

# FIVE ESTUARIES OFFSHORE WIND FARM ENVIRONMENTAL STATEMENT

VOLUME 6, PART 1, ANNEX 3.1: CUMULATIVE EFFECTS ASSESSMENT METHODOLOGY

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# APPENDICES

Appendix A Cumulative Effects Assessment Longlist



# **DEFINITION OF ACRONYMS**

Term	Definition	
CEA	Cumulative Effects Assessment	
ECC	Export Cable Corridor	
EIA	Environmental Impact Assessment	
EN-1	Overarching NPS for Energy	
EN-3	NPS for Renewable Energy Infrastructure	
EN-5	Electricity Networks Infrastructure	
ES	Environmental Statement	
HRA	Habitats Regulations Assessment	
MDS	Maximum Design Scenario	
MHWS	Mean High-Water Springs	
MPS	Marine Policy Statement	
MW	Megawatts	
NPSs	National Policy Statements	
NSIPs	Nationally Significant Infrastructure Projects	
O&M	Operation and Maintenance	
PINS	Planning Inspectorate	
RIAA	Report to Inform the Appropriate Assessment	
VE	Five Estuaries Offshore Wind Farm	
Zol	Zone of Influence	



#### 1 INTRODUCTION

#### 1.1 BACKGROUND

- 1.1.1 Cumulative effects are defined as the effects on a receptor that may arise when the development is considered together with other existing and/ or approved projects, plans and activities. A fundamental requirement of undertaking the Cumulative Effects Assessment (CEA) is to identify those projects, plans and activities with which Five Estuaries Offshore Wind Farm (VE) may interact to produce a cumulative effect. These interactions may arise within the construction and operation and maintenance (O&M) phases of the project. Please note that due to the anticipated lifetime of the project up to 40 years), it is not possible to undertake meaningful assessment of the potential cumulative effects of the decommissioning phase. This is common practice for Offshore Wind Farm (OWF) Nationally Significant Infrastructure Projects (NSIPs).
- 1.1.2 The objective of this document is to provide details on the proposed methodology for VE for each of the assessments, justification for the approach taken regarding cumulative effects, and to detail the longlist of projects, plans and activities that have been considered within the assessments. The approach for assessing cumulative effect is based upon the Planning Inspectorate (PINS) Advice Note 17: Cumulative Effects Assessment, which is described in further detail in Section 2. The approach to the CEA is intended to be specific to VE and takes account of the extensive available knowledge of the environment and other third-party project activities in the vicinity of VE.

#### 1.2 DEFINITIONS OF CUMULATIVE AND IN-COMBINATION EFFECTS FOR VE

- 1.2.1 The Environmental Statement (ES) sets out the preliminary findings of the Environmental Impact Assessment (EIA). The focus of the EIA is on the assessment of the impacts which are likely to have significant effects on the environment including an assessment of cumulative effects. For the purpose of the CEA process, cumulative effects are defined as effects upon certain receptors from VE when considered alongside other proposed developments and any other reasonably foreseeable projects and activities. This includes all projects that result in a comparative or ongoing effect and is not restricted to offshore wind farms, offshore and onshore electrical systems, or projects that are pre-commencement.
- 1.2.2 In-combination effects are defined as the combined effect of VE, with the effects from other projects, on the integrity of European Sites designated for their nature conservation value in terms of the Habitats Regulations Assessment (HRA). The methodology for in-combination effects is bespoke to the HRA process (though it will draw on many of the same data sources presented in this document) and is presented separately within the Report to Inform the Appropriate Assessment (RIAA).
- 1.2.3 Cumulative effects apply in the EIA, whilst in-combination effects apply to the RIAA in HRA terms. These definitions are consistent with those provided in Advice Note 17 (PINS, 2019) and have been applied throughout the PEIR documentation. This document therefore presents the first stages of the CEA for the EIA only.



### 2 POLICY AND LEGISLATIVE CONTEXT

- 2.1.1 The Planning Act 2008 underpins the consenting regime for NSIPs. The Planning Act 2008 sets out thresholds above which certain types of development are classified as NSIPs and therefore require a DCO in England and Wales. For offshore energy developments in English waters (including offshore wind), projects are classed as NSIPs if they have a generating capacity of over 100 megawatts (MW) under section 15(3) of the Planning Act 2008. VE will exceed this generating capacity and therefore is classed as an NSIP.
- 2.1.2 The Infrastructure Planning (Environmental Impact Assessment) Regulations 2017 (the 'EIA Regulations') implement the requirements of the EIA Directive (Directive 2014/52/EU) into UK law in respect of NSIPs. A CEA is required under Schedule 4, Paragraph 5(e) of the EIA Regulations.
- 2.1.3 The National Policy Statements (NPSs) set out national (UK) policy relating to NSIPs. This document refers to the NPSs designated on 17 January 2024.
- 2.1.4 The Overarching NPS for Energy (EN-1) (DESNZ, 2023a) states at paragraph 4.2.12: "Applicants should set out how residual impacts will be compensated for as far as possible. Applicants should also set out how any mitigation or compensation measures will be monitored, and reporting agreed to ensure success and that action is taken. Changes to measures may be needed e.g. adaptive management. The cumulative impacts of multiple developments with residual impacts should also be considered."
- 2.1.5 The NPS for Renewable Energy Infrastructure (EN-3) (DESNZ, 2023b) (states at paragraph 2.8.100: "with increasing deployment of offshore wind to 2030 and beyond, with a likely focus on deployment of fixed offshore wind in the shallow waters of the North Sea, it is likely that the cumulative impact of multiple wind farms and electricity networks infrastructure on the marine environment will increase impacts beyond identified thresholds for increasing numbers of species and habitats, leading to increased requirements for both mitigation and compensation for impacts to be acceptable."
- 2.1.6 The Overarching NPS for Energy, the NPS for Renewable Energy Infrastructure and the NPS for Electricity Networks Infrastructure (EN-5) and their respective drafts identify the need to address the maximum potential adverse impacts. Matters considered to affect the maximum adverse impact are topic impacts, interrelationships between topics, and cumulative effects. The Maximum Design Scenario (MDS), or envelope, is also sometimes referred to as the 'Rochdale Envelope'.
- 2.1.7 PINS has produced 'Advice Note 9: Rochdale Envelope' (2019) 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 in order to ensure a robust application of the Rochdale Envelope principle to the EIA process, this principle must also be applied to the CEA as well as the assessment of project specific, individual effects.



2.1.8 Advice Note 17 (PINS, 2019), which provides guidance on a staged process that can be used for cumulative effects assessments for NSIPs. Advice Note 17 details a fourstep process that can be followed by developers and which has been applied here. The proposed methodology, in accordance with Advice Note 17, is outlined in Section 3.1.2 below.

#### **MARINE POLICY CONTEXT**

2.1.9 The Government's Marine Policy Statement (MPS) sets out the need to address cumulative impacts or effects, stating in paragraph 2.3.2.1: "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

- 3.1.1 The CEA is the subject of detailed discussion between Five Estuaries Offshore Wind Farm Limited (hereafter 'the Applicant') and various statutory and non-statutory authorities and stakeholders. This consultation has been captured under the auspices of the Evidence Plan process, via focused Expert Topic Groups (ETGs).
- 3.1.2 A summary of consultation related to the CEA to date is provided in Volume 6, Part 1, Chapter 3: EIA Methodology.

#### 3.2 OVERVIEW

- 3.2.1 Cumulative effects refer to effects upon receptors arising from VE when considered alongside all existing, and/ or reasonably foreseeable projects, plans and activities that result in a cumulative effect with any element of VE. It should be noted that existing projects are generally considered to be part of the baseline environment, except in cases where there is an ongoing effect; examples are loss of benthic habitat for an existing (offshore wind) project will generally form part of the baseline as the habitat was lost at that stage, whereas ongoing bird collisions associated with the same project would be considered ongoing. The exact approach taken by each technical topic is described within the CEA section of the relevant ES chapter.
- 3.2.2 The cumulative effects arising as a result of VE is a required part of the EIA as described in Section 2. Advice Note 17 (PINS, 2019) provides guidance on a staged process that can be used for CEAs for NSIPs, which is described below in Table 3.1.
- 3.2.3 The following sections set out the VE approach to completing Stages 1 to 3 (as described in Table 3.1 below), incorporating the development of the longlist (Appendix A), tiering of projects and the development of the topic-specific shortlists. These shortlists have been considered in detail in each of the topic-specific ES chapters to complete CEA Stage 4.



