										285.98	207.87	242.77	f	f	f	g	d	а	а	f	f	f	f
Ormonde	The Crown Estate	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.	Offshore Wind Farm	Active										286.26	208.97	243.56	f	f	f	g	d	а	а	f	f	f	f
Walney 1	The Crown Estate	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.	Offshore Wind Farm	Active										289.54	211.85	246.59	f	f	f	g	d	а	а	f	f	f	f
Walney Extension 4	The Crown Estate	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.	Offshore Wind Farm	Active										295.06	217.26	252.04	f	f	f	g	d	а	а	f	f	f	f
Walney Extension 3	The Crown Estate	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.	Offshore Wind Farm	Active										308.61	231.78	266.20	f	f	f	g	d	а	а	f	f	f	f
Walney 2	The Crown Estate	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.	Offshore Wind Farm	Active								П		295.01	217.69	252.29	f	f	f	g	d	а	а	f	f	f	f
Cobra & Flotation Energy - Round 4	The Crown Estate	Low - Limited data available in the public domain.	Offshore Wind Farm	Pre-planning Application										295.79	216.95	252.02	f	f	f	g	d	е	f	f	е	f	f
EnBW and BP 1 - Round 4	The Crown Estate	Low - Limited data available in the public domain.	Offshore Wind Farm	Pre-planning Application										312.82	233.52	268.57	f	f	f	g	d	е	f	f	е	f	f
EnBW and BP 2 - Round 4	The Crown Estate	Low - Limited data available in the public domain.	Offshore Wind Farm	Pre-planning Application										312.47	234.63	269.44	f	f	f	g	d	е	f	f	е	f	f
Galloper	The Crown Estate	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.	Offshore Wind Farm	Active										226.12	226.27	252.03	f	f	f	g	С	а	а	f	f	f	f
Greater Gabbard	The Crown Estate	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.	Offshore Wind Farm	Active										223.86	223.97	248.38	f	f	f	g	С	а	а	f	f	f	f
North Hoyle	The Crown Estate	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.	Offshore Wind Farm	Active										298.51	222.11	256.72	f	f	f	f	d	а	а	f	f	f	f
Gwynt y Mor	The Crown Estate	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.	Offshore Wind Farm	Active										302.88	223.51	258.19	f	f	f	g	d	а	а	f	f	f	f
Rhyl Flats	The Crown Estate	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.	Offshore Wind Farm	Active										312.00	235.60	270.18	f	f	f	g	d	а	а	f	f	f	f



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Project	Data Source(s)	Data Confidence Assessment	Notes	Status of Development	2019	2020	2022	2025	2025	2026	2027	2029	2030	Distance from the Hornsea Four Array Area (km)	Distance from the Hornsea Four Offshore Export Cable Corridor (km)	Distance from the Hornsea Four offshore HVAC Booster Station Area (km)	Marine Geology, Oceanography and Physical Processes	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammals	Offshore and Intertidal Ornithology	Commercial Fisheries	Shipping and Navigation	Aviation and Radar	Marine Archaeology	Seascape and Visual Resources	Infrastructure and Other Users
Robin Rigg East	The Crown Estate	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.	Offshore Wind Farm	Active				T						307.56	238.92	270.16	f	f	f	g	d	а	а	f	f	f	f
Robin Rigg West	The Crown Estate	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.	Offshore Wind Farm	Active										308.36	239.43	270.73	f	f	f	g	d	а	а	f	f	f	f
Gunfleet Sands I	The Crown Estate	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.	Offshore Wind Farm	Active										248.78	248.49	262.38	f	f	f	g	С	а	а	f	f	f	f
Gunfleet Sands II	The Crown Estate	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.	Offshore Wind Farm	Active										249.26	249.07	263.56	f	f	f	g	С	а	а	f	f	f	f
Gunfleet Sands Demo	The Crown Estate	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.	Offshore Wind Farm	Active										253.08	252.68	265.94	f	f	f	g	С	а	а	f	f	f	f
London Array	The Crown Estate	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.	Offshore Wind Farm	Active				L						254.65	254.58	271.90	f	f	f	g	С	a	а	f	f	f	f
Kentish Flats I	The Crown Estate	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.	Offshore Wind Farm	Active				┸						279.95	279.35	291.09	f	f	f	g	С	а	а	f	f	f	f
Kentish Flats II	The Crown Estate	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.	Offshore Wind Farm	Active				┸				Ш		280.73	280.01	291.13	f	f	f	g	С	a	а	f	f	f	f
Thanet	The Crown Estate	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.	Offshore Wind Farm	Active										281.91	281.86	299.64	f	f	f	g	С	a	а	f	f	f	f
Rampion	The Crown Estate	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.	Offshore Wind Farm	Active										379.41	368.92	375.09	f	f	f	g	С	a	а	f	f	f	f
Dudgeon Extension	The Crown Estate	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.	Offshore Wind Farm	Pre-planning Application										69.49	69.48	92.80	е	е	С	С	С	С	С	b	е	f	е
Sheringham Shoal Extension	The Crown Estate	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.	Offshore Wind Farm	Pre-planning Application										83.60	82.32	100.68	е	е	С	С	С	С	g	b	е	f	е
North Falls	The Crown Estate	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.	Offshore Wind Farm	Pre-planning Application										223.86	223.97	248.38	е	е	g	g	е	g	g	f	е	f	е
Five Estuaries Wind Farm	The Crown Estate	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.	Offshore Wind Farm	Pre-planning Application										228.57	228.80	256.43	е	е	g	g	е	g	g	f	е	f	е
Awel y Mor	The Crown Estate	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.	Offshore Wind Farm	Pre-planning Application										311.49	232.07	266.88	е	е	g	С	d	f	g	f	f	f	е
Rampion II	The Crown Estate	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.	Offshore Wind Farm	Pre-planning Application				_						379.41	368.92	375.09	е	е	g	g	е	g	g	f	f	f	е
Neart na Gaoithe	EMODnet	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Offshore Wind Farm	Under Construction				╄						296.10	272.19	285.06	f	f	f	С	С	С	g	f	f	f	f
Kincardine	EMODnet	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Offshore Wind Farm	Under Construction										353.00	342.00	350.00	f	f	f	g	С			f	g	f	е
Inch Cape	EMODnet	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Offshore Wind Farm	Authorised				L						311.84	292.35	303.64	f	f	f	С	С	С	g	f	g	f	f
Seagreen Alpha	EMODnet	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Offshore Wind Farm	Under Construction										314.53	296.10	305.51	f	f	f	С	С	С	g	f	g	f	f
Seagreen Bravo	EMODnet	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Offshore Wind Farm	Under Construction										301.98	289.15	296.25	f	f	f	С	С	С	g	f	g	f	f
Methil (Samsung) Demo	EMODnet	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Offshore Wind Farm	Operational										335.34	297.94	315.76	f	f	f	g	С	а	g	f	f	f	f



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				c	onstructio	on Period	(red outline	denotes th	e offsho	re constru	iction peri	iod for H	lornsea Fou	)													
Project	Data Source(s)	Data Confidence Assessment	Notes	Status of Development	2019	2021	2022	2024	2025	2026 2027	2028	2029	2030	Distance from the Hornsea Four Array Area (km)	Distance from the Hornsea Four Offshore Export Cable Corridor (km)	Distance from the Hornsea Four offshore HVAC Booster Station Area (km)	Marine Geology, Oceanography and Physical Processes	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammals	Offshore and Intertidal Ornithology	Commercial Fisheries	Shipping and Navigation	Aviation and Radar	Marine Archaeology	Seascape and Visual Resources	Infrastructure and Other Users
Methil Demonstration Project - 2B Energy	EMODnet	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Offshore Wind Farm	Planned										333.87	296.39	314.28	е	е	g	g	е	g	g	f	е	f	е
EOWDC	EMODnet	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Offshore Wind Farm	Operational										381.71	369.94	377.06	f	f	f	g	С	а	g	f	f	f	f
Hywind 2 Demonstration	EMODnet	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Offshore Wind Farm	Operational										381.06	379.01	383.20	f	f	f	g	С	а	g	f	f	f	f
Moray West	EMODnet	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Offshore Wind Farm	Consented										492.64	479.44	487.49	е	f	f	С	С	С	g	f	е	f	f
Beatrice	EMODnet	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Offshore Wind Farm	Operational										503.16	490.44	498.32	f	f	f	С	С	С	g	f	g	f	f
Moray East	EMODnet	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Offshore Wind Farm	Under Construction										489.27	479.28	486.11	е	f	f	С	С	С	g	f	е	f	f
Erebus	4cOffshore	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.	Offshore Wind Farm	Pre-planning Application										532.00	459.82	490.59	f	f	f	g	d	f	f	f	g	f	f
Valorous	4cOffshrore	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.	Offshore Wind Farm	Pre-planning Application										539.75	468.79	498.95	f	f	f	g	d	f	f	f	g	f	f
South Pembrokeshire Demonstration Zone	The Crown Estate	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.	Wave Energy Lease Area	Pre-planning Application										500.94	430.87	460.66	е	е	g	g	е	g	g	f	е	f	е
Bardsey Sound	The Crown Estate	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.	Tidal Energy Lease Area	Pre-planning Application										411.92	334.00	367.72	е	е	g	g	е	g	g	f	е	f	е
Fair Head	The Crown Estate	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.	Tidal Energy Lease Area	Pre-planning Application										470.50	403.47	434.30	е	е	g	g	е	g	g	f	е	f	е
Holyhead Deep (Minesto)	The Crown Estate	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.	Tidal Energy Lease Area	Pre-planning Application										392.52	313.09	347.94	е	е	g	g	е	f	g	f	е	f	е
Holyhead Deep 0.5MW Site (Minesto)	The Crown Estate	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.	Tidal Energy Lease Area	Operational										393.40	313.97	348.80	е	е	g	g	е	f	g	f	е	f	е
Perpetuus Tidal Energy Centre (PTEC)	The Crown Estate	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.	Tidal Energy Lease Area	Consented										420.73	394.11	405.80	е	е	g	g	е	g	g	f	е	f	е
Portland Bill	The Crown Estate	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.	Tidal Energy Lease Area	Pre-planning Application										463.24	421.52	439.02	е	е	g	g	е	g	g	f	е	f	е
Ramsey Sound	The Crown Estate	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.	Tidal Energy Lease Area	Active										493.00	419.17	450.75	f	f	f	g	d	а	а	f	f	f	f
SeaGen Strangford Lough	The Crown Estate	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.	Tidal Energy Lease Area	Active										426.52	351.65	385.43	f	f	f	g	d	а	а	f	f	f	f
Strangford Lough	The Crown Estate	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.	Tidal Energy Lease Area	Active										426.52	351.65	385.43	f	f	f	g	d	а	а	f	f	f	f
Strangford Lough Array	The Crown Estate	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.	Tidal Energy Lease Area	Pre-planning Application										426.52	351.65	385.43	е	е	g	g	е	g	g	f	е	f	е
Torr Head	The Crown Estate	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.	Tidal Energy Lease Area	Consented										466.57	399.38	430.27	е	е	g	g	е	g	g	f	е	f	е
West Anglesey Demonstration Zone (Morlais)	The Crown Estate	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.	Tidal Energy Lease Area	In planning										389.18	309.76	344.57	е	е	g	g	е	f	g	f	f	f	е
Netherlands																											
2019 Tender I	EMODnet	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Offshore Wind Farm	Planned										224.52	237.63	293.83	е	е	g	g	е	g	g	f	е	f	е



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					Constructio	n Period (	red outline d	lenotes the	offshore	constructi	ion perio	d for Ho	ornsea Four)														
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Borssele II	EMODnet	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Offshore Wind Farm	Under Construction										280.89	281.37	316.55	f	f	f	С	е	С	g	f	g	f	f
Buitengaats	EMODnet	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Offshore Wind Farm	Authorised										293.62	308.66	364.44	е	е	g	g	е	g	g	f	е	f	е
Egmond aan Zee	EMODnet	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Offshore Wind Farm	Production										248.23	254.54	306.26	f	f	f	g	е	а	g	f	f	f	f
Gemini	EMODnet	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Offshore Wind Farm	Production										282.23	297.22	353.07	f	f	f	g	е	а	g	f	f	f	f
Luchterduinen	EMODnet	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Offshore Wind Farm	Operational										254.49	259.10	308.28	f	f	f	g	е	а	g	f	f	f	f
Prinses Amalia	EMODnet	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Offshore Wind Farm	Production				П						242.33	248.06	299.01	f	f	f	g	е	а	g	f	f	f	f
Scheveningen Buiten	EMODnet	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Offshore Wind Farm	Authorised										243.55	252.27	300.87	е	е	g	g	е	g	g	f	е	f	е
ZeeEnergie	EMODnet	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Offshore Wind Farm	Authorised										273.20	292.49	352.23	е	е	g	g	е	g	g	f	е	f	е
Denmark				<u> </u>																							
Horns Rev 1	EMODnet	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Offshore Wind Farm	Production				П						428.76	447.68	498.84	f	f	f	g	е	а	g	f	f	f	f
Horns Rev 2	EMODnet	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Offshore Wind Farm	Production				П						417.00	435.75	485.84	f	f	f	g	е	а	g	f	f	f	f
Belgium																											
Belwind I	EMODnet	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Offshore Wind Farm	Production		Ш								273.66	274.06	307.08	f	f	f	f	е	а	f	f	f	f	f
Norther	EMODnet	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Offshore Wind Farm	Authorised										292.91	293.35	327.42	f	f	f	g	е	а	g	f	f	f	f
Northwind	EMODnet	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Offshore Wind Farm	Production										283.87	284.30	317.89	f	f	f	g	е	а	g	f	f	f	f
Rentel	EMODnet	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Offshore Wind Farm	Under Construction										286.34	286.77	320.50	f	f	f	g	е	а	g	f	f	f	f
Seastar	EMODnet	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Offshore Wind Farm	Authorised										279.57	279.98	313.34	е	е	g	g	е	g	g	f	е	f	е
Thorntonbank	EMODnet	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Offshore Wind Farm	Production										283.56	288.05	323.70	f	f	f	g	е	а	g	f	f	f	f
THV Mermaid	EMODnet	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Offshore Wind Farm	Authorised										268.65	269.03	301.27	f	f	f	С	е	С	g	f	g	f	f
France	_														1												
Cote d'Albatre	EMODnet	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Offshore Wind Farm	Authorised										451.87	448.42	454.52	f	f	g	g	е	g	g	f	е	f	е
Germany						1 1									1												
Alpha Ventus	EMODnet	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Offshore Wind Farm	Operational										333.44	348.37	404.29	f	f	f	g	е	а	g	f	f	f	f
Amrumbank West	EMODnet	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Offshore Wind Farm	Production										402.58	418.52	472.51	f	f	f	g	е	а	g	f	f	f	f
Bard Offshore 1	EMODnet	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Offshore Wind Farm	Production										290.67	306.35	361.04	f	f	f	g	е	а	9	f	f	f	f



	,
	In Planning/Consenting/Pre-Construction
	Construction
	Operation and Maintenance
	Decommissioning

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	Potential cumulative impact exists: Screened in to assessment.
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е	Low data confidence: Screened out of assessment.
f	No physical effect-receptor overlap: Screened out of assessment.
0	No temporal overlan: Screened out of accessment

					Constru	ction Period (re	d outline	denotes the	offshore	construc	ction period	d for Ho	ornsea Four)														
Project	Data Source(s)	Data Confidence Assessment	Notes	Status of Development	2019	2020	2022	2024	2025	2027	2028	2029	2030	Distance from the Hornsea Four Array Area (km)	Distance from the Hornsea Four Offshore Export Cable Corridor (km)	Distance from the Hornsea Four offshore HVAC Booster Station Area (km)	Marine Geology, Oceanography and Physical Processes	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammals	Offshore and Intertidal Ornithology	Commercial Fisheries	Shipping and Navigation	Aviation and Radar	Marine Archaeology	Seascape and Visual Resources	Infrastructure and Other Users
Borkum Riffgrund I	EMODnet	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Offshore Wind Farm	Production										326.91	341.75	397.77	f	f	f	g	е	а	g	f	f	f	f
Borkum Riffgrund II	EMODnet	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Offshore Wind Farm	Authorised										322.48	337.29	393.34	f	f	f	С	е	С	g	f	g	f	f
Borkum Riffgrund West	EMODnet	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Offshore Wind Farm	Authorised										306.07	321.12	376.89	е	е	g	С	е	g	g	f	е	f	е
Borkum Riffgrund West II	EMODnet	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Offshore Wind Farm	Planned										299.76	314.75	370.59	е	е	g	g	е	g	g	f	g	f	е
Butendiek	EMODnet	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Offshore Wind Farm	Production								Ш		416.86	433.48	484.82	f	f	f	g	е	а	g	f	f	f	f
DanTysk	EMODnet	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Offshore Wind Farm	Operational										383.15	399.91	450.44	f	f	f	g	е	а	g	f	f	f	f
Delta Nordsee 1	EMODnet	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Offshore Wind Farm	Authorised										334.33	353.64	413.25	е	е	g	g	е	g	g	f	е	f	е
Demonstrationsprojekt Albatri 1	EMODnet	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Offshore Wind Farm	Authorised										309.58	329.04	385.79	е	е	g	g	е	g	g	f	е	f	е
Deutsche Bucht Pilot	EMODnet	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Offshore Wind Farm	Planned										269.73	289.19	347.44	f	f	f	С	е	С	g	f	g	f	f
EnBW He Dreiht	EMODnet	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Offshore Wind Farm	Authorised										295.31	314.77	372.95	е	е	g	g	е	g	g	f	е	f	е
EnBW Hohe See	EMODnet	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Offshore Wind Farm	Authorised										312.93	328.94	382.81	е	е	g	g	е	g	g	f	е	f	е
EnBW He Dreiht (complementary application)	EMODnet	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Offshore Wind Farm	Authorised										303.52	319.25	373.82	е	е	g	g	е	g	g	f	е	f	е
GlobalTech I	EMODnet	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Offshore Wind Farm	Authorised								$\perp$		303.52	319.25	373.82	f	f	f	g	е	а	g	f	f	f	f
Gode Wind I	EMODnet	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Offshore Wind Farm	Operational										347.12	366.44	426.05	f	f	f	g	е	а	g	f	f	f	f
Gode Wind II	EMODnet	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Offshore Wind Farm	Production				Ш						347.00	366.33	425.83	f	f	f	g	е	а	g	f	f	f	f
Gode Wind III	EMODnet	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Offshore Wind Farm	Authorised				Ш						352.21	371.50	431.21	f	f	f	g	е	а	g	f	f	f	f
H2-20	EMODnet	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Offshore Wind Farm	Planned										238.15	252.96	283.83	е	е	g	g	е	g	g	f	е	f	е
Kaikas	EMODnet	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Offshore Wind Farm	Authorised										298.12	317.56	374.03	е	е	g	9	е	g	g	f	е	f	е
Kaskasi I	EMODnet	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Offshore Wind Farm	Planned										401.62	421.09	478.85	е	е	g	g	е	g	g	f	е	f	е
Kaskasi II	EMODnet	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Offshore Wind Farm	Planned										402.39	418.30	472.37	е	е	g	g	е	g	g	f	е	f	е
Meerwind Sued/Ost	EMODnet	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Offshore Wind Farm	Operational										401.62	417.28	471.96	f	f	f	g	е	а	g	f	f	f	f
Merkur Offshore	EMODnet	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Offshore Wind Farm	Under Construction										327.48	342.42	398.32	е	е	g	g	е	g	9	f	е	f	е



In Planning/Consenting/Pre-Construction
Construction
Operation and Maintenance
Decommissioning

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d	No conceptual effect-receptor pathway: Screened out of assessment.											
е	Low data confidence: Screened out of assessment.											
f	No physical effect-receptor overlap: Screened out of assessment.											
_	No temporal available Reviewed aut of secondment											

					Constru	uction Period	red outlin	ne denot	tes the offs	hore co	nstruction p	period for	r Hornsea	Four)														
Project	Data Source(s)	Data Confidence Assessment	Notes	Status of Development	2019	2020	2022	2023	2024	2026	2027	2029	2030	2031-2050	Distance from the Hornsea Four Array Area (km)	Distance from the Hornsea Four Offshore Export Cable Corridor (km)	Distance from the Hornsea Four offshore HVAC Booster Station Area (km)	Marine Geology, Oceanography and Physical Processes	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammals	Offshore and Intertidal Ornithology	Commercial Fisheries	Shipping and Navigation	Aviation and Radar	Marine Archaeology	Seascape and Visual Resources	Infrastructure and Other Users
Noerdlicher Grund	EMODnet	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Offshore Wind Farm	Authorised											358.12	377.32	430.80	е	е	g	g	е	g	g	f	е	f	е
Noerdlicher Grund Teil Sandbank	EMODnet	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Offshore Wind Farm	Authorised											358.80	377.94	430.87	е	е	g	g	е	g	g	f	е	f	е
Nordergrande	EMODnet	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Offshore Wind Farm	Production											437.05	451.68	507.93	f	f	f	g	е	а	g	f	f	f	f
Nordpassage	EMODnet	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Offshore Wind Farm	Planned											375.09	394.07	445.84	е	е	g	g	е	g	g	f	е	f	е
Nordsee One Offshore	EMODnet	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Offshore Wind Farm	Under Construction				⊥							343.71	358.57	414.57	f	f	f	g	е	а	g	f	f	f	f
Nordsee Ost	EMODnet	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Offshore Wind Farm	Production											401.80	417.56	472.01	f	f	f	g	е	а	g	f	f	f	f
Nordsee Three	EMODnet	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Offshore Wind Farm	Authorised											339.13	358.47	417.97	е	е	g	g	е	g	g	f	е	f	е
Nordsee Two	EMODnet	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Offshore Wind Farm	Authorised											334.30	353.63	413.14	е	е	g	g	е	g	g	f	е	f	е
Notos	EMODnet	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Offshore Wind Farm	Planned											301.70	321.16	378.20	е	е	g	g	е	g	g	f	е	f	е
OWP Albatross 1	EMODnet	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Offshore Wind Farm	Authorised											301.46	320.92	377.94	е	е	g	g	е	g	g	f	е	f	е
OWP Delta Nordsee 2	EMODnet	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Offshore Wind Farm	Authorised											334.32	353.64	413.21	е	е	g	g	е	g	g	f	е	f	е
OWP West	EMODnet	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Offshore Wind Farm	Authorised											301.71	316.62	372.56	е	е	g	g	е	g	g	f	е	f	е
Riffgat	EMODnet	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Offshore Wind Farm	Production											327.11	341.02	397.80	f	f	f	g	е	а	g	f	f	f	f
Sandbank	EMODnet	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Offshore Wind Farm	Authorised											366.28	383.21	432.34	е	е	g	g	е	g	g	f	е	f	е
Sandbank Extension	EMODnet	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Offshore Wind Farm	Planned											365.38	382.23	432.06	е	е	g	g	е	g	g	f	е	f	е
Sandbank Plus (Sandbank Phase 2)	EMODnet	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Offshore Wind Farm	Authorised											360.43	379.44	431.41	е	е	g	g	е	g	g	f	е	f	е
Sea Wind I	EMODnet	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Offshore Wind Farm	Planned											310.16	329.62	386.43	е	е	g	g	е	g	g	f	е	f	е
Sea Wind II	EMODnet	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Offshore Wind Farm	Planned											302.17	321.63	378.72	е	е	g	g	е	g	g	f	е	f	е
Trianel Borkum II	EMODnet	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Offshore Wind Farm	Authorised											324.20	339.29	394.99	е	е	g	g	е	g	g	f	е	f	е
Trianel Windpark Borkum - Phase 1	EMODnet	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Offshore Wind Farm	Production											321.50	336.60	392.29	f	f	f	g	е	а	g	f	f	f	f
Veja Mate	EMODnet	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Offshore Wind Farm	Authorised											283.31	298.94	353.75	f	f	f	g	е	а	g	f	f	f	f
Ireland		Link Third parks project details could be detailed in															1											
Dublin Array	EMODnet	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.	Offshore Wind Farm	In Planning											460.87	384.83	419.84	f	f	f	g	е	а	g	f	f	f	f



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In Planning/Consenting/Pre-Construction	c	Potential cumulative impact exists: Screened in to assessment.
Construction	d	No conceptual effect-receptor pathway: Screened out of assessment.
Operation and Maintenance	e	Low data confidence: Screened out of assessment.
Decommissioning	f	No physical effect-receptor overlap: Screened out of assessment.
	g	No temporal overlap: Screened out of assessment.