Table 3.1: Stages of the CEA proces	S.
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CEA Stage	Activity	
	The project undertakes a desk study to identify the ZoI for the development for the topics that are proposed to be scoped into the EIA. The ZoI analysis is documented (i.e. table of topics and ZoI), with supporting mapping.	
Stage 1 – Establish the project's Zone of	The longlist of other plans and third-party 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.	
Influence (ZoI) and identify a longlist of 'other development'	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).	
	Advice Note 17 notes that the project should then consult with the relevant planning authority/ authorities and statutory consultees regarding the longlist (and ideally prior to the submission of the Scoping Report <sup>1</sup> ).	
Stage 2 – Screening	PINS has provided inclusions/ exclusion threshold criteria (PINS, 2019), against which the potential for 'other development' to give rise to significant cumulative effects by virtue of overlaps in temporal scope, the scale and nature of the 'other developments' and /or receiving environment, or any other relevant factors is assessed.	
of longlist: Identify a shortlist of 'other development' for the CEA	From this assessment, a shortlist of 'other developments' to be included in the CEA is produced. It is noted that documented information on each of the 'other developments' is likely to be high level at this stage, outlining the key issues to take forward.	
	Advice Note 17 (PINS, 2019) 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 gathering	All available information on the 'other developments' within the shortlist generated at Stage 2 is collated to inform the CEA.	

<sup>1</sup> Note: VE did not provide a longlist for consideration at Scoping for cumulative issues, this is/will be prepared for consultation at the PEIR stage following refinement of the Scoping boundary.



CEA Stage	Activity
Stage 4 – Assessment	The project reviews each of the 'other developments' in turn to assess whether cumulative effects may arise. This should also include, where relevant, consideration of any mitigation measures where adverse cumulative effects are identified and should clearly signpost to the relevant means of securing mitigation (e.g. DCO requirements and/or associated mitigation plans).
	It may be appropriate to ascertain the contribution of each development to the effect (via professional judgement) but should not be used as a means to shift the burden of mitigation. This may, however, be useful during the consultation with other developers to identify ways to jointly address mitigation measures to be implemented to reduce likely significant adverse cumulative effects.

# 3.3 STAGE 1 - ESTABLISH THE ZOI AND IDENTIFY THE LONGLIST OF 'OTHER DEVELOPMENT'

#### **DEVELOPING THE LONGLIST**

3.3.1 Under the first stage of the offshore CEA, a longlist of relevant projects, plans and activities occurring within a large study area has been developed around the VE Order Limits (including the array areas, onshore and offshore Export Cable Corridors (ECC), Substation Search Areas and the 400 kV Connection). Depending on the type of project, this generally encompasses a large area of the North Sea (offshore) (Table 3.2) and parts of Essex and Suffolk (onshore) (Table 3.3). The longlist (Appendix A) 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 (October 2023).

#### OFFSHORE

- 3.3.2 The longlist, 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 VE. The longlist has been reviewed since the Preliminary Environmental Information Report (PEIR) consultation for the purpose of the ES, and all relevant changes are captured in the ES chapter assessments.
- 3.3.3 Table 3.2 defines the search area extents that have been applied in developing the longlist of marine projects, plans and activities. It should be noted that the initial screening ranges were 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 use refined ranges depending on topic-specific criteria at Stage 2.
- 3.3.4 All projects, plans and activities within the search areas defined in Table 3.2 have been identified through a desktop study using, among others, the following data sources:
  - > PINS website;



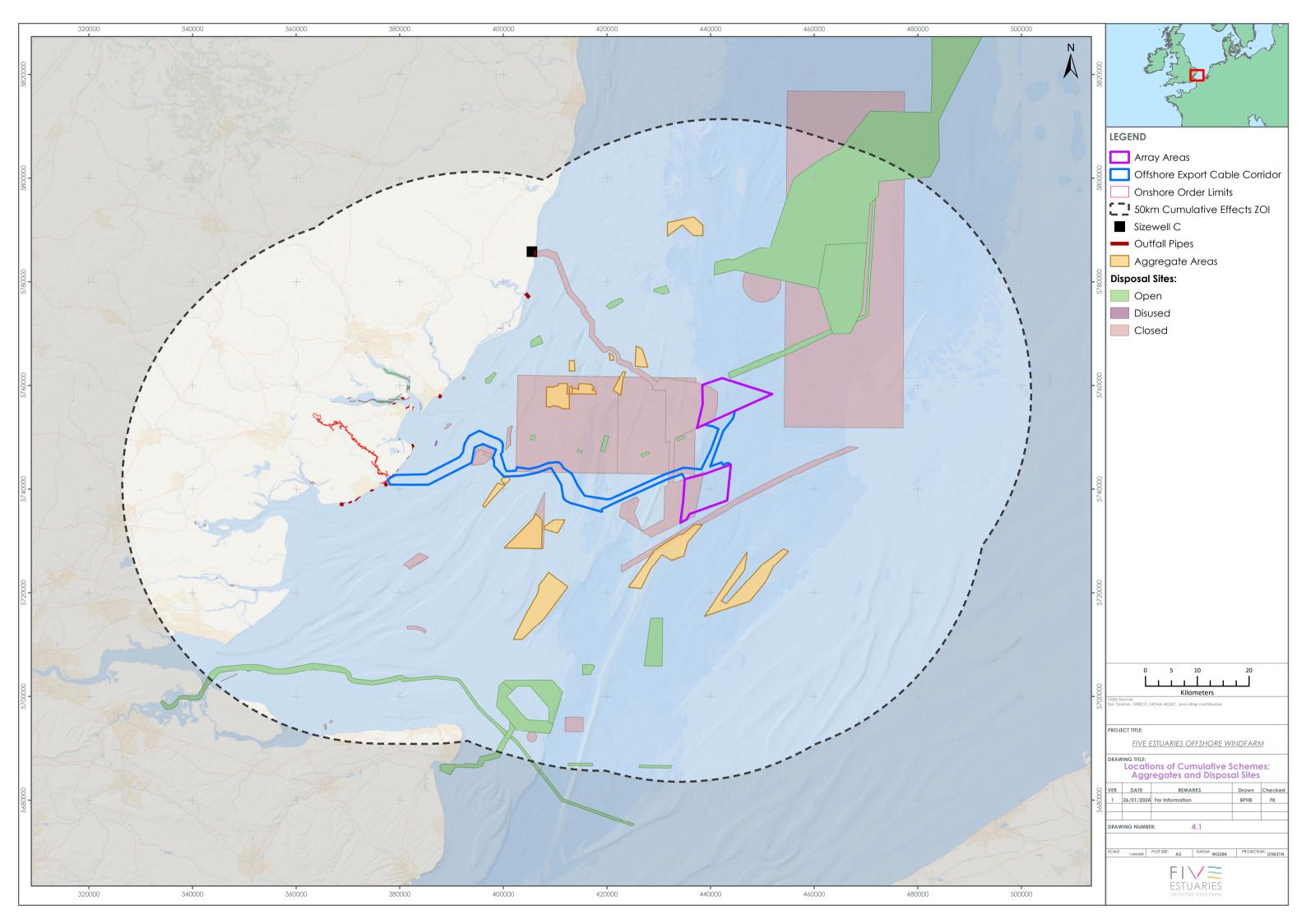
- > The Crown Estate website;
- > The Marine Management Organisation's Marine Case Management System
- > European Marine Observation and Data Network (EMODnet) data;
- > North Sea Transition Authority website; and
- > Developer and project proponent websites.
- 3.3.5 The CEA longlist for projects is presented in Appendix A of this document. All offshore projects, plans and activities considered based on the ZoI criteria listed in Table 3.2 are presented in Figure 3.1 to Figure 3.5.