					Construc	tion Period	(red outlin	ne denote	s the offs	shore co	onstruction p	period for	Hornsea	Four)														
Project	Data Source(s)	Data Confidence Assessment	Notes	Status of Development	2019	2020 2021	2022	2023	2025	2026	2027	2029	2030	2031-2050	Distance from the Hornsea Four Array Area (km)	Distance from the Hornsea Four Offshore Export Cable Corridor (km)	Distance from the Hornsea Four offshore HVAC Booster Station Area (km)	Marine Geology, Oceanography and Physical Processes	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammals	Offshore and Intertidal Ornithology	Commercial Fisheries	Shipping and Navigation	Aviation and Radar	Marine Archaeology	Seascape and Visual Resources	Infrastructure and Other Users
Arklow Bank	EMODnet	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Offshore Wind Farm	Production											474.23	397.82	431.50	f	f	f	g	е	а	g	f	f	f	f
Codling Bank	EMODnet	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Offshore Wind Farm	Authorised											455.54	379.18	413.09	е	е	g	g	е	g	g	f	е	f	е
Oriel Wind Farm	EMODnet	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Offshore Wind Farm	Planned											455.98	382.19	416.17	е	е	g	g	е	g	g	f	е	f	е

#### Volume A4, Annex 5.3: Offshore Cumulative Effects: Assessment Matrices - Carbon Capture Usage and Storage



	In Planning/Consenting/Pre-Co Construction Operation and Maintenance Decommissioning	onstruction			Constructio	n Period (	red outline	denotes t	the offshor	re constru	ction perioc	for Horns	ea Four)	a b c d d e		Include Part of the baseline but has an	Po No co	t and is therefi tential cumula nceptual effec Low data o physical effect		I relevant to ists: Screen hway: Scree creened out dap: Screen	the cumulative red in to asse ened out of as of assessme ed out of ass	e impact asses essment. essessment. essment.			ssessment.		
Project	Data Source(s)	Data Confidence Assessment	Notes	Status of Development	2019	2021	2022	2024	2025	2026	2028	2029	2031-2050	Distance from the Hornsea Four Array Area (km)	Distance from the Hornsea Four Offshore Export Cable Corridor (km)		Marine Geology, Oceanography and Physical Processes	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammals	Offshore and Intertidal Ornithology	Commercial Fisheries	Shipping and Navigation	Aviation and Radar	Marine Archaeology	Seascape and Visual Resources	Infrastructure and Other Users
United Kingdom																											
Endurance Carbon Capture and Storgage Area	The Crown Estate	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'.	Carbon Capture and Storage Lease Area for Lease	In planning										0.00	2.15	18.78	С	С	С	С	е	С	С	е	С	е	С

#### Volume A4, Annex 5.3: Offshore Cumulative Effects: Assessment Matrices - Commercial Fisheries



														a				e topic baselir									
				7										b	Part	of the baseline but has an o							sessment: S	creened in to	o assessmer	nt.	
	In Planning/Consenting/Pre-C	onstruction		1										C				otential cumu									
	Construction			1										d			No c	onceptual effe									
	Operation and Maintenance													e							ut of assessi						
	Decommissioning			1										İ			NO	physical effe									
					Constru	CUON PENOU	(reu outii	ne denot	es une on	SHUTE COL	ารเก็นตะแบ	on penou i	UI NUIIISEA	9				No temp	orai overiap:	Screenea o	ut of assessi	nent.					
							<del>`</del>	_	Farra			_															
Project	Data Source(s)	Data Confidence Assessment	Notes	Status of Development	2019	2021	2022	2024	2025	2026	2027 2028	2029	2030	Distance from the Hornsea Four Array Area (km)	Distance from the Hornsea Four Offshore Export Cable Corridor (km)	Distance from the Hornsea Four offshore HVAC Booster Station Area (km)	Marine Geology, Oceanography and Physical Processes	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammals	Offshore and Intertidal Ornithology	Commercial Fisheries	Shipping and Navigation	Aviation and Radar	Marine Archaeology	Seascape and Visual Resources	Infrastructure and Other Users
United Kingdom																			•	•						-	
Fishing Rights	Industry information; Cefas	High - Third party details published in the public domain and confirmed as being 'accurate' by Cefas.												N/A	N/A	N/A	d	f	а	а	а	а	a	d	а	f	а
Aquaculture	Industry information; Cefas	public domain and confirmed as being	The majority of UK finfish aquaculture is located in Scotland, but it is increasing in England and Wales. Shellfish culture is more evenly spread aroung the UK.											>200	>200	>200	d	f	f	а	а	а	а	d	а	f	а



																a	D	Included art of the baseline but has an	l as part of the								assassmant	•	
	In Planning/Cons	enting/Pre-Construction		1												c	F	art or the pascille pat has all					ened in to as:		ooomon. 30	Tonica III (U			
	Construction			†												d							eened out of						
	Operation and Ma	nintenance		1												е				Low data	confidence:	Screened or	ut of assessm	ent.					
	Decommissioning	1		]												f			No	•			ened out of as						
				_												g				No tempo	oral overlap:	Screened ou	ıt of assessm	ent.					
					Cons	truction F	Period (red	l outline	denotes (	the offsh	ore constr	uction p	eriod for	Hornsea	Four)	P. Landon II.	Distance from the	Distance from the	ogy, d Physical	dal Ecology	h Ecology	mals	tertidal gy	sheries	avigation	Radar	sology	d Visual ces	Other Users
Project	Data Source(s)	Data Confidence Assessment	Notes	Status of Development	2019	2020	2021	2023	2024	2025	2026	2028	2029	2030	2031-205	Distance from the Hornsea Four Array Area (km)	Hornsea Four Offshore Export Cable Corridor (km)	Hornsea Four offshore HVAC Booster Station Area (km)	Marine Geol Oceanography an Processe	enthic and Interti	Fish and Shellfis	Marine Mam	Offshore and Ir Omitholo	Commercial Fi	Shipping and Na	Aviation and	Marine Archa	Seascape and Resource	frastructure and (
United Kingdom																													<u>=</u>
Viking Link	Viking Link	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Interconnector	Under construction												1.98	4.04	42.23	f	С	С	С	d	С	С	d	С	d	С
Dogger Bank A Export Cables	The Crown Estate	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.	Wind Farm Export	Consented												28.88	0.00	9.16	С	С	С	С	d	С	d	d	С	d	С
Dogger Bank B Export Cables	The Crown Estate	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.	Wind Farm Export	Consented												28.88	0.00	9.16	С	С	С	С	d	С	d	d	С	d	С
Scotland England Green Link 2 (SEGL2)	National Grid Electricity Transmission (NGET)	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Interconnector	Pre-planning application												53.53	0.15	16.12	С	С	С	С	d	С	d	d	С	d	С
Hornsea Project Two Export Cables	The Crown Estate	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.	Wind Farm Export	Consented												9.30	13.67	54.14	f	С	С	С	d	С	d	d	С	d	С
Hornsea Project One Export Cables	The Crown Estate	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.		Operational												21.80	27.15	54.22	f	d	d	g	d	С	g	d	f	d	f
Dana Petroleum Platypus	Dana Petroleum	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Oil and Gas Pipeline	In planning												17.01	0.00	20.56	С	С	С	С	d	С	d	d	С	d	С
Westermost Rough Export Cables	The Crown Estate	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.	Wind Farm Export	Active												68.94	26.72	32.51	а	f	a	g	d	a	g	d	g	d	а
Humber Gateway Export Cables	The Crown Estate	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.	Wind Farm Export	Active												71.25	42.96	44.78	а	f	a	g	d	а	g	d	g	d	а
Langeled	EMODnet	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Pipeline operated by GASSCO AS	In Service												31.32	0.00	0.00	a	a	a	g	d	a	a	d	g	d	а
TGN Northern Europe	Kis Orca	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Telecommunications Cable	In Service												43.61	14.36	27.47	a	a	a	g	d	а	a	d	g	d	a



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In Planning/Consenting/Pre-Construction		С	Potential cumulative impact exists: Screened in to assessment.
Construction		d	No conceptual effect-receptor pathway: Screened out of assessment.
Operation and Maintenance		е	Low data confidence: Screened out of assessment.
Decommissioning		f	No physical effect-receptor overlap: Screened out of assessment.
		g	No temporal overlap: Screened out of assessment.
	Construction Period (red outline denotes the offshore construction period for Hornsea Four)		

					Cons	truction I	Pariod (re	ed outli	ne deno	toe the	offshor	re constru	uction	period fo	Hornea	Four)	g				No tempo	oral overlap:	Screened or	it of assessm	ent.					
Project	Data Source(s	) Data Confidence Assessment	Notes	Status of Development		2020		2022	2023		2025	2026	7707	2020	2030	2031-2050	Distance from the Hornsea Four Array Area (km)	Distance from the Hornsea Four Offshore Export Cable Corridor (km)	Distance from the Hornsea Four offshore HVAC Booster Station Area (km)	Marine Geology, Oceanography and Physical Processes	Benthic and Intertidal Ecology	Fish and Shelifish Ecology	Marine Mammals	Offshore and Intertidal Omithology	Commercial Fisheries	Shipping and Navigation	Aviation and Radar	Marine Archaeology	Seascape and Visual Resources	Infrastructure and Other Users
UK Germany 6	Kis Orca	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Telecommunications Cable	In Service													39.07	17.32	32.02	a	f	а	g	d	a	а	d	g	d	а
AMETHYST A2D TO EASINGTON	EAB	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	PERENCO	ACTIVE													51.11	2.82	51.67	a	f	a	g	d	a	g	d	g	d	a
AMETHYST B1D TO AMETHYST A2D	EAB	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	PERENCO	ACTIVE													51.04	10.58	64.95	а	f	a	g	d	a	g	d	g	d	а
AMETHYST C1D TO AMETHYST A1D	EAB	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	PERENCO	ACTIVE													54.67	2.79	51.66	a	f	а	g	d	а	g	d	g	d	а
ANN XM TO LOGGS PR	EAB	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	SPIRIT ENERGY	ACTIVE													53.78	2.82	57.76	a	f	a	g	d	a	g	d	g	d	a
ANNABEL TO AUDREY A	EAB	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	SPIRIT ENERGY	ACTIVE													51.40	2.82	57.76	g	g	g	g	g	g	g	d	g	d	е
ANNABEL WELLS 1 & 2 TO ANNABEL MANIFOLD	EAB	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	SPIRIT ENERGY	ACTIVE				ı									51.37	0.73	44.44	g	g	g	g	g	g	g	d	g	d	е
APOLLO TO MINERVA	EAB	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	PERENCO	ACTIVE					T								32.86	0.73	44.44	a	a	a	g	d	a	g	d	g	d	a
AUDREY B TO ANNABEL	EAB	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	SPIRIT ENERGY	ACTIVE													51.41	0.67	44.47	g	g	g	g	g	g	g	d	g	d	е
AUDREY TO ENSIGN METHANOL LINE	EAB	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	SPIRIT ENERGY	ACTIVE													54.49	0.90	32.32	a	f	а	g	d	а	g	d	g	d	а
AUDREY XW TO ANN XM	EAB	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	SPIRIT ENERGY	ACTIVE													53.74	0.93	40.23	g	g	g	g	g	g	g	d	g	d	е



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In Planning/Consenting/Pre-Construction		С	Potential cumulative impact exists: Screened in to assessment.
Construction		d	No conceptual effect-receptor pathway: Screened out of assessment.
Operation and Maintenance		е	Low data confidence: Screened out of assessment.
Decommissioning		f	No physical effect-receptor overlap: Screened out of assessment.
		g	No temporal overlap: Screened out of assessment.
	Construction Decid and audion denotes the effet on a section time and for House Found		

					Cons	truction	Period (	red out	line den	otes the o	offshore	constru	ction p	eriod fo	r Hornse	a Four)	9				no tompo	orar overrap. C								
Project	Data Source(s	) Data Confidence Assessment	Notes	Status of Development	2019	2020	2021	2022	2023	2024	2025	2027	2028	2029	2030	2031-2050	Distance from the Hornsea Four Array Area (km)	Distance from the Hornsea Four Offshore Export Cable Corridor (km)	Distance from the Hornsea Four offshore HVAC Booster Station Area (km)	Marine Geology, Oceanography and Physical Processes	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammals	Offshore and Intertidal Ornithology	Commercial Fisheries	Shipping and Navigation	Aviation and Radar	Marine Archaeology	Seascape and Visual Resources	Infrastructure and Other Users
BABBAGE EXPORT	EAB	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	PREMIER	ACTIVE													4.46	0.88	20.55	а	a	а	g	d	a	g	d	g	d	а
BARQUE PB TO CLIPPER PT	EAB	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	SHELL	ACTIVE													44.57	2.66	53.68	а	f	а	g	d	a	g	d	g	d	f
BARQUE PL TO CLIPPER PM	EAB	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		ACTIVE													51.98	26.09	43.62	a	f	a	g	d	a	g	d	g	d	f
	EAB	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		ACTIVE													48.15	26.09	43.62	а	f	а	g	d	a	g	d	g	d	f
BOULTON H HM TO MURDOCH MD MEOH LINE	EAB	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	CONOCOPHILLIPS	ACTIVE													48.15	2.15	20.53	а	f	a	g	d	a	g	d	g	d	f
BOULTON H HM TO WATT	EAB	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	CONOCOPHILLIPS	ACTIVE													48.13	5.46	31.44	а	f	a	g	d	a	g	d	g	d	f
BREAGH 20INCH GAS PIPELINE - PART 1	EAB	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	SHELL	ACTIVE													55.47	25.49	82.43	а	f	a	g	d	a	g	d	g	d	f
BREAGH 3INCHMEG PIPELINE - PART 1	EAB	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	INEOS UK SNS	ACTIVE													55.47	6.46	26.50	а	f	a	g	d	a	g	d	g	d	f
BREAGH FIBRE OPTICE	EAB	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		ACTIVE													55.52	29.97	64.43	а	f	a	g	d	a	g	d	g	d	f
CAVENDISH EXPORT	EAB	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		ACTIVE													55.91	29.97	64.43	а	f	a	g	d	a	g	d	g	d	f
CAVENDISH FIBRE OPTIC	EAB	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		ACTIVE									Ī				43.03	29.97	64.44	а	f	а	g	d	a	g	d	g	d	f



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In Planning/Consenting/Pre-Construction	c	Potential cumulative impact exists: Screened in to assessment.
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Operation and Maintenance	e	Low data confidence: Screened out of assessment.
Decommissioning	f	No physical effect-receptor overlap: Screened out of assessment.
	<u></u>	No temporal overlap: Screened out of assessment.

					Cons	onstruction Period (red outline denotes the offshore construction period for Hornsea Four)										a Four)	9	no empiral oronap. Solutional data of adolesiment														
Project	Data Source(s	Data Confidence Assessment	Notes	Status of Developmen	2019	2020	2021	22022	2023	2005	2025	2026 2027	2028	2029	2030	2031-2050	Distance from the Hornsea Four Array Area (km)	Distance from the Hornsea Four Offshore Export Cable Corridor (km)	Distance from the Hornsea Four offshore HVAC Booster Station Area (km)	Marine Geology, Oceanography and Physical Processes	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammals	Offshore and Intertidal Ornithology	Commercial Fisheries	Shipping and Navigation	Aviation and Radar	Marine Archaeology	Seascape and Visual Resources	Infrastructure and Other Users		
CAVENDISH METHANOL SUPPLY LINE	EAB	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	SPIRIT ENERGY	ACTIVE													43.03	29.97	64.44	a	f	а	g	d	a	g	d	g	d	f		
CERES TO MERCURY EXPOR	EAB	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	PERENCO	ACTIVE													43.03	29.97	64.45	a	a	а	g	d	a	g	d	g	d	f		
CERES UMBILICAL	EAB	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		ACTIVE													40.89	29.97	64.45	a	a	а	g	d	a	g	d	g	d	f		
CLEETON CP TO DIMLINGTON	EAB	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		ACTIVE													40.84	18.02	64.23	а	а	а	g	d	а	g	d	g	d	f		
CLEETON CP TO RAVENSPURN A	EAB	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		ACTIVE													20.53	18.05	64.25	a	a	а	g	d	a	g	d	g	d	f		
CLEETON TO MINERVA	EAB	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	SHELL	ACTIVE													9.26	0.00	20.66	a	f	a	g	d	a	g	d	g	d	f		
CLEETON TO WHITTLE UMBILICAL	EAB	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	SHELL	ACTIVE													20.46	0.00	16.67	a	f	а	g	d	a	g	d	g	d	f		
CLIPPER PM TO BARQUE PL	EAB	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	SHELL	ACTIVE													20.46	0.00	16.67	a	f	а	g	d	a	g	d	g	d	f		
CLIPPER PM TO BARQUE PL	EAB	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		ACTIVE													51.95	2.43	9.01	a	f	а	g	d	a	g	d	g	d	f		
CYGNUS TO ETS GAS PIPELINE	EAB	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		NOT IN USE													51.98	2.43	8.99	g	g	g	g	g	g	g	d	g	d	е		
EASINGTON TO ROUGH	EAB	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		NOT IN USE													55.91	0.00	16.65	g	g	g	g	g	g	g	d	g	d	е		



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	Operation and Maintenance		е	Low data confidence: Screened out of assessment.
	Decommissioning		f	No physical effect-receptor overlap: Screened out of assessment.
			g	No temporal overlap: Screened out of assessment.
		Construction Deriod (red outline denotes the offshore construction period for Harness Four)		

					Const	truction I	Davied /v	ad autili	na dana	too the	offobor	e constru	otion v	oried fo	Цахиал	Four)	g				No temporal overlap: Screened out of assessment.										
Project	Data Source(s	) Data Confidence Assessment	Notes	Status of Development	2019	2020		2022	2023			2026		2029	2030	2031-2050	Distance from the Hornsea Four Array Area (km)	Distance from the Hornsea Four Offshore Export Cable Corridor (km)	Distance from the Hornsea Four offshore HVAC Booster Station Area (km)	Marine Geology, Oceanography and Physical Processes	Benthic and Intertidal Ecology	Fish and Shelifish Ecology	Marine Mammals	Offshore and Intertidal Ornithology	Commercial Fisheries	Shipping and Navigation	Aviation and Radar	Marine Archaeology	Seascape and Visual Resources	Infrastructure and Other Users	
ENSIGN CONTROL & CI	EAB	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	SPIRIT ENERGY	ACTIVE													27.28	0.00	13.26	g	g	g	g	g	g	g	d	g	d	е	
ENSIGN NPAI TO AUDREY WD GAS EXPORT	EAB	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	SPIRIT ENERGY	NOT IN USE													48.03	2.36	25.71	g	g	g	g	g	g	g	d	g	d	е	
ENSIGN PRODUCTION PIPELINE	EAB	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	SPIRIT ENERGY	ACTIVE													52.64	2.38	25.74	а	f	a	g	d	а	g	d	g	d	а	
ERIS TO MERCURY EXPORT	EAB	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	SPIRIT ENERGY	ACTIVE													54.49	20.32	59.13	a	f	a	g	d	а	g	d	g	d	а	
ERIS UMBILICAL	EAB	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	PERENCO	ACTIVE													52.64	20.32	59.12	а	а	a	g	d	а	g	d	g	d	а	
ESMOND TO BACTON	EAB	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	ВНР	ABANDONED													40.89	20.33	48.86	g	g	g	g	g	g	g	d	g	d	е	
ESMOND TO FORBES (PL255	EAB	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	ВНР	ABANDONED													43.96	42.39	84.67	g	g	g	g	g	g	g	d	g	d	е	
ESMOND TO FORBES (PL261	EAB	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	ВНР	ABANDONED													11.82	42.39	84.67	g	g	g	g	g	g	g	d	g	d	е	
ESMOND TO GORDON	EAB	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	ВНР	ABANDONED													49.54	42.43	84.73	g	g	g	g	g	g	g	d	g	d	е	
ESMOND TO GORDON BHP	EAB	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	PERENCO	ACTIVE													49.39	26.86	65.14	a	f	a	g	d	a	g	d	g	d	а	
GALAHAD TEE TO MALORY	EAB	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	PERENCO	ACTIVE													12.62	26.87	65.14	а	f	a	g	d	а	g	d	g	d	а	