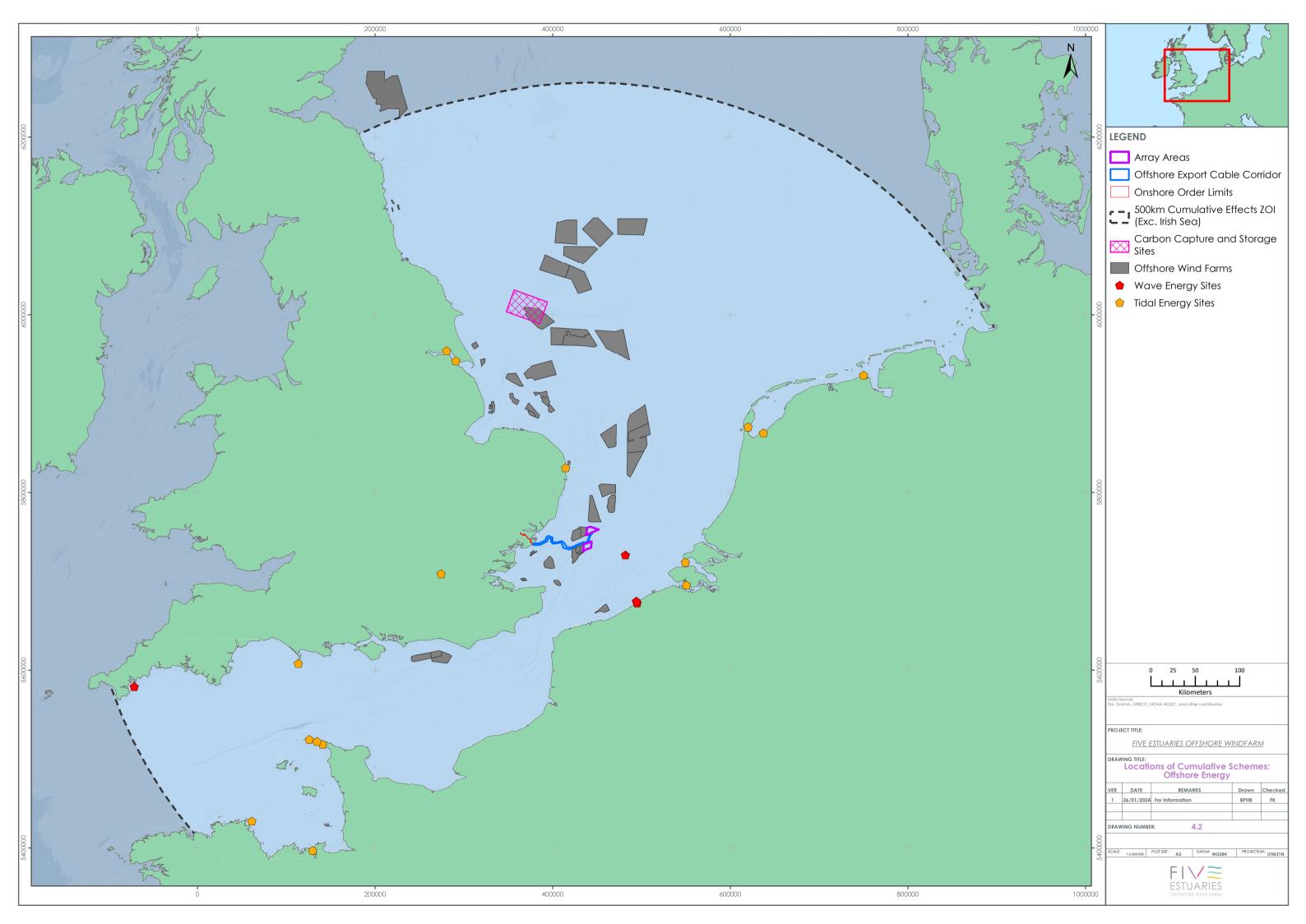
#### Table 3.2: Offshore longlist Zones of Influence

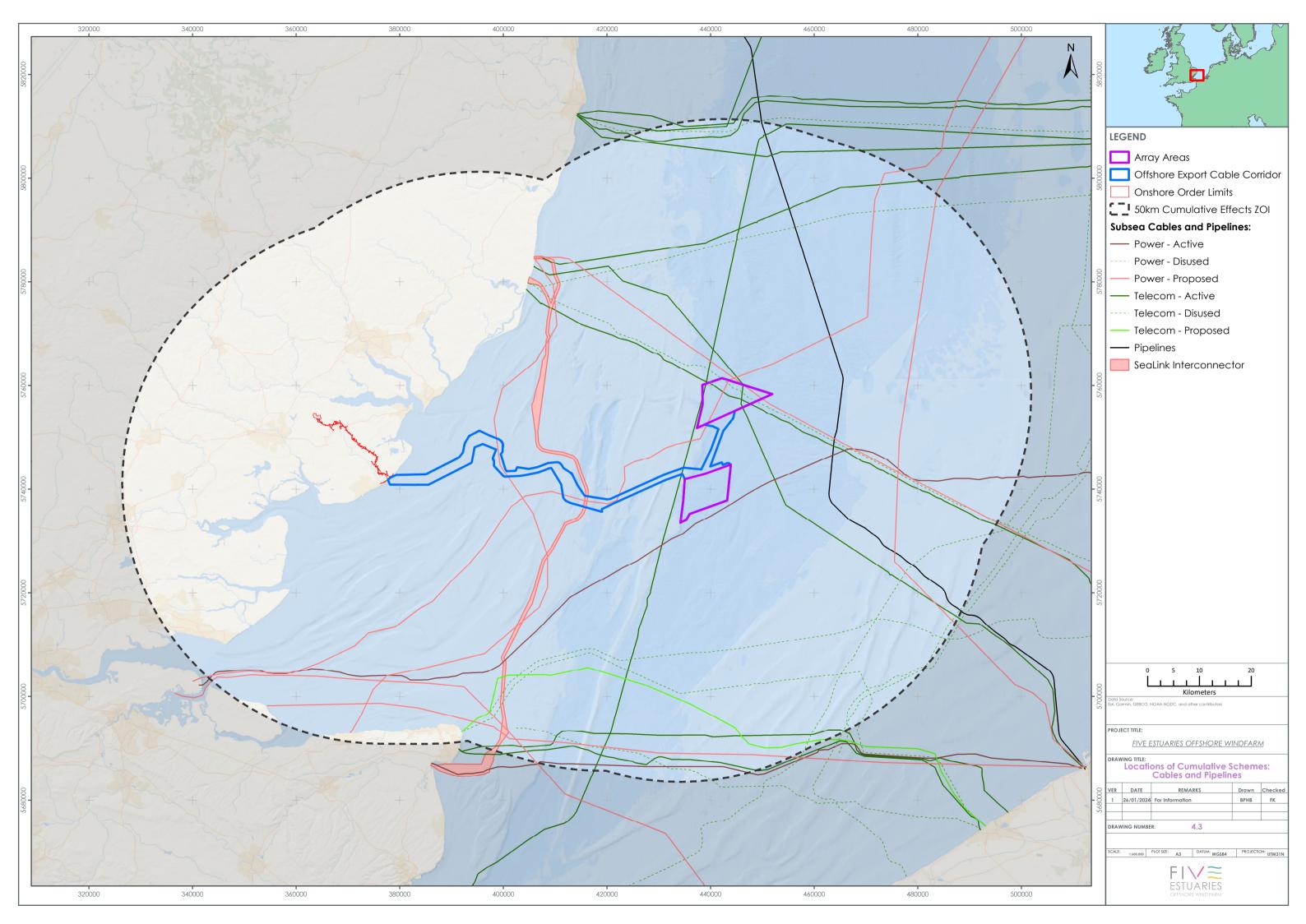
Type of project or activity	Zol criteria	Rationale
Aggregate dredging and disposal	Up to 50 km from VE array areas and offshore ECC.	This range represents a precautionary maximum distance at which effects from aggregate dredging and disposal could occur.
Offshore energy, including Carbon Capture Storage	Up to 500 km from VE array areas and offshore ECC.	This range represents a precautionary maximum distance at which effects from offshore energy could occur.
Commercial fisheries	Up to 200 km from VE array areas 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 VE array areas and offshore ECC.	This range represents a precautionary maximum distance at which effects from oil and gas activities could occur.
Cables and pipelines	Up to 50 km from VE array areas and offshore ECC.	This range represents a precautionary distance at which effects from cables and pipelines could occur.
Shipping, Ports and Harbours	Up to 200 km from VE array areas and offshore ECC.	This range represents a precautionary maximum distance at which effects from commercial shipping activities could occur.

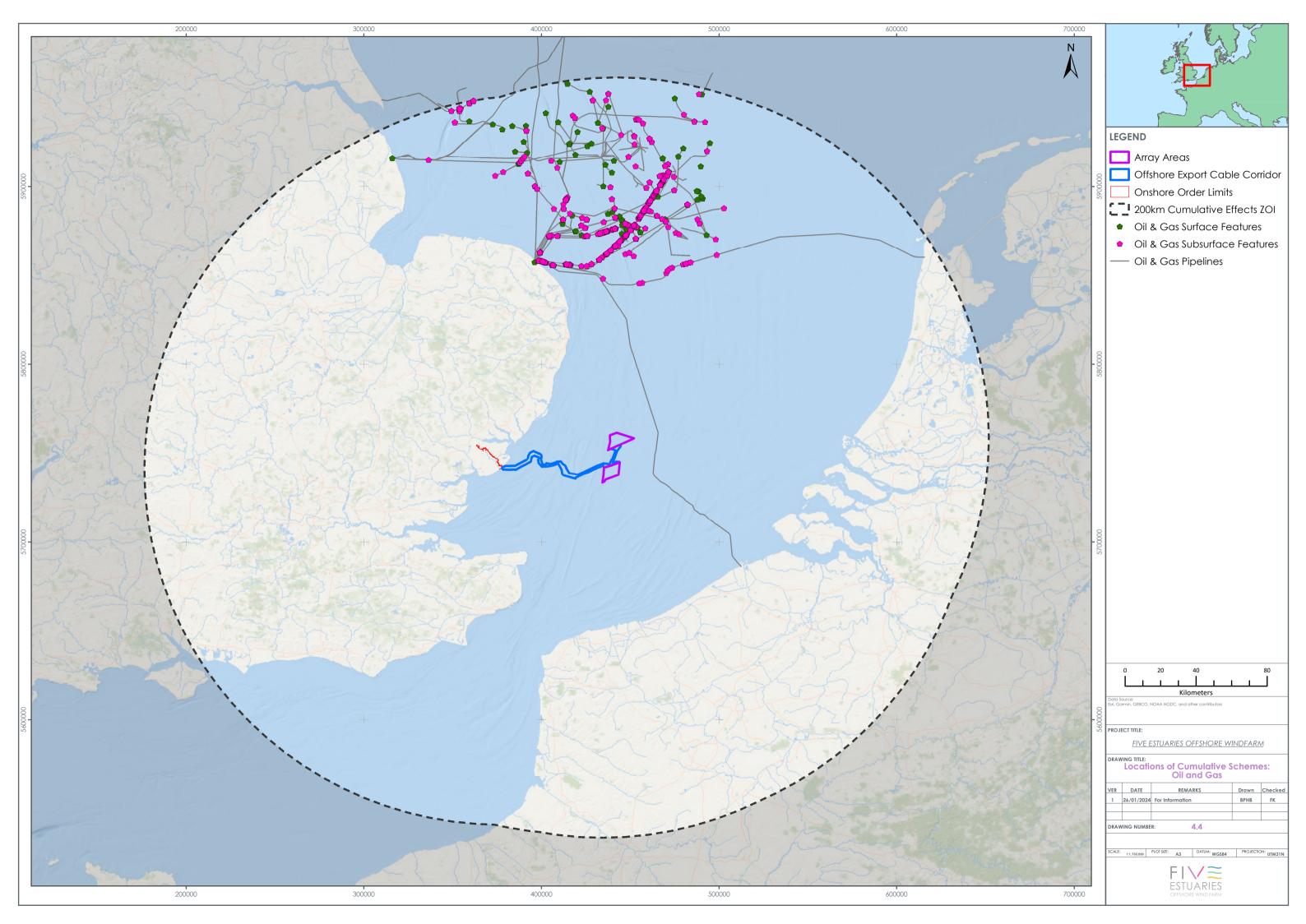


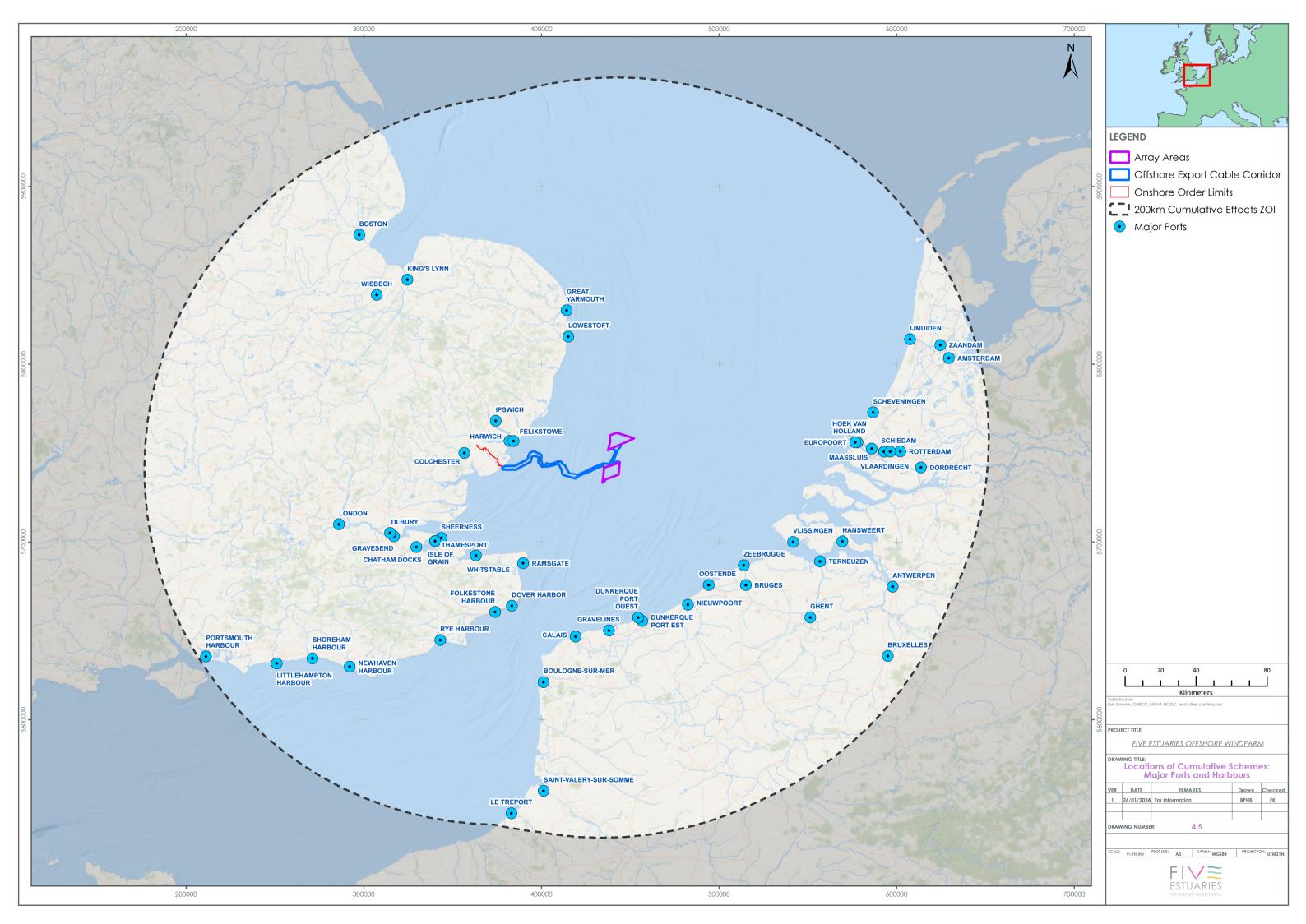
Type of project or activity	Zol criteria	Rationale
Military, aviation and radar	Up to 200 km from VE array areas and offshore ECC.	This range represents a precautionary maximum distance at which effects from military, aviation and radar effects could occur.
Coastal developments	Up to 200 km from VE array areas and offshore ECC.	This range represents a precautionary maximum distance at which effects from major coastal development effects could occur.