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Operation and Maintenance		е	Low data confidence: Screened out of assessment.
Decommissioning		f	No physical effect-receptor overlap: Screened out of assessment.
		g	No temporal overlap: Screened out of assessment.
	A		

					Cons	truction	Period (	ed out	line den	otes the	e offsh	nore cons	structio	on perio	od for H	ornsea	Four)	<u>g</u>				NO temp	огаг очепар.	Screened 0	ut of assessn	ierit.					
Project	Data Source(s	) Data Confidence Assessment	Notes	Status of Developmen	t 5019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031-2050	Distance from the Hornsea Four Array Area (km)	Distance from the Hornsea Four Offshore Export Cable Corridor (km)	Distance from the Hornsea Four offshore HVAC Booster Station Area (km)	Marine Geology, Oceanography and Physical Processes	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammals	Offshore and Intertidal Omithology	Commercial Fisheries	Shipping and Navigation	Aviation and Radar	Marine Archaeology	Seascape and Visual Resources	Infrastructure and Other Users
GALAHAD TO LANCELOT TEE	EAB	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	ALPHA PETROLEUM	ACTIVE														12.62	43.27	85.89	a	a	a	g	d	а	g	d	g	d	a
GARROW EXPORT SPOOL	EAB	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	ALPHA PETROLEUM	ACTIVE														6.92	5.14	5.18	a	а	а	g	d	а	g	d	g	d	а
GARROW SERVICE SPOOL	EAB	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	ALPHA PETROLEUM	ACTIVE														6.92	5.10	5.14	a	a	а	g	d	a	g	d	g	d	а
GARROW TO KILMAR EXPORT SPOOL	EAB	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		ACTIVE														57.93	26.26	55.23	а	a	a	g	d	a	g	d	g	d	а
GARROW TO KILMAR SERVICE SPOOL	EAB	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	ALPHA PETROLEUM	ACTIVE														57.93	29.17	62.30	a	f	a	g	d	а	g	d	g	d	а
HELVELLYN PIPELINE	EAB	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	ALPHA PETROLEUM	ACTIVE														39.31	0.00	0.00	а	f	а	g	d	а	g	d	g	d	а
HELVELLYN SPOOL PIECE	EAB	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	PERENCO	ACTIVE														39.27	26.20	37.81	a	f	а	g	d	а	g	d	g	d	а
HOTON CONTROL	EAB	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		ACTIVE														21.29	29.65	59.53	a	f	а	g	d	а	g	d	g	d	а
HOTON PIPELINE	EAB	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	PREMIER	ACTIVE														21.29	26.28	37.95	a	f	а	g	d	а	g	d	g	d	а
HUNTER TO RITA UMBILICA	EAB	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		ACTIVE														51.57	4.93	12.09	a	f	a	g	d	а	g	d	g	d	а
HYDE TO WEST SOLE BRAVO	EAB	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		ACTIVE														25.36	5.05	12.22	a	a	a	g	d	а	g	d	g	d	а



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Operation and Maintenance		е	Low data confidence: Screened out of assessment.
Decommissioning		f	No physical effect-receptor overlap: Screened out of assessment.
		g	No temporal overlap: Screened out of assessment.
	Construction Deriod (red outline denotes the offshore construction period for Harness Four)		

					Const	ruction Per	riod (red	outline de	enotes the	offshore	constru	ction ne	riod for I	Hornsea	Four)	9				No tempo	orai overiap: 3	Screenea ou	of assessme	ent.					
Project	Data Source(s	Data Confidence Assessment	Notes	Status of Development			2022			2025		2028	2029	2030	2031-2050	Distance from the Hornsea Four Array Area (km)	Distance from the Hornsea Four Offshore Export Cable Corridor (km)	Distance from the Hornsea Four offshore HVAC Booster Station Area (km)	Marine Geology, Oceanography and Physical Processes	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammals	Offshore and Intertidal Omithology	Commercial Fisheries	Shipping and Navigation	Aviation and Radar	Marine Archaeology	Seascape and Visual Resources	Infrastructure and Other Users
JFE PRODUCTION	EAB	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	PREMIER	ACTIVE												0.00	8.08	16.68	a	a	a	g	d	a	g	d	g	d	а
JFE UMBILICAL	EAB	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		ACTIVE												0.00	8.10	16.68	a	а	a	g	d	a	g	d	g	d	а
JOHNSTON EXPORT	EAB	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	PREMIER	ACTIVE												0.00	8.13	16.68	a	a	a	g	d	a	g	d	g	d	а
JOHNSTON J5 EXPORT	EAB	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		ACTIVE												0.00	8.13	16.68	a	a	a	g	d	a	g	d	g	d	а
JOHNSTON J5 METHANOL	EAB	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		ACTIVE												0.00	37.86	90.86	a	a	a	g	d	a	g	d	g	d	а
JOHNSTON METHANOL	EAB	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	PREMIER	ACTIVE												0.00	37.86	90.86	a	a	a	g	d	a	g	d	g	d	а
JOHNSTON UMBILICAL	EAB	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	NEPTUNE	ACTIVE												0.00	52.69	108.37	g	g	g	g	g	g	g	d	g	d	е
JULIET TO PICKERILL A GAS PIPELINE	EAB	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		ACTIVE												50.81	52.80	108.47	g	g	g	g	g	g	g	d	g	d	е
JULIET TO PICKERILL A UMBILICAL	EAB	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		ACTIVE												50.81	52.80	108.47	a	a	a	g	d	a	g	d	g	d	а
KILMAR GAS EXPORT	EAB	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		ACTIVE												57.95	52.80	108.48	a	a	а	g	d	а	g	d	g	d	а
KILMAR SERVICE	EAB	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	ALPHA PETROLEUM	ACTIVE												12.62	29.39	45.75	a	a	a	g	d	а	g	d	g	d	а



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Operation and Maintenance		е	Low data confidence: Screened out of assessment.
Decommissioning		f	No physical effect-receptor overlap: Screened out of assessment.
	<u></u>	g	No temporal overlap: Screened out of assessment.
	Construction Period (red outline denotes the offshore construction period for Hornsea Four)		

																- \	9				No temp	oral overlap: 3	Screened ou	t of assessm	ent.					
					Cons	struction	Period (re	d outline	e denote:	s the of	tshore c	onstruct	tion per	iod for h	Hornsea	a Four)														
Project	Data Source(s)	Data Confidence Assessment	Notes	Status of Development	2019	2020	2021	2022	2023	2025	2026	2027	2028	2029	2030	2031-2050	Distance from the Hornsea Four Array Area (km)	Distance from the Hornsea Four Offshore Export Cable Corridor (km)	Distance from the Hornsea Four offshore HVAC Booster Station Area (km)	Marine Geology, Oceanography and Physical Processes	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammals	Offshore and Intertidal Ornithology	Commercial Fisheries	Shipping and Navigation	Aviation and Radar	Marine Archaeology	Seascape and Visual Resources	Infrastructure and Other Users
KILMAR TO KILMAR GAS EXPORT SPOOL	EAB	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		ACTIVE													12.62	29.43	44.77	a	a	a	g	d	a	g	d	g	d	a
KILMAR TO KILMAR SERVICE SPOOL	EAD	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		ACTIVE													12.62	23.94	35.38	a	f	а	g	d	а	g	d	g	d	а
KILMAR TO TRENT GAS EXPORT SPOOL	EAD	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	ALPHA PETROLEUM	ACTIVE													12.62	21.33	28.17	a	f	а	g	d	а	g	d	g	d	а
KILMAR TO TRENT SERVICE SPOOL		Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	PERENCO	ACTIVE													26.37	21.33	28.17	а	f	а	g	d	а	g	d	g	d	а
LANCELOT TO GALAHAD	EAD	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		ACTIVE					l								26.37	59.02	96.98	a	a	a	g	d	а	g	d	g	d	a
LANGELED PIPELINE	EAB	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		ACTIVE													49.39	59.02	96.98	а	f	a	g	d	а	g	d	g	d	а
LOGGS PR TO SATURN ND	EAD	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	PERENCO	ACTIVE													31.37	59.02	96.98	a	a	a	g	d	a	g	d	g	d	а
M1 TO MINERVA	EAB	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		NOT IN USE													46.41	21.32	28.14	g	g	g	g	g	g	g	d	g	d	е
M5 TO MINERVA	EAB	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		ACTIVE													32.83	44.94	88.19	a	f	а	g	d	a	g	d	g	d	а
MALORY TO GALAHAD TEE	EAD	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		ACTIVE													32.70	17.43	19.05	a	а	а	g	d	а	g	d	g	d	а
MERCURY TO NEPTUNE	EAD	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		PRECOMMISSION													49.54	17.43	19.05	g	g	g	g	g	g	g	d	g	d	е



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In Planning/Consenting/Pre-Construction		C	Potential cumulative impact exists: Screened in to assessment.
Construction		d	No conceptual effect-receptor pathway: Screened out of assessment.
Operation and Maintenance		e	Low data confidence: Screened out of assessment.
Decommissioning		f	No physical effect-receptor overlap: Screened out of assessment.
		g	No temporal overlap: Screened out of assessment.
	Construction Period (red outline denotes the offshore construction period for Hornsea Four)	•	

							D :			. ()				16	_	g	g				No tempo	oral overlap:	Screened ou	ıt of assessm	ent.					
					Cons	truction	Period (red	outline	denotes	s the offs	shore co	nstructi	on perio	d for Ho	ornsea Fo	ur)					> -									10
Project	Data Source(s)	Data Confidence Assessment	Notes	Status of Development	2019	2020	2021	2022	2024	2025	2026	2027	2028	2029	2030	2031-2050	Distance from the Hornsea Four Array Area (km)	Distance from the Hornsea Four Offshore Export Cable Corridor (km)	Distance from the Hornsea Four offshore HVAC Booster Station Area (km)	Marine Geology, Oceanography and Physical Processes	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammals	Offshore and Intertidal Ornithology	Commercial Fisheries	Shipping and Navigation	Aviation and Radar	Marine Archaeology	Seascape and Visual Resources	Infrastructure and Other Users
MIMAS TO SATURN	EAB	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	PERENCO	ACTIVE													57.93	50.29	104.11	a	a	а	g	d	a	g	d	g	d	a
MINERVA TO APOLLO UMBILICAL	EAB	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	PERENCO	ACTIVE													20.80	50.29	104.11	a	a	a	g	d	a	g	d	g	d	a
MINERVA TO CLEETON GAS EXPORT	EAB	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		ACTIVE													36.00	63.73	114.85	а	a	а	g	d	a	g	d	g	d	а
MINERVA TO CLEETON PIGGY	EAB	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	PERENCO	ACTIVE													32.87	63.73	114.85	а	a	а	g	d	a	g	d	g	d	а
MINERVA TO M1 UMBILICAL	EAB	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		NOT IN USE													20.21	22.83	24.79	а	a	a	g	d	a	g	d	g	d	a
MINERVA TO M5 UMBILICAL	EAB	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	CONOCOPHILLIPS	ACTIVE													20.20	23.52	25.80	a	f	a	g	d	a	g	d	g	d	а
MURDOCH MD TO BOULTON BM GAS LINE	EAB	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	CONOCOPHILLIPS	ACTIVE													32.80	64.82	117.76	a	f	a	g	d	a	g	d	g	d	a
MURDOCH MD TO BOULTON BM MEOH LINE	EAB	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	PERENCO	ACTIVE													32.68	64.83	117.78	a	a	a	g	d	a	g	d	g	d	a
NEPTUNE TO CLEETON PIPELINE	EAB	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		ACTIVE													46.70	64.83	117.78	a	a	a	g	d	a	g	d	g	d	a
NEPTUNE TO MERCURY	EAB	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		ACTIVE													46.70	22.75	24.69	a	f	a	g	d	a	g	d	g	d	a
NEWSHAM TO WEST SOLE	EAB	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		ACTIVE													19.97	49.38	84.22	g	g	g	g	g	g	g	d	g	d	е



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Decommissioning		f	No physical effect-receptor overlap: Screened out of assessment.
		g	No temporal overlap: Screened out of assessment.
	Construction Period (red outline denotes the offshore construction period for Hornsea Four)		

					Const	truction Pe	riod (red	outline	denotes t	the offsl	hore con	structi	on period	d for Hor	nsea E	our)	<u>g</u>				гио тетро	orai overiap: 3	screenea ou	t of assessm	ent.					
Project	Data Source(s	) Data Confidence Assessment	Notes	Status of Development	2019		2021		2024	2025	2026	2027	2028	2029	2030	2031-2050	Distance from the Hornsea Four Array Area (km)	Distance from the Hornsea Four Offshore Export Cable Corridor (km)	Distance from the Hornsea Four offshore HVAC Booster Station Area (km)	Marine Geology, Oceanography and Physical Processes	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammals	Offshore and Intertidal Omithology	Commercial Fisheries	Shipping and Navigation	Aviation and Radar	Marine Archaeology	Seascape and Visual Resources	Infrastructure and Other Users
PICKERALL A TO THEDDLETHORPE	EAB	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	PERENCO	ACTIVE													20.77	49.38	84.22	g	g	g	g	g	g	g	d	g	d	е
PICKERILL A TO PICKERILL B	EAB	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	PERENCO	ACTIVE													29.65	49.23	78.95	a	a	a	g	d	a	g	d	g	d	а
RAVENSPURN B SPUR	EAB	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	PERENCO	ACTIVE													50.84	49.23	78.95	a	a	a	g	d	a	g	d	g	d	а
RAVENSPURN C SPUR	EAB	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	PERENCO	ACTIVE													50.71	48.76	71.30	a	a	a	g	d	a	g	d	g	d	а
RAVENSPURN NORTH EXPORT LINE	EAB	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	PERENCO	ACTIVE													9.70	47.16	60.22	a	a	a	g	d	a	g	d	g	d	а
RAVENSPURN NORTH ST-2	EAB	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	PERENCO	ACTIVE													12.33	47.16	60.22	a	a	a	g	d	a	g	d	g	d	а
RAVENSPURN NORTH ST3 TO RNCP	EAB	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	PREMIER	ACTIVE													3.14	48.60	68.54	a	f	a	g	d	a	g	d	g	d	а
RITA TO HUNTER EXPORT	EAB	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	SPIRIT ENERGY	ABANDONED													3.13	41.61	54.20	g		g	g	g	g	g	d	g	d	е
ROSE CONTROL UMBILICAL	EAB	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		ABANDONED													3.09	37.42	40.24	g		g	g	g	g	g	d	g	d	е
ROSE PIPELINE	EAB	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	SPIRIT ENERGY	ACTIVE													51.57	54.65	107.61	а	f	а	g	d	а	g	d	g	d	а
ROUGH 47/3B IMPORT/EXPORT	EAB	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	SPIRIT ENERGY	ACTIVE													48.66	54.64	107.59	a	f	a	g	d	a	g	d	g	d	a



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Operation and Maintenance	е	Low data confidence: Screened out of assessment.
Decommissioning	f	No physical effect-receptor overlap: Screened out of assessment.
	g	No temporal overlap: Screened out of assessment.

					Cons	truction	Period (r	ed outlin	ne denote	es the offs	shore co	onstruct	tion per	iod for I	Hornsea	Four)	<u>g</u>				No tempo	orai overiap: 3	screenea ou	or assessme	ent.					
Project	Data Source(s	Data Confidence Assessment	Notes	Status of Development	2019	2020	2021	2022	2023	2025	2026	2027	2028	2029	2030	2031-2050	Distance from the Hornsea Four Array Area (km)	Distance from the Hornsea Four Offshore Export Cable Corridor (km)	Distance from the Hornsea Four offshore HVAC Booster Station Area (km)	Marine Geology, Oceanography and Physical Processes	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammals	Offshore and Intertidal Ornithology	Commercial Fisheries	Shipping and Navigation	Aviation and Radar	Marine Archaeology	Seascape and Visual Resources	Infrastructure and Other Users
ROUGH 47/8A EXPORT	EAB	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		ACTIVE													47.96	54.65	107.61	a	f	а	g	d	a	g	d	g	d	a
SATURN ND TO LOGGS PR	EAB	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	CONOCOPHILLIPS	ACTIVE													46.41	68.65	119.04	а	f	а	g	d	a	g	d	g	d	а
SATURN TO MIMAS	EAB	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		PRECOMMISSION													36.00	68.65	119.04	g	g	g	g	g	g	g	d	g	d	е
SCHOONER TO MURDOCH	EAB	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		NOT IN USE													37.59	52.44	96.83	g	g	g	g	g	g	g	d	g	d	е
SCHOONER TO MURDOCH	EAB	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		NOT IN USE													37.59	52.48	96.89	g	g	g	g	g	g	g	d	g	d	е
SEVEN SEAS - NEWSHAM	EAB	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		ACTIVE													26.80	52.48	96.89	а	f	a	g	d	а	g	d	g	d	a
SEVEN SEAS - NEWSHAM GAS EXPORT	EAB	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		ACTIVE													26.79	53.35	101.64	а	f	a	g	d	а	g	d	g	d	а
SHEARWATER TO BACTON (SEAL)	EAB	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		ACTIVE													0.00	53.35	101.64	a	a	a	g	d	а	g	d	g	d	а
THEDDLETHORPE TO	EAB	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		ACTIVE													12.67	59.60	114.28	а	f	a	g	d	а	g	d	g	d	а
THEDDLETHORPE TO MURDOCH MD MEOH LINE	EAB	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		ACTIVE													12.64	59.65	114.35	a	a	a	g	d	а	g	d	g	d	а
TOPAZ TO SCHOONER GAS EXPORT	EAB	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		ACTIVE													37.61	55.21	103.26	а	a	a	g	d	a	g	d	g	d	а



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Construction	d	No conceptual effect-receptor pathway: Screened out of assessment.
Operation and Maintenance	е	Low data confidence: Screened out of assessment.
Decommissioning	f	No physical effect-receptor overlap: Screened out of assessment.
	g	No temporal overlap: Screened out of assessment.