#### ONSHORE

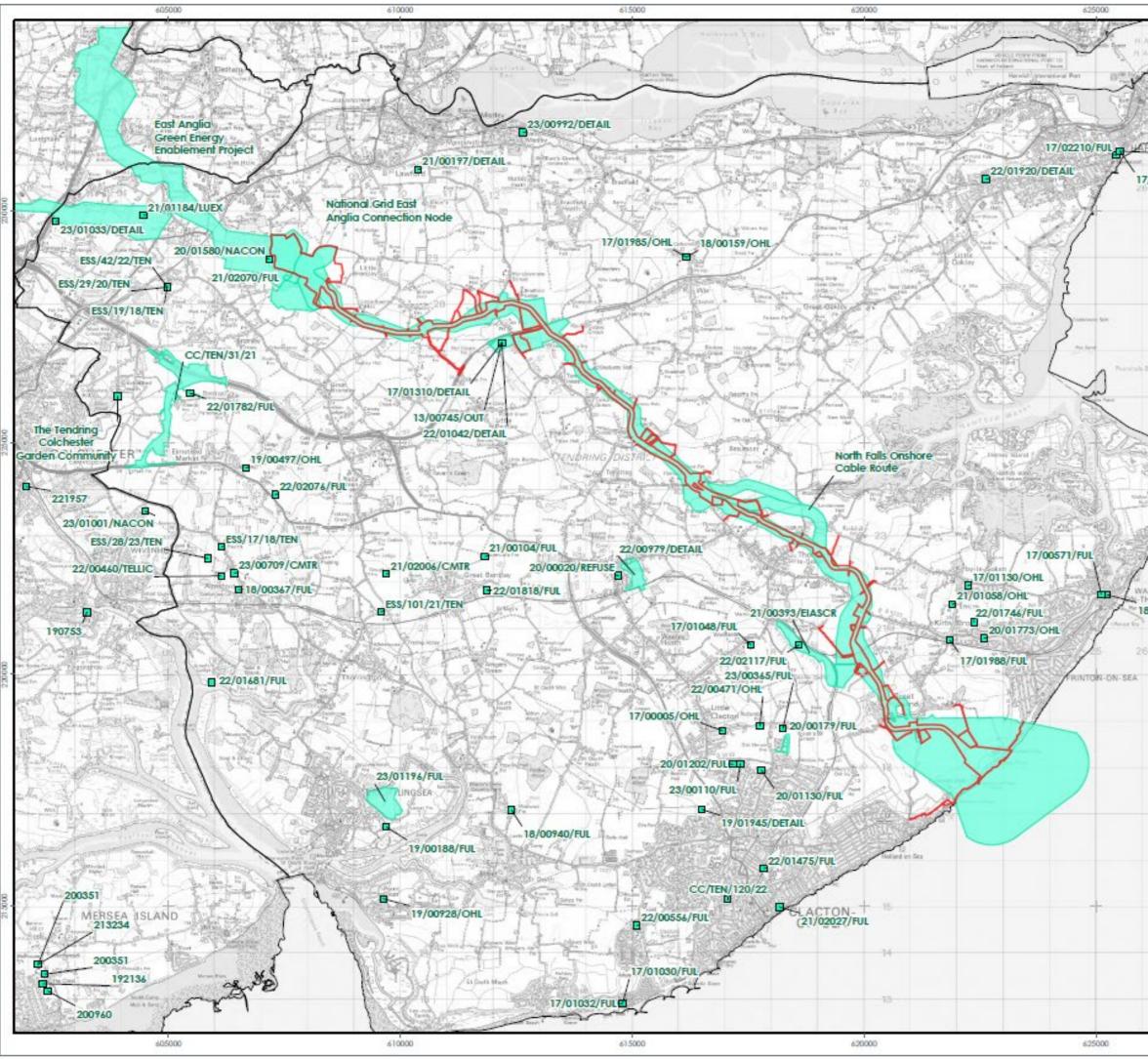
- 3.3.6 Under the first stage of the onshore CEA, a longlist of relevant projects, plans and activities occurring within a study area round the onshore ECC options and onshore substation area of search has been developed from the sources described in the paragraph below. Planning consents granted within the last three years, or applications that have been made and have yet to be determined have been considered.
- 3.3.7 Given the scale of the onshore components of VE, this information was collated from the following publicly available data sources:
  - > PINS website;
  - > Essex County Council;
  - > Tendring District Council;
  - > East Suffolk Council;
  - > Suffolk County Council; and
  - > Colchester Borough Council
- 3.3.8 The CEA longlist for onshore projects is presented in Appendix A of this document. All onshore projects, plans and activities considered based on the ZoI criteria listed in Table 3.3 are presented in Figure 3.6. The longlist also includes applications that have been made and have yet to be determined within the local authority areas. The local authority areas are:
  - > Essex County Council
  - > Tendring District;
  - > East Suffolk District;
  - > Suffolk County Council; and
  - > Colchester Borough

#### Table 3.3: Onshore longlist Zones of Influence

Type of project or activity	Zol criteria	Rationale
Energy generation infrastructure	Installations larger than domestic scale within the local authority areas.	The four local authority areas are considered to represent the realistic worst-
Building/housing developments	Developments of more than five dwellings/units within the local authority areas.	case scenario over which cumulative effects are likely to occur. Since the selection of a single onshore route, the onshore aspects of the scheme are located entirely
Roads	Major or main road installation or upgrade within the local authority areas.	



Type of project or activity	Zol criteria	Rationale
Cable and pipelines	Major cable and pipeline installations and upgrades within the local authority areas.	within Tendring, but the five local authority areas have been retained as the Zol rationale for completeness.
National Grid	Any works within the local authority areas.	
Coastal protection works	Any works within the local authority areas.	



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#### TIERED APPROACH

- 3.3.9 In assessing the potential cumulative effects for VE, it is important to bear in mind that 'proposed' projects, may or may not be, 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 in Advice Note 17 (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.
- 3.3.10 For these reasons, all relevant longlist plans and projects have been allocated into 'Tiers', reflecting their current status within the planning and development process. This has enabled 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 VE. When examining the potential cumulative effects of VE, appropriate weight has been given to each scenario (Tier) in the decision-making process.
- 3.3.11 In accordance with Advice Note 17 (PINS, 2019), the proposed tiering structure is described in Table 3.4. 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 Advice Note 17 (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 have been 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).
- 3.3.12 It is important to note that this tiering methodology is generally applied across the ES. Certain topics may employ their own bespoke tiering methodology where greater precision on certainty is required, or where specific best practice guidance dictates. Where this is the case, it is clearly described within the topic specific ES chapter.



# Table 3.4: Description of Tiers of other developments considered for CEA<sup>2</sup>.

Tiers	Development Stage
	Projects 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 under the Planning Act 2008 where a PEIR has been submitted for consultation.
	Projects on the Planning Inspectorate's Programme of Projects where a Scoping Report has not been submitted.
Tier 3	Identified in the relevant Development Plan (and emerging Development Plans with appropriate weight 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.

<sup>2</sup> Tier descriptions adapted from Advice Note 17 (PINS, 2019).



### 3.4 **STAGE 2**

#### **SCREENING OF LONGLIST – DEFINITIONS OF CRITERIA**

- 3.4.1 Once the VE CEA longlist had been finalised, all projects, plans and activities were screened in or out based on whether a conceptual impact-receptor pathway for effect existed or not. The Stage 2 exercise also screened the longlist in terms of whether the project, plan or activity is considered to be part of the existing baseline environment or not. Existing projects that have ongoing effects have also been screened in. This Stage 2 screening produced EIA topic-specific shortlists of projects to be considered and refined further within the CEA as part of each of the ES chapters. Therefore, the plan, project or activity may be screened out for one receptor/ topic of the ES but screened in for another. Those plans, projects and activities that are screened in are then carried forward into the CEA.
- 3.4.2 The steps for screening included consideration of the following:
  - > Potential for an impact-receptor-pathway;
  - > Potential for a temporal overlap (i.e. activities occurring concurrently);
  - > Potential for a spatial overlap (i.e. activities occurring within a certain distance from one another); and
  - > The level of confidence in the data and detail that was publicly available.
- 3.4.3 During the screening process, the steps detailed in Table 3.5 were followed in the defined order to allow a clear justification for screening projects in or out. This allowed for the screening out of projects with limited data availability and, as a result, effects that could not be included due to a lack of data, while screening in those that could be considered with the available data.
- 3.4.4 Only where there is the potential for both spatial and temporal interaction between effects at VE and one or more other plans/ projects, has a cumulative impact been taken forward for consideration in the CEA.



#### Table 3.5: Definitions of screening criteria.

Term	Criteria
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 would not have an effect on aviation and radar receptors.
Temporal overlap	The impacts from VE and one or more other plans/projects have the potential to occur at the same time. If there is no temporal interaction of the impacts, there is no potential for a cumulative effect.
Spatial overlap	The impacts on a receptor from VE and one or more other plans/projects may have a geographical overlap. For example, underwater noise contours from piling at VE could overlap with those of another offshore wind farm project, if it is sufficiently close to VE. If there is no spatial interaction of the impacts, there is no potential for a cumulative effect.
Level of confidence	The publicly available information on each project or proposed activity (location, development type and timing, etc.). This information is critically assessed to ascertain the level of confidence it will take place in the current form and when it will take place in relation to the project (i.e. the level of confidence in the published information).

3.4.5 The shortlist identifies all the projects, plans, and activities that have the potential to give rise to cumulative effects when considered alongside the worst-case potential impacts arising from VE but does not identify the differences in impact ranges for different environmental receptors. For example, this exercise treats fish and shellfish as a single receptor group but does not distinguish between different species; this is left for the CEA section of the fish and shellfish ES chapter. Table 3.6 below details these topic-specific screening ranges that have been applied to the longlist.

#### Table 3.6: Topic-specific screening ranges applied to the longlist.

EIA receptor group	Maximum extent of effect and justification
Physical processes	Based on the distance of one spring tidal excursion ellipse.
Marine water and sediment quality	Based on the distance of one spring tidal excursion ellipse.
Benthic subtidal and intertidal ecology	Based on the distance of one spring tidal excursion ellipse.



EIA receptor group	Maximum extent of effect and justification
Fish and shellfish ecology	50 km from the array area, based on a precautionary impact range from underwater noise.
	Based on the distance of one spring tidal excursion ellipse.
Marine mammals	Dependent on the reference population extent, i.e. the relevant management units.
Offshore ornithology	Dependent on the maximum foraging range of the bird species in question.
Commercial fisheries	Extent of the relevant fishing grounds.
Shipping and navigation	Based on shipping lanes and available sea room around the relevant components of VE.
Military and civil aviation	Distance at which disturbance from the VE array area would interact with that of another development, based on the Line of Sight assessment.
Seascape, landscape and visual Based on the maximum extent of the Zone of Theoretical Visibility (ZTV).	
Marine archaeology Dependent on the archaeological receptor question but as a worst-case the distance of spring tidal excursion ellipse.	
Other marine users and activities	Dependent on the receptor in question, in line with the maximum extents for physical processes, fish and shellfish ecology, aviation and tourism and recreation.
Terrestrial ecology and nature conservation	Distances will vary depending on type of species depending on the type of development/the potential impacts anticipated and the ecological receptor that may be affected.
Archaeology and cultural heritage	For setting of assets, buffers of 500 m from the onshore ECC and 5 km from the onshore substation area have been identified. For offshore projects, this will be based maximum extent of the Zone of Theoretical Visibility (ZTV). These represent the maximum distance over which visual cumulative effects could occur.
	For direct impacts, precautionary distances determined by the ZoI of anticipated potential impacts.



EIA receptor group	Maximum extent of effect and justification
Airborne noise and vibration	Precautionary distance of a maximum of 1km for construction noise at Landfall and cable corridor. Substation has both construction and operational – maximum of 1km.
Traffic and transport	Schemes of local and regional significance within Essex County Council (incorporating Colchester) and partly Suffolk County Council as agreed with the relevant local authorities. Any proposals outside these areas would not be considered unless the proposal was a significant scheme expected to generate a large number of vehicle movements.
	Construction Dust Assessment (qualitative assessment of potential dust generated by construction activities):
	<ul> <li>Construction of any committed development within 700 m from the proposed Order Limits/ Location of works.</li> </ul>
Air quality	Construction Traffic Emissions Assessment (assessment of additional vehicle trips associated with the construction of the development)
	Where there is a spatial and temporal overlap in terms vehicle movements generated from both the proposed development, and other committed developments (no set distance as this is determined at a transport level).
Hydrology, hydrogeology and flood risk	Based on any surface water catchments and flood risk areas that overlap with the onshore project activities.
Geology and ground conditions	Preliminary 500 m buffer from the onshore ECC and 1 km from the onshore substation area. The assessment would also consider a 'sliding scale' in addition to account for potentially significant schemes that are >1 km from the site, whilst also discounting small, less obtrusive activities that are <500 m.
Onshore landscape and visual impacts	500 m from the onshore ECC and 5 km from the onshore substation area, considered to be the maximum distance over which the onshore substation would be visible and the distance over which cumulative effects could occur.



EIA receptor group	Maximum extent of effect and justification	
Socioeconomics / Tourism	Projects of local and wider regional significance will be taken into account in the local labour market areas. Tourism is dependent upon the receptor.	
Human boolth Major Disastors and	Distances will vary depending upon the receptor for human health which are covered in other relevant onshore topic sections.	
Human health, Major Disasters and Climate Change	Projects of local, regional and national significance will be taken into account for the purposes of assessing major disasters (both onshore and offshore).	

- 3.4.6 These topic-specific ranges have been applied to the longlist, to identify relevant shortlist plan, projects and/ or activities to be taken forward to the topic-specific CEA presented in each ES chapter. These are described within Appendix A, and a summary of the shortlist tables are presented in each of the ES chapters.
- 3.4.7 The process for screening the longlist into a series of topic-specific shortlists is summarised in Table 3.7.

Table 3.7: CEA	longlist screening	criteria.
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Screening criteria	Screening assessment	Conclusion
Step 1 – Conceptual impact-receptor pathway		
Does a conceptual cumulative impact- receptor pathway exist from the project, plan or activity?	No conceptual cumulative impact- receptor pathway for effect.	Screened out.
	Yes, impact(s) from the project, plan or activity could theoretically interact to produce a cumulative effect.	Proceed to step 2.
Step 2 – Baseline environ	ment	
Is the project, plan or activity part of the existing baseline environment?	Yes.	Screened out.
	Yes, but has an ongoing effect that is not considered part of the baseline environment.	
	No – project, plan or activity is currently in planning and therefore cannot be considered as part of the existing environment.	Proceed to step 3.
Step 3 – Data confidence		
	Low – a meaningful assessment cannot be undertaken.	Screened out.



Screening criteria	Screening assessment	Conclusion
What is the level of confidence in the data available?	Medium or high – enough data is available for the project, plan or activity to enable a meaningful assessment to be undertaken, either quantitatively or qualitatively.	Proceed to step 4.
Step 4 – Spatial effect inte	eraction	
Is there physical effect- receptor overlap? (see screening ranges applied in Table 3.6).	No, the project, plan or activity is sufficiently distant from VE such that there is no geographical overlap of their maximum impact extents.	Screened out.
	Yes, impacts on a receptor from VE together with other plans, projects and activities overlap geographically.	Proceed to step 5.
Step 5 – Temporal effect i	nteraction	
Is there a temporal overlap of potential effects?	No, the project, plan or activities will not occur at the same time as the relevant phase of VE (i.e. construction or operation and maintenance) and therefore there is no potential for a cumulative effect.	Screened out.
	Yes, the project, plan or activity is anticipated to occur concurrently with the relevant phase of VE.	Screened in – potential for cumulative effect exists.

#### 3.5 STAGE 3 – INFORMATION COLLATION

- 3.5.1 The next stage (Stage 3) of the CEA included gathering information on the projects, plans and activities screened in so that a meaningful assessment can be undertaken. Such information included public sources such as ESs and associated planning application documents, project websites and, where such information was not readily accessible, industry consultation with the developers and operators of the schemes, as well as regulators and local authorities in order to gather the most accurate and up to date project information.
- 3.5.2 Information gathered on the projects, plans and activities screened in has been collated and input into Stage 4 of the CEA.

#### **3.6 STAGE 4 – ASSESSMENT OF CUMULATIVE EFFECTS**

3.6.1 Stage 4 is undertaking the cumulative effects assessment for each screened in project, plan or activity. These assessments have been carried out on a topic-by-topic basis within the CEA section of the relevant ES chapter.