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Project	Data Source(s	Data Confidence Assessment	Notes	Status of Development	7000 Social Control Co	2022 solution		П		2027	3028	2029 2030	6a FOU	Distance from the Hornsea Four Array Area (km)	Distance from the Hornsea Four Offshore Export Cable Corridor (km)	Distance from the Hornsea Four offshore HVAC Booster Station Area (km)	Marine Geology, Oceanography and Physical Processes	Benthic and Intertidal Ecology	Fish and Shelifish Ecology	Marine Mammals	Offshore and Intertidal Ornithology	Commercial Fisheries	Shipping and Navigation	Aviation and Radar	Marine Archaeology	Seascape and Visual Resources	Infrastructure and Other Users
TOPAZ TO SCHOONER UMB	EAB	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	INEOS UK SNS	ACTIVE										37.50	55.21	103.26	g	g	g	g	g	g	æ	d	g	d	е
TYNE TO TRENT (PL1220/PL1221)	EAB	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	INEOS UK SNS	ACTIVE										26.42	39.57	47.44	g	g	g	g	g	g	g	d	g	d	е
WEST SOLE E TO WEST SOLE	EAB :	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	PERENCO	ACTIVE										56.40	57.61	57.61	g	g	g	g	g	g	g	d	g	d	е
WEST SOLE TO EASINGTON 16IN GAS LINE	EAB	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		NOT IN USE										31.97	57.62	57.62	g	g	g	g	g	g	g	d	g	d	е
WEST SOLE TO EASINGTON 24IN GAS LINE	EAB	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		ACTIVE										31.88	57.62	57.62	a	f	а	g	d	а	g	d	g	d	а
WEST SOLE WB TO WEST SOLE WC	EAB	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	PERENCO	ACTIVE										31.98	56.77	104.74	a	f	а	g	d	а	g	d	g	d	а
WHITTLE TO CLEETON	EAB	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	PERENCO	ACTIVE										29.47	56.77	104.74	a	f	а	g	d	a	g	d	g	d	а
WHITTLE TO WOLLASTON UMBILICAL	EAB	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	PERENCO	ACTIVE										20.36	72.97	126.16	а	а	а	g	d	а	g	d	g	d	а
WOLLASTON TO WHITTLE	EAB	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	PERENCO	ACTIVE										29.21	74.91	126.14	а	а	а	g	d	а	g	d	g	d	а
YORK METHANOL PIPELINE	EAB	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		ACTIVE										29.20	74.91	126.14	a	a	a	g	d	a	g	d	g	d	а
YORK PRODUCTION PIPELINE	EAB	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	SPIRIT ENERGY	ACTIVE										45.67	74.91	126.14	a	f	a	g	d	a	g	d	g	d	а



															1	a		Included	as part of the	topic baselir	ne and hence i	not considere	ed within the c	umulative imp	act assessm	ent.			
				_											Į.	b	Pa	art of the baseline but has an o	ngoing impac	t and is there	efore considere	ed relevant to	the cumulati	ve impact ass	essment: So	reened in to	assessmen	Ł	
	In Planning/Con	senting/Pre-Construction													7	С			Po	tential cumu	lative impact e	xists: Scree	ened in to ass	sessment.					
	Construction														1	d			No co	nceptual eff	ect-receptor pa	athway: Scr	eened out of	assessment.					
	Operation and N	laintenance													7	е				Low data	confidence:	Screened ou	ıt of assessm	ent.					
	Decommissionii	ng													f	f			No	physical effe	ct-receptor ov	erlap: Scree	ned out of as	sessment.					
				<u>-</u>											7	g				No temp	oral overlap: \$	Screened ou	t of assessm	ent.					
					Cons	truction Pe	riod (red	outline d	enotes th	e offshor	e constru	ıction pe	riod for H	lornsea	Four)														
Project	Data Source(s	) Data Confidence Assessment	Notes	Status of Development	2019	2020	2021	2023	2024	2025	2026	2028	2029	2030	2031-2050	Distance from the Hornsea Four Array Area (km)	Distance from the Hornsea Four Offshore Export Cable Corridor (km)	Distance from the Hornsea Four offshore HVAC Booster Station Area (km)	Marine Geology, Oceanography and Physical Processes	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammals	Offshore and Intertidal Omithology	Commercial Fisheries	Shipping and Navigation	Aviation and Radar	Marine Archaeology	Seascape and Visual Resources	Infrastructure and Other Users
YORK PRODUCTION PIPELINE	EAB	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		ACTIVE												45.67	74.92	126.17	a	f	a	g	d	a	g	d	g	d	а



	13CG -																											
														b		Part	Included of the baseline but has an o				e not consider lered relevant i					assessmen	t.	
	In Planning/Consenting/Pre-Con	struction												С							t exists: Scree							
	Construction Operation and Maintenance			-										d				No c			pathway: Scr : Screened or							
	Decommissioning			1										f				No			overlap: Scree							
	-			<del>_</del>	Canata	tia - Da	 outline der		-ff-h			ad faciliar		g					No temp	oral overlap:	Screened or	ut of assessn	nent.					
Project	Data Source(s)	Data Confidence Assessment	Notes	Status of Development		2020	2023	2024	2025	2027	2028	2029	2030		Distance from the ornsea Four Array Area (km)	Distance from the Hornsea Four Offshore Export Cable Corridor (km)	Distance from the Hornsea Four offshore HVAC Booster Station Area (km)	Marine Geology, Oceanography and Physical Processes	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammals (seismic surveys are considered separately)	Offshore and Intertidal Ornithology	Commercial Fisheries	Shipping and Navigation	Aviation and Radar	Marine Archaeology	Seascape and Visual Resources	Infrastructure and Other Users
United Kingdom																						_			1			
Johnston WHPS	EMODnet	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	HARBOUR ENERGY	OPERATIONAL											0.00	2.83	57.79	С	С	С	С	d	С	a	d	d	d	C
Johnston template/manifold	EMODnet	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	HARBOUR ENERGY	OPERATIONAL											0.00	2.86	51.65	С	С	С	С	d	С	а	d	d	d	С
Tolmount Platform	PREMIER	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	HARBOUR ENERGY	PRECOMMISSIO N											35.36	1.46	3.98	С	С	С	С	d	С	а	С	С	а	С
RAVENSPURN NORTH CCW	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	PERENCO	ACTIVE											2.95	0.89	45.02	а	а	а	а	d	g	а	а	a	а	a
RAVENSPURN NORTH CC	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	PERENCO	ACTIVE											3.05	0.92	44.94	а	а	а	а	d	g	а	а	а	а	а
RAVENSPURN NORTH ST2	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	PERENCO	ACTIVE											4.16	5.15	40.29	а	а	а	а	d	g	а	а	а	а	а
BABBAGE	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	NEO ENERGY	ACTIVE											4.31	2.50	53.72	а	а	а	а	d	g	а	а	a	а	а
GARROW NUI	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	ALPHA PETROLEUM	ACTIVE			П								6.96	27.17	43.64	а	а	а	а	d	g	а	а	a	а	a
RAVENSPURN NORTH ST3	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	PERENCO	ACTIVE			П								7.95	7.19	32.39	а	а	а	а	d	g	а	а	a	а	a
RAVENSPURN SOUTH A	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	PERENCO	ACTIVE			П								9.25	3.19	36.13	а	а	а	a	d	g	а	а	a	а	a
RAVENSPURN SOUTH B	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	PERENCO	ACTIVE											9.69	5.52	31.47	а	а	а	a	d	g	а	a	a	а	a
RAVENSPURN SOUTH C	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	PERENCO	ACTIVE			П								11.95	6.52	26.53	а	а	а	а	d	g	а	a	a	а	а
KILMAR NUI	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	ALPHA PETROLEUM	ACTIVE											12.65	30.01	64.45	а	а	а	а	d	g	а	а	а	а	а
CLEETON CC	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	PERENCO	ACTIVE											20.19	2.38	20.60	а	а	а	а	d	g	а	а	а	а	а
CLEETON WLTR	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	PERENCO	ACTIVE											20.20	2.43	20.56	а	а	а	а	d	g	а	а	а	a	а
CLEETON PQ	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	PERENCO	ACTIVE											20.24	2.39	20.55	а	а	а	а	d	g	а	а	а	а	a
NEPTUNE	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	PERENCO	ACTIVE											20.77	2.38	25.81	а	а	а	а	d	g	а	а	а	а	а
HOTON	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	PERENCO	ACTIVE											21.28	20.31	59.11	f	f	а	а	d	g	g	f	f	а	a
HYDE	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	PERENCO	ACTIVE											25.39	20.34	48.85	f	f	а	а	d	g	g	f	f	а	а
TRENT	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	PERENCO	ACTIVE											26.36	42.37	84.70	f	f	а	a	d	g	g	f	f	а	a



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	In Planning/Consenting/Pre-Construction	c	Potential cumulative impact exists: Screened in to assessment.
	Construction	d	No conceptual effect-receptor pathway: Screened out of assessment.
	Operation and Maintenance	e	Low data confidence: Screened out of assessment.
	Decommissioning	f	No physical effect-receptor overlap: Screened out of assessment.
-		a a	No temporal overlap: Screened out of assessment.

					Constr	truction F	eriod (re	ed outline	denotes	the offs!	hore con	structio	on period	for Horn	sea Four)														
Project	Data Source(s)	Data Confidence Assessment	Notes	Status of Development	2019	2020	2021	2022	2024	2025	2026	2027	2028	2029	2031-2050	Distance from the Hornsea Four Array Area (km)	Distance from the Hornsea Four Offshore Export Cable Corridor (km)	Distance from the Hornsea Four offshore HVAC Booster Station Area (km)	larine Geology, Oceanography and Physical Processes	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammals (seismic surveys are considered separately)	Offshore and Intertidal Ornithology	Commercial Fisheries	Shipping and Navigation	Aviation and Radar	Marine Archaeology	eascape and Visual Resources	nfrastructure and Other Users
WEST SOLE C	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	PERENCO	ACTIVE												27.02	32.86	89.88	9	g	g	а	е	g	g	f	f	a	e
WEST SOLE B	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	PERENCO	ACTIVE					Г							27.02	32.86	89.88	f	f	а	а	d	g	g	f	f	а	а
MINERVA	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	PERENCO	ACTIVE												28.97	48.44	107.69	f	f	f	а	f	f	f	f	f	а	е
WEST SOLE PP	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	PERENCO	ACTIVE												29.47	25.43	54.15	f	f	а	а	d	g	g	f	f	а	а
WEST SOLE A (8 LEG)	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	PERENCO	ACTIVE												31.97	28.36	58.50	f	f	а	а	d	g	g	f	f	а	а
WEST SOLE A (6 LEG)	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	PERENCO	ACTIVE					Т							32.70	8.12	16.67	а	а	а	а	d	g	а	а	а	а	а
WEST SOLE SP	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	PERENCO	ACTIVE					Т							32.78	29.72	61.21	f	f	а	а	d	g	g	f	f	а	а
48/9A MIMAS	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	CONOCOPHILLIPS	PRECOMMISSIO N	)											32.82	29.75	61.18	f	f	а	а	d	g	g	f	f	а	a
MIMAS MN	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	CONOCOPHILLIPS	ACTIVE					T							32.84	29.76	61.17	f	f	а	а	d	g	g	f	f	а	а
BARQUE PB	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	SHELL	ACTIVE					T							32.87	29.77	61.13	f	f	а	а	d	g	g	f	f	а	а
CAVENDISH	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	INEOS UK SNS	ACTIVE												35.38	45.15	103.18	g	g	g	а	9	g	g	f	f	а	е
YORK PLATFORM	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	SPIRIT ENERGY	ACTIVE					Г							37.86	41.41	87.16	f	f	а	а	d	g	g	f	f	а	а
SATURN ND	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	CONOCOPHILLIPS	ACTIVE					Т							42.52	60.42	113.94	f	f	а	а	d	g	g	f	f	а	а
BOULTON	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	CONOCOPHILLIPS	ACTIVE					T							44.30	48.53	95.85	f	f	а	а	d	g	g	f	f	а	a
ROUGH AP	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	SPIRIT ENERGY	ACTIVE					T							45.20	47.10	83.15	f	f	а	а	d	g	g	f	f	а	а
ROUGH AD	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	SPIRIT ENERGY	ACTIVE					T							45.29	61.70	96.14	f	f	а	а	d	g	g	f	f	а	а
ROUGH CD	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	SPIRIT ENERGY	ACTIVE												45.38	16.63	18.16	f	f	а	а	d	9	g	f	f	а	а
ROUGH BP	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	SPIRIT ENERGY	ACTIVE										T		45.47	50.62	102.34	9	g	g	а	е	9	g	f	f	а	е
ROUGH BD	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	SPIRIT ENERGY	ACTIVE												45.69	50.81	102.37	9	9	g	а	е	9	g	f	f	а	е
GALAHAD	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	PERENCO	ACTIVE										T		47.07	47.23	77.89	f	f	а	а	d	g	g	f	f	а	а
MALORY	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	PERENCO	ACTIVE					T					T		47.93	58.56	116.08	9	9	9	а	е	9	g	f	f	а	е



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	Construction	d	No conceptual effect-receptor pathway: Screened out of assessment.
	Operation and Maintenance	e	Low data confidence: Screened out of assessment.
	Decommissioning	f	No physical effect-receptor overlap: Screened out of assessment.
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					Cons	struction	Period (	(red outline	e denotes	the offs	hore cor	structio	n period	for Horn	sea Four	y						ar oronap.	Screenea ou							
Project	Data Source(s)	Data Confidence Assessment	Notes	Status of Development	19	2020	2021		2024	2025	2026	2027	2028	2029	2031-2050	Distance from the Hornsea Four Array / (km)	e Area Horns	stance from the sea Four Offshore ort Cable Corridor (km)	Distance from the Hornsea Four offshore HVAC Booster Station Area (km)	Marine Geology, Oceanography and Physical Processes	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammals (seismic surveys are considered se parately)	Offshore and Intertidal Ornithology	Commercial Fisheries	Shipping and Navigation	Aviation and Radar	Marine Archaeology	Seascape and Visual Resources	Infrastructure and Other Users
PICKERILL A	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	PERENCO	ACTIVE												47.96		22.98	25.13	f	f	a	a	d	g	g	f	f	а	a
AMETHYST A2D	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	PERENCO	ACTIVE												48.03		23.03	25.17	f	f	a	а	d	g	g	f	f	а	а
BARQUE PL	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	SHELL	ACTIVE												48.56		22.13	23.92	f	f	а	а	d	g	g	f	f	а	а
PICKERILL B	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	PERENCO	ACTIVE												48.65		22.21	23.99	f	f	а	а	d	g	g	f	f	а	а
BREAGH ALPHA	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	INEOS UK SNS	ACTIVE												48.76		22.30	24.07	f	f	а	а	d	g	g	f	f	а	а
AMETHYST B1D	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	PERENCO	ACTIVE												50.42		47.38	70.20	g	g	9	а	g	g	g	f	f	f	е
ENSIGN PLATFORM	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	SPIRIT ENERGY	PRECOMMISSION	0											50.85		49.42	75.81	g	g	9	а	g	g	g	f	f	f	е
AMETHYST A1D	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	PERENCO	ACTIVE												51.06		41.10	53.16	f	f	а	а	d	g	g	f	f	f	а
ENSIGN	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	SHELL	PROPOSED												52.82		57.38	57.38	f	f	а	а	d	g	g	f	f	f	а
AMETHYST C1D	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	PERENCO	ACTIVE												52.96		71.30	125.14	f	f	а	а	d	g	g	f	f	f	а
MURDOCH ACCOMMODATION	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	CONOCOPHILLIPS	ACTIVE												53.04		71.39	125.22	f	f	а	а	d	g	g	f	f	f	а
MURDOCH COMPRESSION	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	CONOCOPHILLIPS	ACTIVE					L							53.12		71.46	125.28	f	f	а	а	d	g	g	f	f	f	а
MURDOCH DRILLING	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	CONOCOPHILLIPS	ACTIVE					L							53.18		60.60	114.89	g	g	9	a	g	g	g	f	f	f	е
EXCALIBER EA	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	PERENCO	ACTIVE					┸					┸		53.22		58.18	107.92	f	f	а	a	d	g	g	f	f	f	а
49/11B TETHYS	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	CONOCOPHILLIPS	PRECOMMISSION	0				┸							54.30		47.12	61.92	f	f	а	a	d	g	g	f	f	f	а
GALLEON PG	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	SHELL	ACTIVE												54.35		56.16	88.84	f	f	а	a	d	g	g	f	f	f	а
AUDREY B (XW)	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	SPIRIT ENERGY	ACTIVE												54.64		42.19	52.56	f	f	a	а	d	g	g	f	f	f	а
CAISTER	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	CONOCOPHILLIPS	ACTIVE												55.55		74.96	134.68	f	f	f	а	f	f	f	f	f	f	е
GUINEVERE A	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	PERENCO	ACTIVE												56.86		39.03	46.46	а	а	a	а	d	g	g	f	f	f	а
LANCELOT A	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	PERENCO	ACTIVE												57.13		76.27	132.63	f	f	a	а	d	g	g	f	f	f	a
CLIPPER PW	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	SHELL	ACTIVE												57.17		62.11	111.31	g	g	9	a	d	g	g	f	f	f	е



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					Const	ruction I	Period (re	ed outline	denotes	the offsh	ore cons	struction	n period fo	or Hornse	a Four)														
Project	Data Source(s)	Data Confidence Assessment	Notes	Status of Development	2019	2020	2021	2022	2024	2025	2026	2027	2028	2030	2031-2050	Distance from the Hornsea Four Array Area (km)	Distance from the Hornsea Four Offshore Export Cable Corridor (km)	Distance from the Hornsea Four offshore HVAC Booster Station Area (km)	farine Geology, Oceanography and Physical Processes	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammals (seismic surveys are considered separately)	Offshore and Intertidal Ornithology	Commercial Fisheries	Shipping and Navigation	Aviation and Radar	Marine Archaeology	eascape and Visual Resources	Infrastructure and Other Users
CLIPPER PH	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	SHELL	ACTIVE					Т					Т		57.27	64.92	119.01	g	g	9	а	d	g	g	f	f	f	е
CLIPPER PT	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	SHELL	ACTIVE					Т					Т		57.70	62.11	108.19	f	f	а	а	d	g	g	f	f	f	а
CLIPPER PC	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	SHELL	ACTIVE												57.78	62.18	108.19	f	f	а	а	d	g	g	f	f	f	a
CLIPPER PM	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	SHELL	ACTIVE												57.81	62.21	108.27	f	f	а	а	d	g	g	f	f	f	а
CLIPPER PR	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	SHELL	ACTIVE												57.81	62.22	108.32	f	f	а	а	d	g	g	f	f	f	а
MUNRO MH	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	CONOCOPHILLIPS	ACTIVE												57.85	62.26	108.36	f	f	а	а	d	g	g	f	f	f	а
FRIGATE EXTENSION	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	SHELL	PROPOSED					Г							57.90	62.31	108.42	f	f	а	а	d	g	g	f	f	f	a
AUDREY A (WD)	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	SPIRIT ENERGY	ACTIVE												60.24	62.32	94.77	f	f	а	а	d	g	g	f	f	f	a
44/23A KELVIN TM	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	CONOCOPHILLIPS	PRECOMMISSIO N												60.60	61.64	90.07	g	g	g	а	9	g	g	f	f	f	е
WAVENEY	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	PERENCO	ACTIVE												62.61	67.81	118.06	f	f	а	а	d	g	g	f	f	f	а
GALLEON PN	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	SHELL	ACTIVE												62.83	67.87	117.08	f	f	а	а	d	g	g	f	f	f	а
SKIFF	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	SHELL	ACTIVE												63.14	75.32	133.25	f	f	а	а	d	g	g	f	f	f	а
CLIPPER SOUTH	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	INEOS UK SNS	ACTIVE												64.03	80.35	128.00	f	f	а	а	d	g	g	f	f	f	а
ANGLIA A	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	ITHACA	ACTIVE												64.72	69.19	114.79	f	f	а	а	d	g	g	f	f	f	а
ANGLIA YD	Oil and Gas Authority	confirmed as being 'accurate'	CONOCOPHILLIPS	ACTIVE												65.34	75.65	131.75	g	g	g	а	9	g	g	f	f	f	е
CYGNUS B (BWHP)	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	NEPTUNE	ACTIVE												65.56	72.38	124.76	f	f	а	а	d	g	g	f	f	f	а
WENLOCK NUI	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	ALPHA PETROLEUM	ACTIVE												65.62	83.87	136.61	g	g	g	а	е	g	g	f	f	f	е
CYGNUS A (AUQ)	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	NEPTUNE	ACTIVE												66.16	76.94	133.45	g	9	9	а	9	g	g	f	f	f	е
CYGNUS A (APU)	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	NEPTUNE	ACTIVE												66.17	69.91	110.90	f	f	a	а	d	g	g	f	f	f	а
CYGNUS A (AWHP)	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	NEPTUNE	ACTIVE												66.17	69.91	110.90	f	f	a	а	d	9	9	f	f	f	а
VAMPIRE	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	CONOCOPHILLIPS	ACTIVE												67.05	68.55	96.77	f	f	а	а	d	g	g	f	f	f	а



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In Planning/Consenting/Pre-Construction		Potential cumulative impact exists: Screened in to assessment.
Construction	d	No conceptual effect-receptor pathway: Screened out of assessment.
Operation and Maintenance	e	Low data confidence: Screened out of assessment.
Decommissioning	f	No physical effect-receptor overlap: Screened out of assessment.
	a a	No temporal overlap: Screened out of assessment.

					Constr	uction Per	iod (red	l outline o	denotes	the offsh	ore con	structio	n period	for Horn	sea Four)														
Project	Data Source(s)	Data Confidence Assessment	Notes	Status of Development	2019	2020	2021	2022	2024	2025	2026	2027	2028	2029	2031-2050	Distance from the Hornsea Four Array Area (km)	Distance from the Hornsea Four Offshore Export Cable Corridor (km)	Distance from the Hornsea Four offshore HVAC Booster Station Area (km)	larine Geology, Oceanography and Physical Processes	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammals (seismic surveys are considered separately)	Offshore and Intertidal Ornithology	Commercial Fisheries	Shipping and Navigation	Aviation and Radar	Marine Archaeology	eascape and Visual Resources	Infrastructure and Other Users
TYNE	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	PERENCO	ACTIVE			T									70.59	80.12	135.09	9	g	g	a	g	g	g	f	f	f	е
VIKING KILO DRILLING	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	CONOCOPHILLIPS	ACTIVE												71.98	79.89	132.96	g	g	g	а	g	g	g	f	f	f	е
VIKING ALPHA RISER	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	CONOCOPHILLIPS	ACTIVE												71.98	79.89	132.96	g	g	g	а	g	g	g	f	f	f	е
WINGATE PLATFORM	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	WINTERSHALL	ACTIVE												72.22	83.11	139.41	g	g	g	а	g	g	g	f	f	f	е
LOGGS RISER	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	CONOCOPHILLIPS	ACTIVE												72.37	77.61	127.28	g	g	g	а	g	g	g	f	f	f	е
LOGGS COMPRESSION	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	CONOCOPHILLIPS	ACTIVE												72.42	91.13	145.15	f	f	а	а	d	g	g	f	f	f	a
LOGGS PRODUCTION	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	CONOCOPHILLIPS	ACTIVE												72.43	77.67	127.35	g	g	g	а	g	g	g	f	f	f	е
NORTH VALIANT 1	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	CONOCOPHILLIPS	ACTIVE					Г							72.50	77.74	127.41	g	g	g	а	g	g	g	f	f	f	a
LOGGS ACCOMMODATION	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	CONOCOPHILLIPS	ACTIVE												72.50	77.74	127.44	f	f	а	а	d	g	g	f	f	f	a
VIKING LIMA DRILLING	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	CONOCOPHILLIPS	ACTIVE												72.56	77.80	127.47	g	g	g	а	g	g	g	f	f	f	е
CHISWICK PLATFORM	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	SPIRIT ENERGY	ACTIVE												72.66	91.52	152.47	f	f	а	а	d	g	g	f	f	f	a
VIKING ECHO DRILLING	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	CONOCOPHILLIPS	ACTIVE												73.06	89.10	149.70	f	f	а	а	d	g	g	f	f	f	a
VIKING ED	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	CONOCOPHILLIPS	ACTIVE												73.52	90.67	139.71	g	g	g	а	g	g	g	f	f	f	е
VIKING HOTEL DRILLING	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	CONOCOPHILLIPS	ACTIVE												74.00	83.36	137.94	g	g	g	а	g	g	g	f	f	f	е
KATY KT	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	CONOCOPHILLIPS	PRECOMMISSIO N												74.20	88.85	128.61	f	f	а	а	d	g	g	f	f	f	a
CUTTER	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	SHELL	ACTIVE												75.19	90.11	132.60	f	f	а	а	d	g	g	f	f	f	a
VIKING GOLF DRILLING	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	CONOCOPHILLIPS	ACTIVE												75.28	90.21	132.70	f	f	а	а	d	g	g	f	f	f	a
NORTH VALIANT 2	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	CONOCOPHILLIPS	ACTIVE												75.38	90.31	132.80	f	f	а	а	d	g	g	f	f	f	a
VANGUARD	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	CONOCOPHILLIPS	ACTIVE												76.32	82.89	133.95	f	f	а	а	d	g	g	f	f	f	a
VISCOUNT	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	CONOCOPHILLIPS	ACTIVE												76.51	83.70	135.52	f	f	а	а	d	9	g	f	f	f	a
WINDERMERE PLATFORM	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	INEOS UK SNS	ACTIVE												76.53	94.53	155.84	f	f	а	а	d	g	g	f	f	f	a



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	In Planning/Consenting/Pre-Construction	c	Potential cumulative impact exists: Screened in to assessment.
	Construction	d	No conceptual effect-receptor pathway: Screened out of assessment.
	Operation and Maintenance	e	Low data confidence: Screened out of assessment.
	Decommissioning	f	No physical effect-receptor overlap: Screened out of assessment.
-		a a	No temporal overlap: Screened out of assessment.