- 3.6.2 In terms of the scope of impacts that have been assessed within the CEA, these were the same impacts assessed for the project alone in the main EIA assessments. Any effect that has been concluded to be of negligible or neutral significance (in EIA terms) for the project alone, would make no material contribution to any potential cumulative effect, and was therefore scoped out of the CEA. Effects of greater than negligible significance for the project alone have been considered cumulatively.
- 3.6.3 As part of the Evidence Plan Process, a cut-off point for the CEA longlist of October 2023 has been decided upon prior to submission.



#### 4 **REFERENCES**

- Department of Energy Security and Net Zero (DESNZ) (2023a). 'Overarching National Policy Statement for Energy (EN-1)'. <u>Overarching National Policy Statement for</u> <u>Energy - EN-1 (publishing.service.gov.uk)</u> [Accessed: January 2024]
- Department of Energy Security and Net Zero (DESNZ) (2023b). 'National Policy Statement for Renewable Energy Infrastructure (EN-3)'. <u>National Policy Statement for</u> <u>renewable energy infrastructure (EN-3) (publishing.service.gov.uk)</u>[Accessed: January 2024]
- Department of Energy Security and Net Zero (DESNZ) (2023c). 'National Policy Statement for electricity networks infrastructure (EN-5)'. <u>Electricity Networks National Policy</u> <u>Statement - EN-5 (publishing.service.gov.uk)</u> [Accessed: January 2024]
- Furness, R.W. (2015) Non-breeding season populations of seabirds in UK waters: Population sizes for Biologically Defined Minimum Population Scales (BDMPS). Natural England Commissioned Reports, Number 164.
- Her Majesty's Government (2011). UK Marine Policy Statement. <u>https://www.gov.uk/government/publications/uk-marine-policy-statement</u> [Accessed: July 2022]
- Planning Inspectorate (PINS) (2018). 'Advice Note 9: Using the Rochdale Envelope'. <u>https://infrastructure.planninginspectorate.gov.uk/legislation-and-advice/advice-note-nine-rochdale-envelope/</u> [Accessed: July 2022]
- Planning Inspectorate (PINS) (2019). 'Advice Note 17: Cumulative effects assessment relevant to nationally significant infrastructure projects'. <u>https://infrastructure.planninginspectorate.gov.uk/legislation-and-advice/advicenotes/advice-note-17/</u> [Accessed July 2022]
- RenewableUK (2013). 'Cumulative Impact Assessment Guidelines Guiding Principles for Cumulative Impact Assessment in Offshore Wind Farms'.

# **APPENDIX A**

CUMULATIVE EFFECTS ASSESSMENT LONGLIST



No longer operational
Concept/In Planning/Consenting/Pre-Construction
Construction
Operation and Maintenance
Decommissioning
Information unknown

а	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: <b>Screened in to</b> assessment.
с	Potential cumulative impact exists: <b>Screened in to assessment</b> .
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.
g	No temporal overlap: Screened out of assessment.

- TDC
- Tendering District Council Colchester Borough Council Essex County Council CBC
- ECC
- ESC East Suffolk Council

Key



Screening Ranges

Project type	Screening Range (km)	
Aggregates and Disposal		50
Offshore Energy	North Sea Harbor Porpoise Management Unit	
Commercial Fisheries	2	200
Cables and Pipelines		50
Oil and Gas	2	200
Shipping	2	200
Military, Aviation and Radar	2	200
Coastal	2	200
Onshore	N/A (LPA boundaries)	



#### Data Sources

Data	Data Source	Date
Aggregate Production Area	The Crown Estate	02/08/2023
Disposal Sites	CEFAS	03/08/2023
Carbon Capture and Storage	TCE	27/09/2023
Outfall	Marine Themes Data Product (OceanWise)	28/09/2023
O&G Surface Features	O&G Authority	29/09/2023
O&G Subsurface Features	O&G Authority	30/09/2023
O&G Pipelines	O&G Authority	01/10/2023
Ports	World Ports Index (WPI)	15/08/2023
Subsea Cables	KISORCA (gobe edit)	25/07/2023
OWF Export Cables	The Crown Estate	25/07/2023
Offshore Wave Site Agreements	The Crown Estate	28/07/2023
Offshore Tidal Site Agreements	The Crown Estate	29/07/2023
Offshore Wind Farms		
(England/Wales)	The Crown Estate	10/10/2023
Offshore Wind Farms (Scotland)	Crown Estate Scotland	11/10/2023
Offshore Wind Farms (Europe)	EMODnet	12/10/2023
Offshore Wave Site Agreements		
(Scotland)	Crown Estate Scotland	10/10/2023
Offshore Tidal Site Agreements		
(Scotland)	Crown Estate Scotland	10/10/2023
PEXA	NATS	10/10/2023
Global Offshore Wind Farms	4C Offshore	10/10/2023
Explore Marine Plans	The Marine Management Organisation (MM	03/08/2023

Table 3: Aggregate	es and Dispos	sal			Const	truction	Period (	red out!	line den	otes Five	Estua	ies offel	hore cor	nstructio	on perio	od)												
Project	Data Source(s)	Data Confidence Assessment	Notes	Status of Development	2021	202	2023	2024			2027			5030	2031	2032	2033	2034	2035 - 2045	2046 - 2056 2057 - 2057	2057 - 2067	Distance from the VE array area (km)	Distance from the VE Offshore Expor Cable Corridor (km)	Marine Geology, Cceanography and Physical Processes	Marine Water and Sediment Quality	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammal Ecology
Galloper OWF (TH057)	Explore marine plans (marineservices.org.uk)	Medium - Third party project details published in the public domain and confirmed as being 'accurate'	Sea Disposal Site	Closed																		0.0	0.0	d		D	d	
NeuConnect Disposal South	Explore marine plans (marineservices.org.uk)	Medium - Third party project details published in the public domain and confirmed as being 'accurate'	Sea Disposal Site	Open																		0.37	6.33	d	d	d	d	d
WARREN SPRING EXPTL AREA 2/1 (TH024)	Explore marine plans (marineservices.org.uk)	Medium - Third party project details published in the public domain and confirmed as being 'accurate'	Sea Disposal Site	Closed																		0.4	0.0	d		D	d	
BRITNED (NS100)		Medium - Third party project details published in the public domain and confirmed as being 'accurate'	Sea Disposal Site	Closed																		0.5	6.3	d		d	d	
DEME Building Materials Ltd (524)	https://opendata- thecrownestate.opendata. arcgis.com/datasets/685a 9d9c2ae84870b0704731 1b7dec56	domain and confirmed as	Aggregate Production Area	Operation																		1.7	8.5	с	с	с	c	a
WARREN SPRING EXPTL AREA 1 (TH075)		Medium - Third party project details published in the public domain and confirmed as being 'accurate'	Sea Disposal Site	Closed																		2.3	9.5	d		d	d	
NeuConnect Disposal 2	Explore marine plans (marineservices.org.uk)	Medium - Third party project details published in the public domain and confirmed as being 'accurate'	Sea Disposal Site	Open																		2.83	4.4	d	d	d	d	d
Volker Dredging Ltd (1809)	https://opendata- thecrownestate.opendata. arcgis.com/datasets/685a 9d9c2ae84870b0704731 1b7dec56	Medium - Third party project details published in the public	Aggregate Production Area	Decomissioning																		7.4	12.1	d		d	d	
NeuConnect Disposal 1	Explore marine plans_ (marineservices.org.uk)	Medium - Third party project details published in the public domain and confirmed as being 'accurate'	Sea Disposal Site	Open																		8.49	4.93	d	d	d	d	d
Westminster Gravels Ltd (501)	https://opendata- thecrownestate.opendata. arcgis.com/datasets/685a 9d9c2ae84870b0704731 1b7dec56	Medium - Third party project details published in the public	Aggregate Production Area	Operation																		10.6	16.9	f	d	f	f	d
Britannia Aggregates Ltd (498)	https://opendata-	Medium - Third party project details published in the public domain and confirmed as being 'accurate'	Aggregate Production Area	Operation																		11.1	15.6	f	d	f	f	d
Volker Dredging Ltd (498)	https://opendata- thecrownestate.opendata.	Medium - Third party project details published in the public		Operation																		11.1	15.6	f	d	f	f	d
WARREN SPRING EXPTL AREA 2 (TH025)	Explore marine plans_ (marineservices.org.uk)	Medium - Third party project details published in the public domain and confirmed as being 'accurate'	Sea Disposal Site	Closed																		13.2	0.0	d		D	d	
CEMEX UK Marine Ltd (507/6)	https://opendata- thecrownestate.opendata. arcgis.com/datasets/685a 9d9c2ae84870b0704731 1b7dec56	Medium - Third party project details published in the public domain and confirmed as being 'accurate'	Aggregate Production Area	Operation																		15.1	17.2	f	d	f	f	d
NORTH SEA DREDGE TEST (NS111)		Medium - Third party project details published in the public domain and confirmed as being 'accurate'	Sea Disposal Site	Closed																		16.2	21.6	d		d	d	
INNER GABBARD EAST (TH056)	Explore marine plans (marineservices.org.uk)	Medium - Third party project details published in the public domain and confirmed as being 'accurate'		Open																		16.4	7.2	с	c	c	c	d
East Anglia One (TH023)	(manneser neessorg.ak)	Medium - Third party project details published in the public domain and confirmed as being 'accurate'	Sea Disposal Site	Open																		16.4	24.0	f	d	f	f	d
CEMEX UK Marine Ltd (507/5)	https://opendata- thecrownestate.opendata. arcgis.com/datasets/685a 9d9c2ae84870b0704731 1b7dec56	Medium - Third party project details published in the public domain and confirmed as being 'accurate'	Aggregate Production Area	Operation																		17.9	21.5	f	d	f	f	d
SOUTH FALLS (TH070)		Medium - Third party project details published in the public domain and confirmed as being 'accurate'	Sea Disposal Site	Open																		18.7	22.5	f	d	f	f	d
EA One Route EC-5 (TH224)	Explore marine plans. (marineservices.org.uk)	Medium - Third party project details published in the public domain and confirmed as being 'accurate'		Open																		19.04	26.13	f	d	f	f	d
EAOW3 (HU212)	Explore marine plans (marineservices.org.uk)	Medium - Third party project details published in the public domain and confirmed as being 'accurate'	Sea Disposal Site	Open																		20.0	26.6	f	d	f	f	d
CEMEX UK Marine Ltd (507/4)	https://opendata- thecrownestate.opendata. arcgis.com/datasets/685a 9d9c2ae84870b0704731 1b7dec56	Medium - Third party project details published in the public domain and confirmed as being 'accurate'	Aggregate Production Area	Operation																		20.5	12.9	c	d	f	c	a
INNER GABBARD (TH052)	Explore marine plans (marineservices.org.uk)	Medium - Third party project details published in the public domain and confirmed as being 'accurate'	Sea Disposal Site	Open																		20.6	3.9	c	c	c	c	a
EA One Route EC-4 (TH223)	Explore marine plans (marineservices.org.uk)	Medium - Third party project details published in the public domain and confirmed as being 'accurate'	Sea Disposal Site	Open																		22.3	28.57	f	d	f	f	d