					Constr	ruction F	eriod (re	ed outline	denotes	the offsh	ore con	structio	n period	for Horns	sea Four)	9						Screenea out							
Project	Data Source(s)	Data Confidence Assessment	Notes	Status of Development	2019	2020			2024	2025	2026	2027	2028	2029	2031-2050	Distance from the Hornsea Four Array Area (km)	Distance from the Hornsea Four Offshore Export Cable Corridor (km)	Distance from the Hornsea Four offshore HVAC Booster Station Area (km)	Marine Geology, Oceanography and Physical Processes	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammals (seismic surveys are considered se parately)	Offshore and Intertidal Ornithology	Commercial Fisheries	Shipping and Navigation	Aviation and Radar	Marine Archaeology	Seascape and Visual Resources	Infrastructure and Other Users
VIKING BRAVO ACCOMMODATION	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	CONOCOPHILLIPS	ACTIVE												76.71	86.89	142.22	g	g	g	a	g	g	g	f	f	f	е
VIKING BRAVO COMPRESSION	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	CONOCOPHILLIPS	ACTIVE												76.76	82.07	131.45	f	f	а	а	d	g	g	f	f	f	е
VIKING BRAVO PRODUCTION	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	CONOCOPHILLIPS	ACTIVE												76.81	87.00	142.33	f	f	а	а	d	g	g	f	f	f	а
VIKING BRAVO DRILLING	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	CONOCOPHILLIPS	ACTIVE												76.88	87.06	142.39	g	g	g	а	g	g	g	f	f	f	е
VIKING DELTA DRILLING	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	CONOCOPHILLIPS	ACTIVE												76.95	87.13	142.44	g	g	g	а	g	g	g	f	f	f	е
SOUTH VALIANT	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	CONOCOPHILLIPS	ACTIVE												77.81	41.10	45.86	а	а	а	а	d	g	g	f	f	f	а
VIKING CHARLIE DRILLING	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	CONOCOPHILLIPS	ACTIVE												79.68	97.86	149.68	g	g	g	а	е	g	g	f	f	f	е
VULCAN 2	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	CONOCOPHILLIPS	ACTIVE												79.92	90.62	146.36	g	g	g	а	g	g	g	f	f	f	е
ST-1 PLATFORM	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	SPIRIT ENERGY	ACTIVE												80.77	91.03	146.24	g	g	g	а	g	g	g	f	f	f	е
VULCAN 1	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	CONOCOPHILLIPS	ACTIVE												82.09	87.72	137.00	f	f	а	а	d	g	g	f	f	f	а
GANYMEDE ZD	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	CONOCOPHILLIPS	ACTIVE												82.40	100.61	161.91	f	f	а	а	d	g	g	f	f	f	а
JUPITER GANYMEDE	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	CONOCOPHILLIPS	ACTIVE												84.53	89.30	134.84	f	f	а	а	d	g	g	f	f	f	а
GROVE PLATFORM	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	SPIRIT ENERGY	ACTIVE												85.32	92.76	144.26	f	f	а	а	d	g	g	f	f	f	а
D15-FA1	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	NEPTUNE	ACTIVE												85.32	92.76	144.26	f	f	а	а	d	g	g	f	f	f	а
J6A / J6A-CT PLATFORMS	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	SPIRIT ENERGY	ACTIVE												85.84	102.82	163.84	f	f	а	а	d	g	g	f	f	f	а
VICTOR JULIET DRILLING	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	CONOCOPHILLIPS	ACTIVE												87.06	91.96	138.25	f	f	а	а	d	g	g	f	f	f	а
CARRACK QA	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	SHELL	ACTIVE												87.76	105.89	167.20	f	f	a	a	d	g	g	f	f	f	a
INDE BP	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	PERENCO	ACTIVE												89.10	97.94	151.00	g	9	g	a	g	g	g	f	f	f	е
INDE BD	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	PERENCO	ACTIVE												89.23	104.42	164.27	f	f	а	a	d	9	g	f	f	f	a
48/29C	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	ENI	ACTIVE												89.62	100.75	156.56	f	f	a	a	d	g	g	f	f	f	a
BRIGANTINE BR	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	SHELL	ACTIVE												89.64	100.75	156.55	f	f	a	a	d	g	g	f	f	f	a



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	In Planning/Consenting/Pre-Construction	С	Potential cumulative impact exists: Screened in to assessment.
	Construction	d	No conceptual effect-receptor pathway: Screened out of assessment.
	Operation and Maintenance	е	Low data confidence: Screened out of assessment.
	Decommissioning	f	No physical effect-receptor overlap: Screened out of assessment.
•		g	No temporal overlap: Screened out of assessment.

					Constru	uction Pe	eriod (red	outline de	notes the	e offshor	re constru	ction peri	iod for Ho	ornsea F	our)														
Project	Data Source(s)	Data Confidence Assessment	Notes	Status of Development	2019	2020	2021	2023	2024	2025	2026	2028	2029	2030	2031-2050 <del>T</del>	Distance from the Iornsea Four Array Area (km)	Distance from the Hornsea Four Offshore Export Cable Corridor (km)	Distance from the Hornsea Four offshore HVAC Booster Station Area (km)	larine Geology, Oceanography and Physical Processes	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammals (seismic surveys are considered separately)	Offshore and Intertidal Ornithology	Commercial Fisheries	Shipping and Navigation	Aviation and Radar	Marine Archaeology	eascape and Visual Resources	nfrastructure and Other Users
EUROPA	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	CONOCOPHILLIPS	ACTIVE												91.32	110.41	165.49	f	f	а	а	d	g	g	f	f	f	a
INDE AP	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	PERENCO	ACTIVE											Π	93.56	106.55	164.29	f	f	а	а	d	g	g	f	f	f	а
INDE AD	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	PERENCO	ACTIVE												94.00	105.09	160.72	f	f	а	а	d	g	g	f	f	f	а
BRIGANTINE BG	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	SHELL	ACTIVE												94.02	105.10	160.71	f	f	а	а	d	g	g	f	f	f	а
48/29B	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	ENI	ACTIVE												94.68	106.89	163.77	f	f	а	а	d	g	g	f	f	f	а
INDE D	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	PERENCO	ACTIVE												94.73	101.93	152.45	f	f	а	а	d	g	g	f	f	f	а
INDE AQ	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	PERENCO	ACTIVE												96.54	106.31	160.21	f	f	a	а	d	g	g	f	f	f	а
INDE AC	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	PERENCO	ACTIVE												96.68	75.17	77.31	f	f	а	а	d	g	g	f	f	f	а
INDE AT	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	PERENCO	ACTIVE												97.18	100.92	138.13	f	f	а	а	d	g	g	f	f	f	а
INDE CP	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	PERENCO	ACTIVE												97.56	108.22	163.20	f	f	а	а	d	g	g	f	f	f	а
INDE CD	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	PERENCO	ACTIVE												97.66	108.30	163.24	f	f	a	а	d	g	g	f	f	f	а
LEMAN F	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	SHELL	ACTIVE												97.68	108.31	163.23	f	f	a	а	d	9	g	f	f	f	а
LEMAN G (SHELL)	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	SHELL	ACTIVE												98.73	109.12	163.72	f	f	а	а	d	g	g	f	f	f	а
48/29A-P	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	ENI	ACTIVE												98.78	109.16	163.75	f	f	а	а	d	g	g	f	f	f	а
48/29A-Q	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	ENI	ACTIVE												100.89	104.27	138.62	f	f	а	а	d	g	g	f	f	f	а
48/29A-FTP	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	ENI	ACTIVE												102.29	107.00	150.84	f	f	а	а	d	g	g	f	f	f	а
LEMAN AK	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	SHELL	ACTIVE												102.39	107.21	151.92	f	f	а	а	d	g	g	f	f	f	a
LEMAN AC (SHELL)	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	SHELL	ACTIVE												103.27	117.73	176.77	f	f	а	а	е	g	g	f	f	f	е
LEMAN AD1	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	SHELL	ACTIVE												103.28	117.73	176.77	f	f	a	а	d	g	g	f	f	f	a
LEMAN AP (SHELL)	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	SHELL	ACTIVE												104.66	118.55	177.01	f	f	а	а	d	9	g	f	f	f	a
LEMAN AD2	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	SHELL	ACTIVE												105.69	114.16	165.88	f	f	a	а	d	g	g	f	f	f	a



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	In Planning/Consenting/Pre-Construction	С	Potential cumulative impact exists: Screened in to assessment.
	Construction	d	No conceptual effect-receptor pathway: Screened out of assessment.
	Operation and Maintenance	е	Low data confidence: Screened out of assessment.
	Decommissioning	f	No physical effect-receptor overlap: Screened out of assessment.
•		g	No temporal overlap: Screened out of assessment.

					Constru	uction P	eriod (red	d outline d	lenotes t	he offsho	re constru	action peri	iod for H	ornsea	Four)														
Project	Data Source(s)	Data Confidence Assessment	Notes	Status of Development	2019	2020	2021	2022	2024	2025	2026	2028	2029	2030	2031-2050	Distance from the fornsea Four Array Area (km)	Distance from the Hornsea Four Offshore Export Cable Corridor (km)	Distance from the Hornsea Four offshore HVAC Booster Station Area (km)	larine Geology, Oceanography and Physical Processes	Benthic and Intertidal Ecology	Fish and Sheliffsh Ecology	Marine Mammals (seismic surveys are considered separately)	Offshore and Intertidal Ornithology	Commercial Fisheries	Shipping and Navigation	Aviation and Radar	Marine Archaeology	eascape and Visual Resources	nfrastructure and Other Users
LEMAN CD (SHELL)	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	SHELL	ACTIVE												105.86	110.70	155.30	f	f	a	а	d	g	g	f	f	f	a
LEMAN CP (SHELL)	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	SHELL	ACTIVE												105.87	110.70	155.28	f	f	а	а	d	g	g	f	f	f	а
LUCY - SMALLFOOT	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	SHELL	PROPOSED												105.92	110.74	155.29	f	f	a	а	d	g	g	f	f	f	а
SHAMROCK QS	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	SHELL	ACTIVE												105.92	110.75	155.32	f	f	a	а	d	9	g	f	f	f	а
52/5A	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	ENI	ACTIVE												105.92	110.76	155.34	f	f	а	а	d	9	g	f	f	f	а
CARAVEL QR	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	SHELL	ACTIVE												106.19	111.11	156.34	f	f	а	а	d	9	g	f	f	f	а
BESSEMER A	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	PERENCO	ACTIVE												106.19	111.11	156.37	f	f	а	а	d	9	g	f	f	f	а
LEMAN BT (SHELL)	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	SHELL	ACTIVE												106.28	110.01	146.38	f	f	a	а	d	g	g	f	f	f	а
LEMAN BD (SHELL)	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	SHELL	ACTIVE												106.28	110.00	146.33	f	f	a	а	d	g	g	f	f	f	а
LEMAN BP (SHELL)	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	SHELL	ACTIVE												106.33	110.06	146.36	f	f	а	а	d	9	g	f	f	f	а
CORVETTE	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	SHELL	ACTIVE												107.69	117.63	171.32	f	f	a	а	d	g	g	f	f	f	а
LEMAN EP	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	PERENCO	ACTIVE												108.28	113.21	158.44	f	f	a	а	d	9	g	f	f	f	а
LEMAN ED	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	PERENCO	ACTIVE												108.90	113.83	159.03	f	f	а	а	d	g	g	f	f	f	а
LEMAN E	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	SHELL	ACTIVE												108.91	113.84	159.06	f	f	а	а	d	g	g	f	f	f	а
LEMAN AX	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	PERENCO	ACTIVE												109.09	112.96	150.10	f	f	а	а	d	g	g	f	f	f	а
LEMAN AQ	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	PERENCO	ACTIVE												111.22	116.18	161.48	f	f	а	а	d	g	g	f	f	f	а
LEMAN AC	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	PERENCO	ACTIVE												111.23	116.19	161.47	f	f	а	а	d	g	g	f	f	f	a
LEMAN AP (PERENCO)	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	PERENCO	ACTIVE												111.36	116.25	161.00	f	f	а	а	d	g	g	f	f	f	a
LEMAN AD	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	PERENCO	ACTIVE												112.51	117.51	163.05	f	f	a	а	d	g	g	f	f	f	a
LEMAN J	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	PERENCO	ACTIVE												112.54	117.54	163.10	f	f	a	а	d	9	g	f	f	f	a
LEMAN BT (PERENCO)	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	PERENCO	ACTIVE												112.56	117.56	163.10	f	f	a	а	d	g	g	f	f	f	a



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In Planning/Consenting/Pre-Construction	c c	Potential cumulative impact exists: Screened in to assessment.
Construction	d	No conceptual effect-receptor pathway: Screened out of assessment.
Operation and Maintenance	е	Low data confidence: Screened out of assessment.
Decommissioning Decommission of the Communication o	f	No physical effect-receptor overlap: Screened out of assessment.
	g	No temporal overlap: Screened out of assessment.

					Constru	ıction Peri	od (red o	utline deno	otes the c	offshore	constru	ction peri	iod for Ho	rnsea F	our)					,		00.0000							
Project	Data Source(s)	Data Confidence Assessment	Notes	Status of Development	2019	2020	2022	2023	2024	2025	2027	2028	2029	2030	2031-2050 ==	Distance from the Iornsea Four Array Area (km)	Distance from the Hornsea Four Offshore Export Cable Corridor (km)	Distance from the Homsea Four offshore HVAC Booster Station Area (km)	Marine Geology, Oceanography and Physical Processes	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammals (seismic surveys are considered se parately)	Offshore and Intertidal Ornithology	Commercial Fisheries	Shipping and Navigation	Aviation and Radar	Marine Archaeology	Seascape and Visual Resources	Infrastructure and Other Users
LEMAN BP (PERENCO)	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	PERENCO	ACTIVE												112.58	117.57	163.09	f	f	a	а	d	9	g	f	f	f	а
LEMAN BD (PERENCO)	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	PERENCO	ACTIVE												112.59	117.59	163.09	f	f	a	а	d	g	g	f	f	f	а
LEMAN D	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	SHELL	ACTIVE												114.27	119.20	164.04	f	f	a	а	d	9	g	f	f	f	а
LEMAN CP (PERENCO)	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	PERENCO	ACTIVE									Ш			114.32	119.56	165.82	f	f	a	a	d	g	g	f	f	f	a
LEMAN CD (PERENCO)	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	PERENCO	ACTIVE									Ц			114.35	119.59	165.82	f	f	a	a	d	g	9	f	f	f	a
LEMAN FD	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	PERENCO	ACTIVE									Ц			114.39	119.61	165.83	f	f	a	а	d	g	g	f	f	f	а
LEMAN FP	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	PERENCO	ACTIVE									Ц			115.63	120.43	164.27	f	f	a	а	d	g	g	f	f	f	а
LEMAN H	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	PERENCO	ACTIVE									Ц			116.00	121.00	166.33	f	f	a	а	d	g	g	f	f	f	а
LEMAN G (PERENCO)	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	PERENCO	ACTIVE									Ц			116.03	121.03	166.33	f	f	a	а	d	g	g	f	f	f	а
BOOSTER PLATFORM 36/22A NORPIPE A.S	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	CONOCOPHILLIPS	ACTIVE									Ц			116.18	121.63	168.10	f	f	a	а	d	g	g	f	f	f	а
SEAN RD	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	ONER	ACTIVE									Ц			116.20	121.63	168.08	f	f	a	а	d	g	g	f	f	f	а
LEMAN DP	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	PERENCO	ACTIVE									Ш			116.81	128.10	183.26	f	f	a	а	d	g	g	f	f	f	a
LEMAN DD	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	PERENCO	ACTIVE									Ц			116.95	121.81	166.04	f	f	a	а	d	g	g	f	f	f	а
THAMES A	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	PERENCO	ACTIVE									Ш			118.29	124.32	171.64	f	f	a	а	d	g	g	f	f	f	а
THAMES AR	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	PERENCO	ACTIVE									Ц			118.67	126.53	176.76	f	f	a	а	d	g	g	f	f	f	а
SEAN PD	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	ONER	ACTIVE												118.75	126.62	176.86	f	f	a	а	d	9	9	f	f	f	а
SEAN PP	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	ONER	ACTIVE									Ц			119.26	124.75	171.13	f	f	а	а	d	g	g	f	f	f	а
DAVY A	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	PERENCO	ACTIVE									Ц			119.28	124.77	171.12	f	f	а	а	d	g	g	f	f	f	а
BOOSTER PLATFORM 37/4A NORPIPE A.S	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	CONOCOPHILLIPS	ACTIVE												119.94	130.74	185.17	f	f	a	а	d	g	9	f	f	f	a
Netherlands D18a-A	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	ENGIE E&P Nederland B.V.	producing												78.53	98.01	155.89	f	f	a	a	d	9	g	f	f	f	a



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	In Planning/Consenting/Pre-Construction	c	Potential cumulative impact exists: Screened in to assessment.
	Construction	d	No conceptual effect-receptor pathway: Screened out of assessment.
	Operation and Maintenance	e	Low data confidence: Screened out of assessment.
	Decommissioning	f	No physical effect-receptor overlap: Screened out of assessment.
-		a a	No temporal overlap: Screened out of assessment.

					Constru	uction Pe	riod (red	outline de	notes the	e offshor	e constru	ction per	iod for Ho	ornsea F	our)														
Project	Data Source(s)	Data Confidence Assessment	Notes	Status of Development	2019	2020	2021 2022	2023	2024	2025	2026 2027	2028	2029	2030	2031-2050 ==	Distance from the lornsea Four Array Area (km)	Distance from the Hornsea Four Offshore Export Cable Corridor (km)	Distance from the Hornsea Four offshore HVAC Booster Station Area (km)	Marine Geology, Oceanography and Physical Processes	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammals (seismic surveys are considered separately)	Offshore and Intertidal Ornithology	Commercial Fisheries	Shipping and Navigation	Aviation and Radar	Marine Archaeology	Seascape and Visual Resources	Infrastructure and Other Users
Markham	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Centrica Production Nederland B.V.	producing												83.31	101.78	163.03	g	9	g	а	g	g	g	f	f	f	е
D12-B	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Wintershall Noordzee B.V.	undeveloped, production start unknown												85.69	104.17	156.64	g	g	g	а	е	g	g	f	f	f	е
D12-A	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Wintershall Noordzee B.V.	producing									Ш			86.17	105.09	159.45	f	f	а	а	d	g	g	f	f	f	а
K01-A Unit	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Total E&P Nederland B.V.	producing									Ш			87.16	105.80	166.96	f	f	а	а	d	9	g	f	f	f	a
J03-C Unit	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Total E&P Nederland B.V.	producing												87.18	105.50	166.80	f	f	а	а	d	9	g	f	f	f	a
D15-A-104	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	ENGIE E&P Nederland B.V.	production ceased	d								Ц			88.76	107.85	162.93	g	g	g	а	g	g	g	f	f	f	е
D15 Tourmaline	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	ENGIE E&P Nederland B.V.	undeveloped, production start expected within 5 years												89.46	108.68	164.51	f	f	е	a	d	g	g	f	f	f	a
D15-A	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	ENGIE E&P Nederland B.V.	producing												90.06	109.18	164.05	f	f	а	а	d	g	g	f	f	f	а
K04a-D	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Total E&P Nederland B.V.	producing									Ш			91.28	109.33	170.64	f	f	а	а	d	g	g	f	f	f	а
D12 Ilmenite	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Wintershall Noordzee B.V.	undeveloped, production start unknown												95.43	113.37	163.63	g	g	g	а	е	g	g	f	f	f	е
K04a-Z	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Total E&P Nederland B.V.	producing									Ш			95.80	113.40	174.62	f	f	a	а	d	g	g	f	f	f	а
K07-FB	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Nederlandse Aardolie Maatschappij B.V.	producing									Ш			97.44	114.05	174.83	f	f	a	а	d	g	g	f	f	f	а
K04a-B	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Total E&P Nederland B.V.	producing												99.46	117.48	178.78	f	f	а	а	d	9	g	f	f	f	а
E13 Epidoot	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		undeveloped, production start unknown												100.64	119.91	175.74	g	g	а	а	е	9	g	f	f	f	е
K04-A	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Total E&P Nederland B.V.	producing												101.03	119.18	180.49	f	f	а	а	d	g	g	f	f	f	а
K04-E	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Total E&P Nederland B.V.	producing												102.15	120.03	181.30	f	f	а	а	d	g	g	f	f	f	а
K04-N	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Total E&P Nederland B.V.	producing												107.51	125.30	186.57	f	f	а	а	d	g	g	f	f	f	а
E17a-A	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	ENGIE E&P Nederland B.V.	producing												110.73	130.13	189.60	f	f	а	а	d	9	g	f	f	f	а
K05a-A	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Total E&P Nederland B.V.	producing												112.09	130.03	191.32	f	f	а	а	d	g	g	f	f	f	а
K07-FD	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Nederlandse Aardolie Maatschappij B.V.	producing												112.21	128.81	189.53	f	f	а	а	d	g	g	f	f	f	а



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					Constr	uction P	eriod (re	ed outline	denotes	the offsh	ore con	struction	n period f	or Horns	sea Four)	y						Screenea ou							
Project	Data Source(s)	Data Confidence Assessment	Notes	Status of Development	19	2020			2024	2025	2026	2027	2028	2030	2031-2050	Distance from the Hornsea Four Array Area (km)	Distance from the Hornsea Four Offshore Export Cable Corridor (km)	Distance from the Hornsea Four offshore HVAC Booster Station Area (km)	Marine Geology, Oceanography and Physical Processes	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammals (seismic surveys are considered separately)	Offshore and Intertidal Ornithology	Commercial Fisheries	Shipping and Navigation	Aviation and Radar	Marine Archaeology	Seascape and Visual Resources	Infrastructure and Other Users
K05-C North	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Total E&P Nederland B.V.	producing												112.94	131.45	192.70	f	f	a	а	d	g	g	f	f	f	a
K07-FA	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Nederlandse Aardolie Maatschappij B.V.	producing												114.31	130.96	191.69	f	f	a	a	d	g	g	f	f	f	а
K05-U	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Total E&P Nederland B.V.	producing												115.81	134.43	195.60	f	f	a	a	d	g	g	f	f	f	а
K07-FE	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Nederlandse Aardolie Maatschappij B.V.	producing												116.84	133.11	193.58	f	f	а	а	d	g	g	f	f	f	а
K05a-B	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Total E&P Nederland B.V.	producing					L							116.87	134.86	196.15	f	f	а	а	d	g	g	f	f	f	а
K05-C Unit	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Total E&P Nederland B.V.	producing					L					L		118.82	137.27	198.54	f	f	а	а	d	g	g	f	f	f	а
K07-FC	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Nederlandse Aardolie Maatschappij B.V.	producing												121.31	137.50	197.89	f	f	а	а	d	g	g	f	f	f	а
K08-FD	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Nederlandse Aardolie Maatschappij B.V.	undeveloped, production start unknown												122.41	139.72	>200	g	g	g	а	е	g	g	f	f	f	е
K05a-D	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Total E&P Nederland B.V.	producing					L					L		123.98	141.75	>200	f	f	а	а	d	g	g	f	f	f	а
K05a-En	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Total E&P Nederland B.V.	producing					L					L		124.13	142.22	>200	f	f	a	а	d	g	g	f	f	f	а
K08-FA	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Nederlandse Aardolie Maatschappij B.V.	producing					L					┸		124.81	141.42	>200	f	f	a	а	d	g	g	f	f	f	а
K10-B (gas)	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Wintershall Noordzee B.V.	abandoned												125.30	140.07	199.00	g	g	g	а	g	g	g	f	f	f	е
K02b-A	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	ENGIE E&P Nederland B.V.	producing					L					╧		125.32	144.53	>200	f	f	а	а	d	g	g	f	f	f	а
K13-B	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Wintershall Noordzee B.V.	abandoned										┸		125.81	138.95	196.24	g	g	g	а	g	g	g	f	f	f	е
K10-C	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Wintershall Noordzee B.V.	abandoned												126.49	141.62	>200	g	g	g	а	g	g	g	f	f	f	е
K10-V	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Wintershall Noordzee B.V.	abandoned												126.49	141.62	>200	g	g	g	а	g	g	g	f	f	f	е
K11-FA	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Nederlandse Aardolie Maatschappij B.V.	abandoned												126.95	142.65	>200	g	g	g	а	g	g	g	f	f	f	е
K05a-Es	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Total E&P Nederland B.V.	production ceased	i											127.64	145.53	>200	g	g	g	a	g	g	9	f	f	f	е
E11-Vincent	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Tullow Netherlands B.V.	undeveloped, production start unknown												127.80	147.08	>200	g	9	g	а	е	9	9	f	f	f	е
K13-CF	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Wintershall Noordzee B.V.	abandoned												127.83	141.86	>200	g	9	g	а	g	g	9	f	f	f	е
K10-B (oil)	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Wintershall Noordzee B.V.	undeveloped, production start unknown												128.36	142.92	>200	g	g	g	а	е	g	g	f	f	f	е



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	In Planning/Consenting/Pre-Construction	C C	Potential cumulative impact exists: Screened in to assessment.
	Construction	d	No conceptual effect-receptor pathway: Screened out of assessment.
	Operation and Maintenance	e	Low data confidence: Screened out of assessment.
	Decommissioning	f	No physical effect-receptor overlap: Screened out of assessment.
_		g g	No temporal overlap: Screened out of assessment.

					Constru	ction Pe	eriod (red o	outline der	notes the	offshore	construc	ction perio	od for Hor	rnsea Fol	ur)														
Project	Data Source(s)	Data Confidence Assessment	Notes	Status of Development	2019	2020	2021	2023	2024	2025	2027	2028	2029	2030		Distance from the ornsea Four Array Area (km)	Distance from the Hornsea Four Offshore Export Cable Corridor (km)	Distance from the Hornsea Four offshore HVAC Booster Station Area (km)	Aarine Geology, Oceanography and Physical Processes	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammals (seismic surveys are considered separately)	Offshore and Intertidal Ornithology	Commercial Fisheries	Shipping and Navigation	Aviation and Radar	Marine Archaeology	seascape and Visual Resources	Infrastructure and Other Users
K05-G	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Total E&P Nederland B.V.	production ceased												128.74	146.60	>200	9	g	g	а	g	g	g	f	f	f	е
K13-DE	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Wintershall Noordzee B.V.	abandoned												129.43	143.23	>200	g	g	g	а	g	g	g	f	f	f	е
K08-FC	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Nederlandse Aardolie Maatschappij B.V.	producing												129.57	146.10	>200	f	f	f	а	d	g	g	f	f	f	a
K05-F	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Total E&P Nederland B.V.	producing												130.97	149.13	>200	f	f	f	а	d	g	g	f	f	f	а
K08-FB	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Nederlandse Aardolie Maatschappij B.V.	undeveloped, production start unknown												132.64	149.83	>200	g	g	g	а	е	g	g	f	f	f	е
K13-A	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Wintershall Noordzee B.V.	abandoned												133.66	146.84	>200	g	g	g	а	g	g	g	f	f	f	е
K08-FF	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Nederlandse Aardolie Maatschappij B.V.	undeveloped, production start unknown												133.91	150.89	>200	g	g	g	а	е	g	g	f	f	f	е
K08-FE	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Nederlandse Aardolie Maatschappij B.V.	undeveloped, production start unknown												135.45	153.02	>200	g	g	g	а	е	g	g	f	f	f	е
K16-5	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		undeveloped, production start unknown												139.07	151.15	>200	g	g	g	а	е	g	g	f	f	f	е
K06-N	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Total E&P Nederland B.V.	production ceased												140.24	158.34	>200	g	g	g	а	g	g	g	f	f	f	е
E12 Tulp East	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		undeveloped, production start unknown												140.58	159.80	>200	g	g	g	а	е	g	g	f	f	f	е
K06-DN	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Total E&P Nederland B.V.	producing												141.27	159.50	>200	f	f	f	а	d	9	g	f	f	f	a
K11-FC	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	ENGIE E&P Nederland B.V.	abandoned												142.94	159.23	>200	g	g	g	а	g	g	g	f	f	f	е
K11-FB	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	ENGIE E&P Nederland B.V.	abandoned												144.32	160.80	>200	а	а	g	а	g	g	g	f	f	f	е
E18-A	NLOG	confirmed as being 'accurate'	Wintershall Noordzee B.V.	producing												145.03	164.47	>200	f	f	f	а	d	g	g	f	f	f	а
K06-D	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Total E&P Nederland B.V.	producing												145.59	163.68	>200	f	f	f	а	d	g	g	f	f	f	а
E12 Lelie	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		undeveloped, production start unknown												145.81	165.12	>200	g	g	g	а	е	g	g	f	f	f	е
K06-T	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Total E&P Nederland B.V.	production ceased												146.71	165.07	>200	g	g	g	а	g	g	g	f	f	f	е
K09ab-D	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	ENGIE E&P Nederland B.V.	producing												147.04	164.21	>200	f	f	f	а	d	g	g	f	f	f	a
K06-C	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Total E&P Nederland B.V.	producing												147.35	165.51	>200	f	f	f	а	d	g	g	f	f	f	а
K14-FC	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Nederlandse Aardolie Maatschappij B.V.	undeveloped, production start unknown												147.52	162.85	>200	g	g	g	а	е	g	g	f	f	f	е



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In Planning/Consenting/Pre-Construction	C C	Potential cumulative impact exists: Screened in to assessment.
Construction	d	No conceptual effect-receptor pathway: Screened out of assessment.
Operation and Maintenance	e	Low data confidence: Screened out of assessment.
Decommissioning	f	No physical effect-receptor overlap: Screened out of assessment.
	g	No temporal overlap: Screened out of assessment.

					Constru	uction Per	iod (red o	outline der	notes the	offshor	e constru	ction per	riod for Ho	ornsea F	our)														
Project	Data Source(s)	Data Confidence Assessment	Notes	Status of Development	2019	2020	2022	2023	2024	2025	2026 2027	2028	2029	2030	2031-2050 ==	Distance from the lornsea Four Array Area (km)	Distance from the Hornsea Four Offshore Export Cable Corridor (km)	Distance from the Hornsea Four offshore HVAC Booster Station Area (km)	Marine Geology, Oceanography and Physical Processes	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammals (seismic surveys are considered separately)	Offshore and Intertidal Ornithology	Commercial Fisheries	Shipping and Navigation	Aviation and Radar	Marine Archaeology	Seascape and Visual Resources	Infrastructure and Other Users
K09ab-B	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	ENGIE E&P Nederland B.V.	producing												148.60	165.76	>200	f	f	f	а	d	g	g	f	f	f	а
K06-G	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Total E&P Nederland B.V.	producing												149.23	167.62	>200	f	f	f	а	d	g	g	f	f	f	а
K09c-A	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	ENGIE E&P Nederland B.V.	producing												150.28	168.04	>200	f	f	f	а	d	g	g	f	f	f	а
K09ab-C	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	ENGIE E&P Nederland B.V.	suspended												150.35	167.66	>200	g	g	g	а	g	g	g	f	f	f	е
F16-E	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Wintershall Noordzee B.V.	producing												150.52	169.99	>200	f	f	f	а	d	g	g	f	f	f	а
K12-A	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	ENGIE E&P Nederland B.V.	abandoned												150.58	167.36	>200	9	g	g	а	g	g	g	f	f	f	е
K14-FA	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Nederlandse Aardolie Maatschappij B.V.	producing												150.96	166.21	>200	f	f	f	а	d	g	g	f	f	f	а
P01-FB	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Petrogas E&P Netherlands B.V.	undeveloped, production start unknown												152.07	163.24	>200	g	g	g	а	е	g	g	f	f	f	е
K06-A	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Total E&P Nederland B.V.	producing												152.56	171.26	>200	f	f	f	а	d	g	g	f	f	f	а
K09c-B	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	ENGIE E&P Nederland B.V.	undeveloped, production start expected within 5 years												153.34	170.43	>200	f	f	f	а	d	g	g	f	f	f	а
K6-GT4	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Total E&P Nederland B.V.	undeveloped, production start unknown												153.91	172.38	>200	g	g	g	а	е	g	g	f	f	f	е
F16-P	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Wintershall Noordzee B.V.	undeveloped, production start expected within 5 years												154.00	173.35	>200	f	f	f	а	d	g	g	f	f	f	а
K14-FB	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Nederlandse Aardolie Maatschappij B.V.	producing				Ц								154.33	168.68	>200	f	f	f	а	d	g	g	f	f	f	а
P01-FA	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Petrogas E&P Netherlands B.V.	undeveloped, production start unknown												155.76	167.50	>200	g	g	g	а	е	g	g	f	f	f	е
K15-FH	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Nederlandse Aardolie Maatschappij B.V.	producing												155.77	171.02	>200	f	f	f	а	d	9	g	f	f	f	а
K12-H (K12-S2 & K12-D5)	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	ENGIE E&P Nederland B.V.	producing												156.54	172.98	>200	f	f	f	а	d	9	g	f	f	f	а
L01-A	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Total E&P Nederland B.V.	producing												156.98	175.84	>200	f	f	f	а	d	g	g	f	f	f	а
K12-L	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	ENGIE E&P Nederland B.V.	producing												157.26	174.38	>200	f	f	f	а	d	g	g	f	f	f	а
L04-B	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Total E&P Nederland B.V.	abandoned												157.54	175.72	>200	9	g	g	а	g	g	g	f	f	f	е
K17-FA	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Nederlandse Aardolie Maatschappij B.V.	producing												158.48	171.75	>200	f	f	f	а	d	g	g	f	f	f	а



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		b	Part of the baseline but has an ongoing impact and is therefore considered relevant to the cumulative impact assessment: Screened in to assessment.
	In Planning/Consenting/Pre-Construction	c	Potential cumulative impact exists: Screened in to assessment.
	Construction	d	No conceptual effect-receptor pathway: Screened out of assessment.
	Operation and Maintenance	e	Low data confidence: Screened out of assessment.
	Decommissioning	f	No physical effect-receptor overlap: Screened out of assessment.
-		a a	No temporal overlap: Screened out of assessment.

					Constr	uction P	Period (r	red outline	e denote:	s the offs	hore co	nstructi	on perio	d for Ho	rnsea Fo	our)							Screenea ou							
Project	Data Source(s)	Data Confidence Assessment	Notes	Status of Development		2020			2024		2026	2027	2028	2029	2030	2031-2050 <del>II</del>	Distance from the ornsea Four Array Area (km)	Distance from the Hornsea Four Offshore Export Cable Corridor (km)	Distance from the Hornsea Four offshore HVAC Booster Station Area (km)	Marine Geology, Oceanography and Physical Processes	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammals (seismic surveys are considered separately)	Offshore and Intertidal Ornithology	Commercial Fisheries	Shipping and Navigation	Aviation and Radar	Marine Archaeology	Seascape and Visual Resources	Infrastructure and Other Users
K12-M	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	ENGIE E&P Nederland B.V.	producing													158.73	175.49	>200	f	f	f	а	d	g	g	f	f	f	а
L04-D	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Total E&P Nederland B.V.	producing													158.76	177.12	>200	f	f	f	а	d	g	g	f	f	f	а
L04-I	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Total E&P Nederland B.V.	producing													159.53	178.11	>200	f	f	f	a	d	g	g	f	f	f	а
L04-A	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Total E&P Nederland B.V.	producing													160.09	178.58	>200	f	f	f	а	d	g	g	f	f	f	а
K17-Zechstein	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Nederlandse Aardolie Maatschappij B.V.	undeveloped, production start unknown													160.10	173.30	>200	g	g	g	а	е	g	g	f	f	f	е
K12-C	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	ENGIE E&P Nederland B.V.	production ceased	d												160.42	177.24	>200	9	g	9	а	g	g	g	f	f	f	е
K12-D	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	ENGIE E&P Nederland B.V.	producing													160.57	177.22	>200	f	f	f	а	d	g	g	f	f	f	а
K15-FC	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Nederlandse Aardolie Maatschappij B.V.	producing													160.68	175.92	>200	f	f	f	a	d	g	g	f	f	f	а
K09ab-A	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	ENGIE E&P Nederland B.V.	producing													161.87	179.17	>200	f	f	f	а	d	g	g	f	f	f	а
L04-F	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Total E&P Nederland B.V.	producing													162.42	181.14	>200	f	f	f	а	d	g	g	f	f	f	а
K17-FB	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Nederlandse Aardolie Maatschappij B.V.	undeveloped, production start unknown													162.59	176.03	>200	g	g	g	а	е	g	g	f	f	f	е
K15-FI	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Nederlandse Aardolie Maatschappij B.V.	producing													162.72	178.24	>200	f	f	f	а	d	g	g	f	f	f	а
K12-S1	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	ENGIE E&P Nederland B.V.	abandoned													162.73	179.12	>200	g	g	9	a	g	g	g	f	f	f	е
K12-E	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	ENGIE E&P Nederland B.V.	abandoned													163.43	180.54	>200	9	9	9	а	g	g	g	f	f	f	е
K12-B	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	ENGIE E&P Nederland B.V.	producing													163.52	179.77	>200	f	f	f	a	d	g	g	f	f	f	а
L07-A	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Total E&P Nederland B.V.	abandoned													164.64	182.40	>200	g	g	9	a	g	g	g	f	f	f	е
K15-FB	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Nederlandse Aardolie Maatschappij B.V.	producing													164.78	180.51	>200	f	f	f	а	d	g	g	f	f	f	а
L07-G	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Total E&P Nederland B.V.	producing													165.12	182.47	>200	f	f	f	а	d	g	g	f	f	f	а
K12-K	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	ENGIE E&P Nederland B.V.	suspended													165.47	182.17	>200	g	9	9	а	g	g	g	f	f	f	е
L04-G	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Total E&P Nederland B.V.	producing													165.64	184.39	>200	f	f	f	а	d	g	g	f	f	f	а
L07-H	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Total E&P Nederland B.V.	suspended													166.10	184.08	>200	9	9	g	а	9	g	g	f	f	f	е



		<u>a</u>	included as part of the topic baseline and nence not considered within the cumulative impact assessment.
		b	Part of the baseline but has an ongoing impact and is therefore considered relevant to the cumulative impact assessment: Screened in to assessment.
	In Planning/Consenting/Pre-Construction	С	Potential cumulative impact exists: Screened in to assessment.
	Construction	d	No conceptual effect-receptor pathway: Screened out of assessment.
	Operation and Maintenance	е	Low data confidence: Screened out of assessment.
	Decommissioning	f	No physical effect-receptor overlap: Screened out of assessment.
•		g	No temporal overlap: Screened out of assessment.

					Const	ruction P	eriod (red	d outline	denotes t	he offsh	ore cons	struction	n period f	or Hornse	a Four)														
Project	Data Source(s)	Data Confidence Assessment	Notes	Status of Development	2019	2020	2021	2022	2024	2025	2026	2027	2028	2030	2031-2050	Distance from the Hornsea Four Array Area (km)	Distance from the Hornsea Four Offshore Export Cable Corridor (km)	Distance from the Hornsea Four offshore HVAC Booster Station Area (km)	farine Geology, Oceanography and Physical Processes	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammals (seismic surveys are considered separately)	Offshore and Intertidal Ornithology	Commercial Fisheries	Shipping and Navigation	Aviation and Radar	Marine Archaeology	ieascape and Visual Resources	Infrastructure and Other Users
K15-F0	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Nederlandse Aardolie Maatschappij B.V.	producing												166.58	182.34	>200	f	f	f	а	d	g	g	f	f	f	a
K12-B9	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	ENGIE E&P Nederland B.V.	producing												166.89	182.98	>200	f	f	f	а	d	g	g	f	f	f	а
K15-FL	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Nederlandse Aardolie Maatschappij B.V.	producing												166.93	182.99	>200	f	f	f	а	d	g	g	f	f	f	a
P02-NE	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Clyde Petroleum	abandoned												166.95	179.38	>200	g	g	g	а	g	g	g	f	f	f	е
K12-G	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	ENGIE E&P Nederland B.V.	producing					Г							167.11	183.47	>200	f	f	f	а	d	g	g	f	f	f	f
L10-S3	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	ENGIE E&P Nederland B.V.	abandoned												167.41	184.40	>200	g	g	g	а	g	g	g	f	f	f	е
K12-S3	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	ENGIE E&P Nederland B.V.	producing												168.00	184.20	>200	f	f	f	а	d	g	g	f	f	f	а
P02-E	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Petrogas E&P Netherlands B.V.	undeveloped, production start unknown												168.26	179.89	>200	g	g	g	а	е	g	g	f	f	f	е
L10-O	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	ENGIE E&P Nederland B.V.	producing												168.33	185.06	>200	f	f	f	а	d	g	g	f	f	f	a
L07-D	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Total E&P Nederland B.V.	undeveloped, production start unknown												169.49	186.90	>200	g	g	9	а	е	g	g	f	f	f	е
L10-M	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	ENGIE E&P Nederland B.V.	producing												169.52	186.18	>200	f	f	f	а	d	g	g	f	f	f	a
P02-SE	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Clyde Petroleum	abandoned												169.52	181.17	>200	g	g	g	а	g	g	g	f	f	f	е
L01-FB	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		undeveloped, production start unknown												169.59	188.49	>200	g	g	g	а	е	g	g	f	f	f	е
L10-S1	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	ENGIE E&P Nederland B.V.	abandoned												169.80	186.72	>200	g	g	g	а	g	g	g	f	f	f	е
K15-FG	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Nederlandse Aardolie Maatschappij B.V.	producing												170.18	186.04	>200	f	f	f	а	d	g	g	f	f	f	а
K15-FP	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Nederlandse Aardolie Maatschappij B.V.	producing					Г							170.66	186.20	>200	f	f	f	а	d	g	g	f	f	f	a
K15-FM	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Nederlandse Aardolie Maatschappij B.V.	producing												170.76	186.06	>200	f	f	f	а	d	9	g	f	f	f	a
L07-H South-East	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Total E&P Nederland B.V.	production ceased	d											170.85	188.72	>200	g	g	g	а	g	g	g	f	f	f	е
L07-N	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Total E&P Nederland B.V.	production ceased	d											172.51	190.13	>200	g	g	g	а	g	g	g	f	f	f	е
K15-FE	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Nederlandse Aardolie Maatschappij B.V.	producing												172.52	188.22	>200	f	f	f	а	d	g	g	f	f	f	а
L07-B	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Total E&P Nederland B.V.	producing												172.71	190.67	>200	f	f	f	а	d	g	g	f	f	f	a



		le la	u	included as part of the topic baseline and hence not considered within the cumulative impact assessment.
		b	b	Part of the baseline but has an ongoing impact and is therefore considered relevant to the cumulative impact assessment: Screened in to assessment.
	In Planning/Consenting/Pre-Construction		C	Potential cumulative impact exists: Screened in to assessment.
	Construction	d	d	No conceptual effect-receptor pathway: Screened out of assessment.
	Operation and Maintenance	e	е	Low data confidence: Screened out of assessment.
	Decommissioning	f	f	No physical effect-receptor overlap: Screened out of assessment.
· ·			g	No temporal overlap: Screened out of assessment.

					Constr	uction Pe	riod (red	outline de	notes th	e offsho	re constr	uction per	riod for H	lornsea F	our)														
Project	Data Source(s)	Data Confidence Assessment	Notes	Status of Development	2019	2020	2021	2023	2024	2025	2026	202.8	2029	2030	2031-2050 ==	Distance from the ornsea Four Array Area (km)	Distance from the Hornsea Four Offshore Export Cable Corridor (km)	Distance from the Hornsea Four offshore HVAC Booster Station Area (km)	Marine Geology, Oceanography and Physical Processes	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammals (seismic surveys are considered separately)	Offshore and Intertidal Ornithology	Commercial Fisheries	Shipping and Navigation	Aviation and Radar	Marine Archaeology	Seascape and Visual Resources	Infrastructure and Other Users
K15-FK	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Nederlandse Aardolie Maatschappij B.V.	producing												173.01	188.27	>200	f	f	f	а	d	g	g	f	f	f	a
K15-FD	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Nederlandse Aardolie Maatschappij B.V.	producing												173.38	188.94	>200	f	f	f	а	d	g	g	f	f	f	а
K15-FA	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Nederlandse Aardolie Maatschappij B.V.	producing												174.22	189.85	>200	f	f	f	а	d	g	g	f	f	f	а
L10-S2	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	ENGIE E&P Nederland B.V.	production ceased	t											174.31	191.11	>200	g	g	g	а	g	g	g	f	f	f	е
K15-FJ	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Nederlandse Aardolie Maatschappij B.V.	suspended												174.59	189.96	>200	g	g	g	а	g	g	g	f	f	f	е
K15-FN	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Nederlandse Aardolie Maatschappij B.V.	producing												175.21	190.76	>200	f	f	f	а	d	g	g	f	f	f	а
L10-P	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	ENGIE E&P Nederland B.V.	producing												175.35	192.30	>200	f	f	f	а	d	g	g	f	f	f	а
L07-C	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Total E&P Nederland B.V.	producing												175.86	193.34	>200	f	f	f	а	d	g	g	f	f	f	а
L05a-E	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	ENGIE E&P Nederland B.V.	undeveloped, production start expected within 5 years												176.02	194.88	>200	f	f	f	а	d	g	g	f	f	f	а
L10-N	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	ENGIE E&P Nederland B.V.	producing									П			176.45	193.35	>200	f	f	f	а	d	g	g	f	f	f	a
L10-6	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	ENGIE E&P Nederland B.V.	undeveloped, production start unknown												176.45	193.48	>200	g	g	g	а	е	g	g	f	f	f	е
L05a-A	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	ENGIE E&P Nederland B.V.	producing												176.84	195.53	>200	f	f	f	а	d	g	g	f	f	f	а
L10-G	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	ENGIE E&P Nederland B.V.	production ceased	t											176.91	194.23	>200	g	g	g	а	g	g	g	f	f	f	е
L02-FC	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Nederlandse Aardolie Maatschappij B.V.	undeveloped, production start unknown												177.09	195.97	>200	g	g	g	а	е	g	g	f	f	f	е
K15-FQ	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Nederlandse Aardolie Maatschappij B.V.	suspended												177.36	192.70	>200	g	g	g	а	g	g	g	f	f	f	е
L13-FA	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Nederlandse Aardolie Maatschappij B.V.	undeveloped, production start unknown												177.54	193.38	>200	g	g	g	а	е	g	g	f	f	f	е
P02-Delta	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Petrogas E&P Netherlands B.V.	undeveloped, production start unknown												177.77	190.09	>200	g	g	g	а	е	g	g	f	f	f	е
K15-FF	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Nederlandse Aardolie Maatschappij B.V.	undeveloped, production start unknown												177.92	193.34	>200	g	g	g	а	е	g	g	f	f	f	е
L10-CDA	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	ENGIE E&P Nederland B.V.	producing												178.91	195.77	>200	f	f	f	а	d	g	g	f	f	f	а
K18-Golf	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Wintershall Noordzee B.V.	producing												179.28	194.42	>200	f	f	f	а	d	g	g	f	f	f	а



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		b	Part of the baseline but has an ongoing impact and is therefore considered relevant to the cumulative impact assessment: Screened in to assessment.
	In Planning/Consenting/Pre-Construction	c	Potential cumulative impact exists: Screened in to assessment.
	Construction	d	No conceptual effect-receptor pathway: Screened out of assessment.
	Operation and Maintenance	e	Low data confidence: Screened out of assessment.
	Decommissioning	f	No physical effect-receptor overlap: Screened out of assessment.
-		a a	No temporal overlap: Screened out of assessment.

					Constr	uction Peri	od (red c	outline de	notes th	e offshor	re constr	ruction pe	eriod for H	Hornse	ea Four)														
Project	Data Source(s)	Data Confidence Assessment	Notes	Status of Development	2019	2020	2022	2023	2024	2025	2026	2027 2028	2029	2030	2031-2050	Distance from the Hornsea Four Array Area (km)	Distance from the Hornsea Four Offshore Export Cable Corridor (km)	Distance from the Hornsea Four offshore HVAC Booster Station Area (km)	Marine Geology, Oceanography and Physical Processes	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammals (seismic surveys are considered separately)	Offshore and Intertidal Ornithology	Commercial Fisheries	Shipping and Navigation	Aviation and Radar	Marine Archaeology	Seascape and Visual Resources	Infrastructure and Other Users
L10-K	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	ENGIE E&P Nederland B.V.	abandoned												180.56	197.97	>200	g	g	g	а	g	g	g	f	f f		е
L07-F	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Total E&P Nederland B.V.	undeveloped, production start expected within 5 years												181.42	198.97	>200	f	f	f	а	d	g	g	f	f f		a
A18-FA	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Petrogas E&P Netherlands B.V.	producing										L		181.72	198.74	>200	f	f	f	а	d	g	g	f	f f		а
L13-FI	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Nederlandse Aardolie Maatschappij B.V.	undeveloped, production start expected within 5 years												181.81	197.74	>200	f	f	f	а	d	g	g	f	f f		а
F17-SW Culmination	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Wintershall Noordzee B.V.	undeveloped, production start unknown												182.81	>200	>200	g	g	9	а	е	g	g	f	f f		е
F17-Brigantijn (F17-FB)	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Sterling Resources Netherlands B.V.	undeveloped, production start unknown												182.83	>200	>200	g	g	9	а	е	g	g	f	f f		е
Kotter	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Wintershall Noordzee B.V.	production ceased	d											183.84	198.47	>200	g	g	9	а	g	g	g	f	f f		е
F17-Korvet (F17-FA)	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Sterling Resources Netherlands B.V.	undeveloped, production start unknown												183.94	>200	>200	g	g	9	а	е	g	g	f	f f		е
L13-FH	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Nederlandse Aardolie Maatschappij B.V.	abandoned												184.62	>200	>200	g	g	9	а	g	g	g	f	f f		е
K18-FB	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Wintershall Noordzee B.V.	undeveloped, production start unknown												184.70	199.31	>200	g	g	9	а	е	g	g	f	f f		е
L13-FE	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Nederlandse Aardolie Maatschappij B.V.	producing												184.89	>200	>200	f	f	f	а	d	g	g	f	f f		a
L10-19	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	ENGIE E&P Nederland B.V.	undeveloped, production start expected within 5 years												184.97	>200	>200	f	f	f	a	d	g	g	f	f f		a
L02-FA	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Nederlandse Aardolie Maatschappij B.V.	producing												185.44	>200	>200	f	f	f	а	d	g	g	f	f f		a
L13-FC	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Nederlandse Aardolie Maatschappij B.V.	producing												185.66	>200	>200	f	f	f	а	d	g	g	f	f f		a
L13-FB	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Nederlandse Aardolie Maatschappij B.V.	production ceased	d											185.76	>200	>200	g	g	9	а	9	g	g	f	f f		e
L16-FA	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Wintershall Noordzee B.V.	undeveloped, production start unknown												187.00	>200	>200	9	9	9	а	е	g	g	f	f f		e
L05a-D	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	ENGIE E&P Nederland B.V.	undeveloped, production start expected within 5 years												187.09	>200	>200	f	f	f	а	d	g	g	f	f f		f
L05b-A	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Wintershall Noordzee B.V.	undeveloped, production start unknown												187.43	>200	>200	g	g	g	а	е	g	g	f	f f		е
P06-Northwest	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Wintershall Noordzee B.V.	undeveloped, production start unknown												187.63	199.53	>200	g	g	g	а	е	g	g	f	f f		е



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	In Planning/Consenting/Pre-Construction	c	Potential cumulative impact exists: Screened in to assessment.
	Construction	d	No conceptual effect-receptor pathway: Screened out of assessment.
	Operation and Maintenance	e	Low data confidence: Screened out of assessment.
	Decommissioning	f	No physical effect-receptor overlap: Screened out of assessment.
-		a a	No temporal overlap: Screened out of assessment.

					Constru	uction Per	iod (red	outline der	notes th	e offsho	re const	ruction	period fo	or Horns	sea Four)	9				TTO COMP	orar overlap.	Screenea ou	0. 400000.						
Project	Data Source(s)	Data Confidence Assessment	Notes	Status of Development		2020		2023		2025	2026	2027	2029	2030	2031-2050	Distance from the Hornsea Four Array A (km)	Distance from the Hornsea Four Offsho Export Cable Corrido (km)		Marine Geology, Oceanography and Physical Processes	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammals (seismic surveys are considered separately)	Offshore and Intertidal Ornithology	Commercial Fisheries	Shipping and Navigation	Aviation and Radar	Marine Archaeology	Seas cape and Visual Resources	Infrastructure and Other Users
L02-FB	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Nederlandse Aardolie Maatschappij B.V.	producing												187.66	>200	>200	f	f	f	а	d	g	g	f	f	f	а
L11-7	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	ENGIE E&P Nederland B.V.	undeveloped, production start expected within 5 years										L		188.14	>200	>200	f	f	f	a	d	g	9	f	f	f	f
L08-A-West	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Wintershall Noordzee B.V.	producing												188.36	>200	>200	f	f	f	а	d	g	g	f	f	f	a
L13-FJ	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Nederlandse Aardolie Maatschappij B.V.	undeveloped, production start unknown												188.66	>200	>200	g	g	g	а	е	g	g	f	f	f	е
L13-FG	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Nederlandse Aardolie Maatschappij B.V.	suspended												188.74	>200	>200	g	g	9	а	g	g	g	f	f	f	е
L13-FD	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Nederlandse Aardolie Maatschappij B.V.	producing												189.27	>200	>200	f	f	f	а	d	g	g	f	f	f	а
L10-S4	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	ENGIE E&P Nederland B.V.	production ceased												189.30	>200	>200	g	g	g	а	g	g	g	f	f	f	е
L08-A	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Wintershall Noordzee B.V.	production ceased												189.64	>200	>200	g	g	9	а	g	g	g	f	f	f	е
L16-Bravo	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Wintershall Noordzee B.V.	undeveloped, production start unknown												189.66	>200	>200	g	g	g	а	е	g	g	f	f	f	е
L11-1	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	ENGIE E&P Nederland B.V.	undeveloped, production start unknown												189.94	>200	>200	g	g	g	а	е	g	g	f	f	f	е
F17-NE (Rembrandt)	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Wintershall Noordzee B.V.	undeveloped, production start expected within 5 years												190.00	>200	>200	f	f	f	а	d	g	g	f	f	f	f
F14-FA	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		undeveloped, production start unknown												190.19	>200	>200	g	g	g	а	е	g	g	f	f	f	е
L16-Alpha	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Wintershall Noordzee B.V.	undeveloped, production start unknown												190.27	>200	>200	g	g	g	а	е	g	g	f	f	f	е
L08-D	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Oranje-Nassau Energie B.V.	producing												190.57	>200	>200	f	f	f	а	d	g	g	f	f	f	а
P06-Main	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Wintershall Noordzee B.V.	producing												191.17	>200	>200	f	f	f	а	d	g	g	f	f	f	a
L13-FF	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Nederlandse Aardolie Maatschappij B.V.	producing												192.38	>200	>200	f	f	f	а	d	g	g	f	f	f	a
L13-FK	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Nederlandse Aardolie Maatschappij B.V.	undeveloped, production start unknown												192.66	>200	>200	g	g	g	а	е	g	g	f	f	f	е
L11-Lark	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	ENGIE E&P Nederland B.V.	abandoned												192.71	>200	>200	g	g	g	а	g	g	g	f	f	f	е
Q01-Northwest	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Petrogas E&P Netherlands B.V.	undeveloped, production start expected within 5 years												192.93	>200	>200	f	f	f	а	d	9	9	f	f	f	f
L08-P	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Wintershall Noordzee B.V.	producing												192.95	>200	>200	f	f	f	а	d	g	g	f	f	f	a



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	g g	No temporal overlap: Screened out of assessment.

					Constr	uction Peri	od (red	outline de	enotes th	he offsho	ore cons	struction	period fo	or Horns	sea Four)														
Project	Data Source(s)	Data Confidence Assessment	Notes	Status of Development	2019	2020	2022	2023	2024	2025	2026	2027	2029	2030	2031-2050	Distance from the Hornsea Four Array Area (km)	Distance from the Hornsea Four Offshore Export Cable Corridor (km)	Distance from the Hornsea Four offshore HVAC Booster Station Area (km)	Marine Geology, Oceanography and Physical Processes	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammals (seismic surveys are considered separately)	Offshore and Intertidal Ornithology	Commercial Fisheries	Shipping and Navigation	Aviation and Radar	Marine Archaeology	Seas cape and Visual Resources	Infrastructure and Other Users
L11a-A	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	ENGIE E&P Nederland B.V.	abandoned												193.61	>200	>200	g	g	g	а	g	g	g	f	f	f	е
L11b-A	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Oranje-Nassau Energie B.V.	production ceased												194.45	>200	>200	g	g	g	а	g	g	g	f	f	f	е
L05-B	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Wintershall Noordzee B.V.	producing												196.74	>200	>200	f	f	f	a	d	9	g	f	f	f	а
B16-FA	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Petrogas E&P Netherlands B.V.	undeveloped, production start unknown												196.91	>200	>200	g	g	g	а	е	9	g	f	f	f	е
L08-H	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Wintershall Noordzee B.V.	production ceased	1											197.34	>200	>200	g	g	g	а	9	g	g	f	f	f	е
L14-FA	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Transcanada International Ltd.	abandoned												197.73	>200	>200	g	g	g	а	g	g	g	f	f	f	е
L11-Gillian	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Oranje-Nassau Energie B.V.	undeveloped, production start expected within 5 years												198.10	>200	>200	f	f	f	а	d	g	g	f	f	f	f
L08-G	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Wintershall Noordzee B.V.	production ceased												198.10	>200	>200	g	g	g	а	g	g	g	f	f	f	е
A15-A	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Petrogas E&P Netherlands B.V.	undeveloped, production start expected within 5 years												198.23	>200	>200	f	f	f	а	d	g	g	f	f	f	f
Haven	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Petrogas E&P Netherlands B.V.	producing										Г		198.25	>200	>200	f	f	f	a	d	g	g	f	f	f	а
P06-D	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Wintershall Noordzee B.V.	producing												198.29	>200	>200	f	f	f	a	d	9	g	f	f	f	а
L05-C	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Wintershall Noordzee B.V.	producing												199.72	>200	>200	f	f	f	a	d	9	g	f	f	f	a
L14-FB	NLOG	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	ENGIE E&P Nederland B.V.	undeveloped, production start unknown												199.98	>200	>200	g	g	g	а	е	9	g	f	f	f	е



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Operation and Maintenance	e	Low data confidence: Screened out of assessment.
Decommissioning		No physical effect-receptor overlap: Screened out of assessment.
	g	No temporal overlap: Screened out of assessment.

					Construction	Period (red	d outline de	notes the	offshore con	struction	period for H	ornsea Fo	our)													
Port	Data Source(s)	Data Confidence Assessment	Country	Status of Development	2019 2020	2021	2022	2024	2025 2026	2027	2028 2029	2030	Distance from the Hormsea Four Array Area (km)	Distance from the Hornsea Four Offshore Export Cable Corridor (km)	Distance from the Homsea Four offshore HVAC Booster Station Area (km)	Marine Geology, Oceanography and Physical Processes	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammals	Offshore and Intertidal Ornithology	Commercial Fisheries	Shipping and Navigation	Aviation and Radar	Marine Archaeology	Seascape and Visual Resources	Infrastructure and Other Users
United Kingdom	1													1	1											
BRIDLINGTON	World Ports Index	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.	GB	Active									73.00	4.46	32.79	а	а	а	а	a a	а	а	a a	f	а	
SCARBOROUGH	World Ports Index	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.	GB	Active									85.91	30.18	52.10	а	f	а	а	a a	а	а	a a	f	а	
GRIMSBY	World Ports Index	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.	GB	Active									92.24	48.61	58.88	а	f	а	а	a a	a	а	a a	f	а	
KINGSTON UPON HULL	World Ports Index	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.	GB	Active									93.51	31.35	52.56	а	f	а	а	a a	а	а	a a	f	a	
IMMINGHAM	World Ports Index	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.	GB	Active									95.67	43.75	58.56	а	f	а	а	a a	а	а	a a	f	a	
NEW HOLLAND	World Ports Index	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.	GB	Active									101.04	37.94	60.37	а	f	а	а	a a	а	а	a a	f	а	
WHITBY	World Ports Index	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.	GB	Active									103.92	56.38	75.72	а	f	а	а	a a	а	а	a a	f	a	
GOOLE	World Ports Index	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.	GB	Active									127.97	54.77	85.76	а	f	а	а	a a	а	а	a a	f	а	
HOWDENDYKE	World Ports Index	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.	GB	Active									129.31	54.95	87.03	а	f	а	а	a a	а	а	a a	f	а	
TEESPORT	World Ports Index	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.	GB	Active									141.45	90.91	113.77	а	f	а	а	a a	а	а	a a	f	а	
BOSTON	World Ports Index	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.	GB	Active									141.62	117.24	123.78	а	f	а	а	a a	а	а	a a	f	a	
HARTLEPOOL	World Ports Index	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.	GB	Active									146.39	97.23	119.57	a	f	а	а	a a	а	а	a a	f	a	
GREAT YARMOUTH	World Ports Index	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.	GB	Active									149.88	140.00	145.36	а	f	а	а	a a	а	а	a a	f	а	
KING'S LYNN	World Ports Index	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.	GB	Active									155.38	155.51	182.64	а	f	а	а	a a	а	а	a a	f	а	
SEAHAM	World Ports Index	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.	GB	Active									160.07	114.12	135.27	а	f	а	а	a a	а	а	a a	f	а	
LOWESTOFT	World Ports Index	1	GB	Active									165.07	151.18	155.55	а	f	а	а	a a	а	а	a a	f	а	
WISBECH	World Ports Index	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.	GB	Active									167.02	123.38	143.59	а	f	а	а	a a	а	а	a a	f	а	
SUNDERLAND	World Ports Index	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.	GB	Active									170.17	170.29	196.34	а	f	а	а	a a	а	а	a a	f	а	
TYNEMOUTH	World Ports Index	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.	GB	Active									173.29	132.09	151.29	а	f	а	а	a a	а	а	a a	f	а	
BLYTH	World Ports Index	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.	GB	Active									185.43	146.37	164.81	а	f	а	а	a a	а	а	a a	f	а	
WARKWORTH HARBOUR	World Ports Index	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.	GB	Active									203.45	169.42	185.84	а	f	а	а	a a	а	а	a a	f	а	
MANCHESTER	World Ports Index	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.	GB.	Active									224.44	148.44	181.28	а	f	а	а	a a	a	а	a a	f	а	



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Port	Data Source(s)	Data Confidence Assessment	Country	Status of Development	2019	2020	2022	2023	2024	2025	2026	7707	2029	2030	2031-2050	Distance from the Hornsea Four Array Area (km)	Distance from the Hornsea Four Offshore Export Cable Corridor (km)	Distance from the Hornsea Four offshore HVAC Booster Station Area (km)	Marine Geology, Oceanography and Physical Processes	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammals	Offshore and Intertidal Ornithology	Commercial Fisheries	Shipping and Navigation	Aviation and Radar	Marine Archaeology	Seascape and Visual Resources	Infrastructure and Other Users
LANCASTER	World Ports Index	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.	GB	Active												242.34	168.45	202.35	а	f	а	а	а	а	а	а	а	f	a
HEYSHAM	World Ports Index	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.	GB	Active												251.23	177.22	211.17	а	f	а	а	а	а	а	а	а	f	а
FLEETWOOD	World Ports Index	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.	GB	Active												259.44	184.46	218.69	а	f	а	а	а	a	a	a	а	f	a
GARLSTON	World Ports Index	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.	GB	Active												269.09	192.97	225.95	а	f	а	а	а	a	a	a	а	f	a
BARROW IN FURNESS	World Ports Index	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.	GB	Active												271.11	198.01	231.67	а	f	а	а	а	а	а	a	а	f	a
LIVERPOOL	World Ports Index	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.	GB	Active												272.57	196.24	229.60	а	f	а	а	а	а	а	а	а	f	a

### Volume A4, Annex 5.3: Offshore Cumulative Effects: Assessment Matrices - Military, Aviation and Radar



	In Planning/Consenting/Pre-Co Construction Operation and Maintenance Decommissioning	onstruction			Constitut	aion reno	ou free out	ine dend	otes tile t	onsnore d	JOHESH WCHO	л репос	or normse	a b c d d e f	Pai	Included rt of the baseline but has an o	ongoing impa P No c	ct and is there otential cumu conceptual effi Low data o physical effe	offore consider lative impact ect-receptor p confidence: ct-receptor ov	red relevant t exists: Scre pathway: Scr Screened o verlap: Scre	red within the c to the cumulative pened in to ass reened out of out of assessmened out of as but of assessment of assessment	tive impact ass sessment. f assessment. ment. assessment.	sessment: So		o assessmen	t.	
Project	Data Source(s)	Data Confidence Assessment	Notes	Status of Development	2019	2021	2022	2024	2025	2026	2027	2029	2030	Distance from the Hornsea Four Array Are (km)	Distance from the Hornsea Four Offshore Export Cable Corridor (km)	Distance from the Hornsea Four offshore HVAC Booster Station Area (km)	Marine Geology, Oceanography and Physical Processes	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammals	Offshore and Intertidal Ornithology	Commercial Fisheries	Shipping and Navigation	Aviation and Radar	Marine Archaeology	Seascape and Visual Resources	Infrastructure and Other Users
United Kingdom																											
UK Military Bases	Royal Navy Data	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.	The three main Naval Bases are the home to the Royal Navy's surface and submarine fleet of ships. Portsmouth, Devonport and Clyde Naval Bases offer support to their base ships in the areas of personnel, engineering and supplies. Yeovilton air station is base to RN Naval Helicopter Squadrons and other fixed wing aircraft. Cultorse air station supports the Anti-Submarine Warfare and Airborne Early Warning Helicopter Squadrons of the Royal Navy. The principal function of Dartmouth College is the training of young officers for service in the Royal Navy. HMS COLLINGWOOD (FAREHAM), HMS Excellent (Portsmouth), HMS Raleigh (Torpoint), HMS Sultan (Gosport), and HMS Temeraire (Portsmouth) are also important UK naval establishments.	Operational										N/A	N/A	N/A	a	a	a	a	d	a	f	a	а	đ	



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														b	Pa	art of the baseline but has an o	ongoing impa	act and is ther	efore conside	red relevant	to the cumula	ative impact a	ssessment: §	creened in t	o assessme	nt.	
	In Planning/Consenting/Pre-0	Construction												С			F	Potential cumu	lative impact	exists: Scre	ened in to a	ssessment.					
	Construction													d			No	conceptual efi	ect-receptor <sub>l</sub>	athway: Sc	reened out o	of assessmen	ıt.				
	Operation and Maintenance													е				Low data	confidence:	Screened of	ut of assess	ment.					
	Decommissioning													f			N					assessment.					
				_										g				No temp	oral overlap:	Screened o	ut of assess	ment.					
		_			Constitu	ction Period	(rea outilité	ruellotes	and	ie constitu	action per	iou ioi iii	orrisea			_											
Project	Data Source(s)	Data Confidence Assessment	Notes	Status of Development	2019	2021	2022	2024	2025 2026	2027	2028	2029 2030	2031-2050	Distance from the Hornsea Four Array Area (km)		Distance from the Hornsea Four offshore HVAC Booster Station Area (km)	Marine Geology, Oceanography and Physical Processes	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammals	Offshore and Intertidal Ornithology	Commercial Fisheries	Shipping and Navigation	Aviation and Radar	Marine Archaeology	Seascape and Visual Resources	Infrastructure and Other
Jnited Kingdom			·																								
orkshire Harbour and Marina - Bridlington	East Riding of Yorkshire Council	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Project on hold.	In planning										73.00	4.46	32.79	g	g	g	е	d	g	g	g	g	f	d



	a	9	Included as part of the topic baseline and hence not considered within the cumulative impact assessment.
	b	)	Part of the baseline but has an ongoing impact and is therefore considered relevant to the cumulative impact assessment: Screened in to assessment.
In Planning/Consenting/Pre-Construction		;	Potential cumulative impact exists: Screened in to assessment.
Construction	d	d	No conceptual effect-receptor pathway: Screened out of assessment.
Operation and Maintenance	е	e	Low data confidence: Screened out of assessment.
Decommissioning	f		No physical effect-receptor overlap: Screened out of assessment.
	g	]	No temporal overlap: Screened out of assessment.

				Constructi	on Perio	d (red outl	line deno	otes the c	offshor	re constr	uction pe	eriod for I	Hornsea	Four)														
Project	Data Source(s)	Data Confidence Assessment	Status of Development	2019	2021	2022	2023	2024	2025	2026	2028	2029	2030	2031-2050	Distance from the Hornsea Four Array Area (km)	Distance from the Hornsea Four Offshore Export Cable Corridor (km)	Distance from the Hornsea Four offshore HVAC Booster Station Area (km)	Marine Geology, Oceanography and Physical Processes	senthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammals	Offshore and Intertidal Ornithology	Commercial Fisheries	Shipping and Navigation	Aviation and Radar	Marine Archaeology	Seascape and Visual Resources	nfrastructure and Other Users
United Kingdom																			ш									=
Aln Estuary MCZ	Natural England	High - Third party project details published in the public domain and confirmed as being 'accurate' by Natural England.	Active												212.00	174.80	190.95	d	d	d	d	d	b	d	d	d	d	d
Cumbria Coast MCZ	Natural England	High - Third party project details published in the public domain and confirmed as being 'accurate' by Natural England.	Active												283.47	213.00	246.53	d	d	d	d	d	b	d	d	d	d	d
Swallow Sand MCZ	Natural England	High - Third party project details published in the public domain and confirmed as being 'accurate' by Natural England.	Active												143.80	158.35	158.35	d	d	d	d	d	b	d	d	d	d	d
Farnes East MCZ	Natural England	High - Third party project details published in the public domain and confirmed as being 'accurate' by Natural England.	Active												200.20	173.47	184.90	d	d	d	d	d	b	d	d	d	d	d
North East of Farnes Deep MCZ	Natural England	High - Third party project details published in the public domain and confirmed as being 'accurate' by Natural England.	Active												184.40	177.89	181.51	d	d	d	d	d	b	d	d	d	d	d
Holderness Inshore MCZ	Natural England	High - Third party project details published in the public domain and confirmed as being 'accurate' by Natural England.	Active												70.71	4.90	29.23	d	d	d	d	d	b	d	d	d	d	d
Cromer Shoal Chalk Beds MCZ	Natural England	High - Third party project details published in the public domain and confirmed as being 'accurate' by Natural England.	Active												105.38	104.49	121.91	d	d	d	d	d	b	d	d	d	d	d
Runswick Bay MCZ	Natural England	High - Third party project details published in the public domain and confirmed as being 'accurate' by Natural England.	Active				Т								111.40	61.03	80.62	d	d	d	d	d	b	d	d	d	d	d
Coquet to St Mary's MCZ	Natural England	High - Third party project details published in the public domain and confirmed as being 'accurate' by Natural England.	Active				Т								176.50	134.50	152.34	d	d	d	d	d	b	d	d	d	d	d
Fylde MCZ	Natural England	High - Third party project details published in the public domain and confirmed as being 'accurate' by Natural England.	Active				Т								267.24	191.79	226.87	d	d	d	d	d	b	d	d	d	d	d
West of Walney MCZ	Natural England	High - Third party project details published in the public domain and confirmed as being 'accurate' by Natural England.	Active				Т								282.03	208.84	243.41	d	d	d	d	d	b	d	d	d	d	d
Markham's Triangle MCZ	Natural England	High - Third party project details published in the public domain and confirmed as being 'accurate' by Natural England.	Active												63.85	77.46	134.24	d	d	d	d	d	b	d	d	d	d	d
Holderness Offshore MCZ	Natural England	High - Third party project details published in the public domain and confirmed as being 'accurate' by Natural England.	Active												29.34	1.28	10.41	d	d	d	d	d	b	d	d	d	d	d
Cumbria Coast MCZ	Natural England	High - Third party project details published in the public domain and confirmed as being 'accurate' by Natural England.	Active												283.47	213.00	246.53	d	d	d	d	d	b	d	d	d	d	d
Ribble Estuary MCZ	Natural England	High - Third party project details published in the public domain and confirmed as being 'accurate' by Natural England.	Active												236.91	160.86	195.89	d	d	d	d	d	b	d	d	d	d	d
Berwick to St Mary's MCZ	Natural England	High - Third party project details published in the public domain and confirmed as being 'accurate' by Natural England.	Active												176.50	134.50	152.34	d	d	d	d	d	b	d	d	d	d	d
Wyre-Lune MCZ	Natural England	High - Third party project details published in the public domain and confirmed as being 'accurate' by Natural England.	Active												242.74	168.96	203.64	d	d	d	d	d	b	d	d	d	d	d
Shell Flat and Lune Deep SAC	Joint Nature Conservation Committee	High - Third party project details published in the public domain and confirmed as being 'accurate' by the JNCC.	Active												264.09	189.44	224.41	d	d	d	d	d	b	d	d	d	d	d



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In Planning/Consenting/Pre-Construction	c	Potential cumulative impact exists: Screened in to assessment.
Construction	d	No conceptual effect-receptor pathway: Screened out of assessment.
Operation and Maintenance	е	Low data confidence: Screened out of assessment.
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<u> </u>	9	No temporal overlap: Screened out of assessment.

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Project	Data Source(s)	Data Confidence Assessment	Status of Development	2019	2021	2022	2023	2025	2026	2027	2029	2030	2031-2050	Distance from the Hornsea Four Array Area (km)	Distance from the Hornsea Four Offshore Export Cable Corridor (km)	Distance from the Hornsea Four offshore HVAC Booster Station Area (km)	Marine Geology, Oceanography and Physical Processes	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammals	Offshore and Intertidal Ornithology	Commercial Fisheries	Shipping and Navigation	Aviation and Radar	Marine Archaeology	Seascape and Visual Resources	Infrastructure and Other Users
Morecambe Bay SAC	Joint Nature Conservation Committee	High - Third party project details published in the public domain and confirmed as being 'accurate' by the JNCC.	Active				Т							241.15	168.23	202.61	d	d	d	d	d	b	d	d	d	d	d
North Norfolk Coast SAC	Joint Nature Conservation Committee	High - Third party project details published in the public domain and confirmed as being 'accurate' by the JNCC.	Active											113.96	111.91	120.09	d	d	d	d	d	b	d	d	d	d	d
Drigg Coast SAC	Joint Nature Conservation Committee	High - Third party project details published in the public domain and confirmed as being 'accurate' by the JNCC.	Active											279.27	209.01	242.45	d	d	d	d	d	b	d	d	d	d	d
Humber Estuary SAC	Joint Nature Conservation Committee	High - Third party project details published in the public domain and confirmed as being 'accurate' by the JNCC.	Active											79.76	32.21	49.20	d	d	d	d	d	b	d	d	d	d	d
Berwickshire and North Northumberland Coast SAC	Joint Nature Conservation Committee	High - Third party project details published in the public domain and confirmed as being 'accurate' by the JNCC.	Active											204.70	171.08	185.79	d	d	d	d	d	b	d	d	d	d	d
The Wash and North Norfolk Coast SAC	Joint Nature Conservation Committee	High - Third party project details published in the public domain and confirmed as being 'accurate' by the JNCC.	Active				Т							105.38	100.09	104.13	d	d	d	d	d	b	d	d	d	d	d
Dee Estuary/ Aber Dyfrdwy SAC	Joint Nature Conservation Committee	High - Third party project details published in the public domain and confirmed as being 'accurate' by the JNCC.	Active				Т							273.99	197.63	232.04	d	d	d	d	d	b	d	d	d	d	d
Dogger Bank SAC	Joint Nature Conservation Committee	High - Third party project details published in the public domain and confirmed as being 'accurate' by the JNCC.	Active				Т							31.17	49.05	72.99	d	d	d	d	d	b	d	d	d	d	d
Haisborough, Hammond and Winterton SAC	Joint Nature Conservation Committee	High - Third party project details published in the public domain and confirmed as being 'accurate' by the JNCC.	Active				Т							108.62	108.85	138.99	d	d	d	d	d	b	d	d	d	d	d
Inner Dowsing, Race Bank and North Ridge SAC	Joint Nature Conservation Committee	High - Third party project details published in the public domain and confirmed as being 'accurate' by the JNCC.	Active				Т							72.10	64.97	73.26	d	d	d	d	d	b	d	d	d	d	d
North Norfolk Sandbanks and Saturn Reef SAC	Joint Nature Conservation Committee	High - Third party project details published in the public domain and confirmed as being 'accurate' by the JNCC.	Active											33.94	34.80	85.71	d	d	d	d	d	b	d	d	d	d	d
Southern North Sea SAC	Joint Nature Conservation Committee	High - Third party project details published in the public domain and confirmed as being 'accurate' by the JNCC.	Active											0.00	0.00	5.18	d	d	d	d	d	b	d	d	d	d	d
Flamborough Head SAC	Joint Nature Conservation Committee	High - Third party project details published in the public domain and confirmed as being 'accurate' by the JNCC.	Active											63.90	1.45	20.81	d	d	d	d	d	b	d	d	d	d	d
Outer Thames Estuary SPA	Joint Nature Conservation Committee	High - Third party project details published in the public domain and confirmed as being 'accurate' by the JNCC.	Active											151.28	151.41	178.93	d	d	d	d	d	b	d	d	d	d	d
Liverpool Bay / Bae Lerpwl SPA	Joint Nature Conservation Committee	High - Third party project details published in the public domain and confirmed as being 'accurate' by the JNCC.	Active											261.75	187.48	222.38	d	d	d	d	d	b	d	d	d	d	d
Morecambe Bay and Duddon Estuary SPA	Joint Nature Conservation Committee	High - Third party project details published in the public domain and confirmed as being 'accurate' by the JNCC.	Active											241.15	168.22	202.60	d	d	d	d	d	b	d	d	d	d	d
Northumbria Coast SPA	Joint Nature Conservation Committee	High - Third party project details published in the public domain and confirmed as being 'accurate' by the JNCC.	Active											156.20	102.64	125.07	d	d	d	d	d	b	d	d	d	d	d
The Wash SPA	Joint Nature Conservation Committee	High - Third party project details published in the public domain and confirmed as being 'accurate' by the JNCC.	Active											117.47	103.31	107.12	d	d	d	d	d	b	d	d	d	d	d



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	9	No temporal overlap: Screened out of assessment.
	- - - -	a b c d e f

				Construction Period (red outline denotes the offshore construction period for Hornsea Four)																							
Project	Data Source(s)	Data Confidence Assessment	Status of Development	2019	2021	2022	2023	2025	2026	2027	2029	2030	2031-2050	Distance from the Hornsea Four Array Area (km)	Distance from the Hornsea Four Offshore Export Cable Corridor (km)	Distance from the Hornsea Four offshore HVAC Booster Station Area (km)	Marine Geology, Oceanography and Physical Processes	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammals	Offshore and Intertidal Ornithology	Commercial Fisheries	Shipping and Navigation	Aviation and Radar	Marine Archaeology	Seascape and Visual Resources	Infrastructure and Other Users
Minsmere-Walberswick SPA	Joint Nature Conservation Committee	High - Third party project details published in the public domain and confirmed as being 'accurate' by the JNCC.	Active											184.91	184.93	207.41	d	d	d	d	d	b	d	d	d	d	d
The Dee Estuary SPA	Joint Nature Conservation Committee	High - Third party project details published in the public domain and confirmed as being 'accurate' by the JNCC.	Active											281.56	205.66	239.33	d	d	d	d	d	b	d	d	d	d	d
Breydon Water SPA	Joint Nature Conservation Committee	High - Third party project details published in the public domain and confirmed as being 'accurate' by the JNCC.	Active											154.71	154.82	180.22	d	d	d	d	d	b	d	d	d	d	d
Teesmouth and Cleveland Coast SPA	Joint Nature Conservation Committee	High - Third party project details published in the public domain and confirmed as being 'accurate' by the JNCC.	Active											138.80	84.46	106.94	d	d	d	d	d	b	d	d	d	d	d
Humber Estuary SPA	Joint Nature Conservation Committee	High - Third party project details published in the public domain and confirmed as being 'accurate' by the JNCC.	Active											78.00	32.21	48.06	d	d	d	d	d	b	d	d	d	d	d
Coquet Island SPA	Joint Nature Conservation Committee	High - Third party project details published in the public domain and confirmed as being 'accurate' by the JNCC.	Active											204.30	167.75	183.76	d	d	d	d	d	b	d	d	d	d	d
Farne Islands SPA	Joint Nature Conservation Committee	High - Third party project details published in the public domain and confirmed as being 'accurate' by the JNCC.	Active											228.20	198.25	211.74	d	d	d	d	d	b	d	d	d	d	d
Ribble and Alt Estuaries SPA	Joint Nature Conservation Committee	High - Third party project details published in the public domain and confirmed as being 'accurate' by the JNCC.	Active											249.92	173.86	208.89	d	d	d	d	d	b	d	d	d	d	d
Mersey Narrows and North Wirral Foreshore SPA	Joint Nature Conservation Committee	High - Third party project details published in the public domain and confirmed as being 'accurate' by the JNCC.	Active											272.44	196.06	230.55	d	d	d	d	d	b	d	d	d	d	d
Gibraltar Point SPA	Joint Nature Conservation Committee	High - Third party project details published in the public domain and confirmed as being 'accurate' by the JNCC.	Active											114.00	100.09	104.09	d	d	d	d	d	b	d	d	d	d	d
Mersey Estuary SPA	Joint Nature Conservation Committee	High - Third party project details published in the public domain and confirmed as being 'accurate' by the JNCC.	Active											259.38	183.43	217.17	d	d	d	d	d	b	d	d	d	d	d
North Norfolk Coast SPA	Joint Nature Conservation Committee	High - Third party project details published in the public domain and confirmed as being 'accurate' by the JNCC.	Active											113.72	110.81	119.84	d	d	d	d	d	b	d	d	d	d	d
Northumberland Marine SPA	Joint Nature Conservation Committee	High - Third party project details published in the public domain and confirmed as being 'accurate' by the JNCC.	Active											187.30	144.20	162.81	d	d	d	d	d	b	d	d	d	d	d
Greater Wash SPA	Joint Nature Conservation Committee	High - Third party project details published in the public domain and confirmed as being 'accurate' by the JNCC.	Active											63.38	0.35	21.80	d	d	d	d	d	b	d	d	d	d	d
Flamborough and Filey Coast SPA	Joint Nature Conservation Committee	High - Third party project details published in the public domain and confirmed as being 'accurate' by the JNCC.	Active											66.80	2.50	23.96	d	d	d	d	d	b	d	d	d	d	d
Europe	1																										
Klaverbank SAC/SCI	Natura 2000 - European Environment Agency	High - Third party project details published in the public domain and confirmed as being 'accurate' by European Environment Agency.	Active											86.47	102.35	156.25	d	d	d	d	d	b	d	d	d	d	d
Friese Front SPA	Natura 2000 - European Environment Agency	High - Third party project details published in the public domain and confirmed as being 'accurate' by European Environment Agency.	Active											180.67	194.15	251.09	d	d	d	d	d	b	d	d	d	d	d



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Project	Data Source(s)	Data Confidence Assessment	Status of Development	0 202 C	7071 2022	utline der	707 S	offshore c 2029 2030 2030	onstructio	on period	for Horn	Sea Four) 2031-2050	Distance from the Hornsea Four Array Area (km)	Distance from the Hornsea Four Offshore Export Cable Corridor (km)	Distance from the Hornsea Four offshore HVAC Booster Station Area (km)	Marine Geology, Oceanography and Physical Processes	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammals	Offshore and Intertidal Ornithology	Commercial Fisheries	Shipping and Navigation	Aviation and Radar	Marine Archaeology	Seascape and Visual Resources	Infrastructure and Other Users
Doggersbank SAC/SCI	Natura 2000 - European Environment Agency	High - Third party project details published in the public domain and confirmed as being 'accurate' by European Environment Agency.	Active										89.15	106.13	156.59	d	d	d	d	d	b	d	d	d	d	d