Offshore Ornithology	Commercial Fisheries	Shipping and Navigation	Military and Civil Aviation	Seascape, Landscape and Visual	eeescope, cance ope and visual Marine Archaeology and Cultural Heritage					
	a				g	g				
	d	d			d	d				
	a				g	g				
	a				g	g				
	a	a			c	b				
	a				g	g				
	d	d			d	d				
	a	c			g	g				
	d	d			d	d				
	a	d			c	a				
	a	d			c	a				
	a	d			c	a				
	8				g	g				
	a	d			с	a				
	a				g	g				
	a	d			c	c				
	a	d			c	c				
	a	d			c	a				
	a	d			c	f				
	a	d			c	f				
	a	d			c	f				
	a	a			c	b				
	a	a			c	c				
	a	d			c	f				



Table 3: Aggregat	tes and Dispos	al			Constr	uction Pe	riod (red	outline o	denotes F	ive Estua	aries offs	shore co	onstructio	on perio	od)											
Project	Data Source(s)	Data Confidence Assessment	Notes	Status of Development	2021		2023			2027	2028	2029		2031		2033 2034	2035 - 2045	2046 - 2056	2057 - 2067	Distance from the VE array area (km)	Distance from the VE Offshore Expor Cable Corridor (km)	ب Marine Geology, Oceanography and Physical Processes	Marine Water and Sediment Quality	Benthic and Intertidal Ecology	Fish and Shelifish Ecology	Marine Mammal Ecology
CEMEX UK Marine Ltd (510/2)	https://opendata- thecrownestate.opendata. arcgis.com/datasets/685a 9d9c2ae84870b0704731 1b7dec56	Medium - Third party project details published in the public domain and confirmed as being 'accurate'	Aggregate Production Area	Operation																22.3	3.5	c	c	c	c	
CEMEX UK Marine Ltd (507/2)	thecrownestate.opendata arcgis.com/datasets/685a 9d9c2ae84870b0704731 1b7dec56	Medium - Third party project details published in the public domain and confirmed as being 'accurate'		Operation																24.8	17.0	f	d	f	f	d
CEMEX UK Marine Ltd (507/1)	https://opendata- thecrownestate.opendata. arcgis.com/datasets/685a 9d9c2ae84870b0704731 1b7dec56	Medium - Third party project details published in the public domain and confirmed as being 'accurate'	Aggregate Production Area	Operation																25.0	9.6	с	c	с	с	
CEMEX UK Marine Ltd (507/3)		Medium - Third party project details published in the public domain and confirmed as being 'accurate'		Operation																25.1	12.8	d	d	đ	с	
Hanson Aggregates Marine Ltd (528/2)	https://opendata- thecrownestate.opendata. arcgis.com/datasets/685a 9d9c2ae84870b0704731 1b7dec56	Medium - Third party project details published in the public domain and confirmed as being 'accurate'	Aggregate Production Area	Open																25.1	14.0	c	d	d	d	d
AREA 108/3 (TH054)	Explore marine plans (marineservices.org.uk)	Medium - Third party project details published in the public domain and confirmed as being 'accurate'	Sea Disposal Site	Disused																26.4	3.4	d		d	d	
Britannia Aggregates Ltd (508)	https://opendata- thecrownestate.opendata. arcgis.com/datasets/685a 9d9c2ae84870b0704731 1b7dec56	Medium - Third party project details published in the public domain and confirmed as being 'accurate'	Aggregate Production Area	Operation																26.8	5.8	с	c	с	с	•
CEMEX UK Marine Ltd (510/1)	https://opendata- thecrownestate.opendata. arcgis.com/datasets/685a 9d9c2ae84870b0704731 1b7dec56	Medium - Third party project details published in the public domain and confirmed as being 'accurate'	Aggregate Production Area	Operation																26.8	5.8	c	c	c	c	
Tarmac Marine Ltd (509/3)	10708036	Medium - Third party project details published in the public domain and confirmed as being 'accurate'	Aggregate Production Area	Operation																26.8	5.8	c	c	c	c	2
CEMEX UK Marine Ltd (430)	arcgis.com/datasets/685a 9d9c2ae84870b0704731 1b7dec56	Medium - Third party project details published in the public domain and confirmed as being 'accurate'	Aggregate Production Area	Operation																27.8	34.4	f	f	f	f	d
Tarmac Marine Ltd (430)	thecrownestate.opendata.	Medium - Third party project details published in the public domain and confirmed as being 'accurate'		Operation																27.8	34.4	f	f	f	f	d
Harwich Haven (TH027)		Medium - Third party project details published in the public domain and confirmed as being 'accurate'		Open																30.0	4.2	c	с	c	c	•
EA One Route EC-3 (TH222)	Explore marine plans_ (marineservices.org.uk)	Medium - Third party project details published in the public domain and confirmed as being 'accurate'	Sea Disposal Site	Open																31.86	18.8	f	f	f	f	d
Tarmac Marine Ltd (509/1)		Medium - Third party project details published in the public domain and confirmed as being 'accurate'	Aggregate Production Area	Operation																33.7	0.1	c	c	c	с	a
NORTH WEST SHIPWASH (HU199)	Explore marine plans_ (marineservices.org.uk)	Medium - Third party project details published in the public domain and confirmed as being 'accurate'	Sea Disposal Site	Closed																34.3	0.2	d		d	d	
NORTH WEST SHIPWASH (TH055)	Interincectorgrang	Medium - Third party project details published in the public domain and confirmed as being 'accurate'	Sea Disposal Site	Closed																34.3	0.1	d		d	d	
Tarmac Marine Ltd (509/2)	https://opendata- thecrownestate.opendata. arcgis.com/datasets/685a 9d9c2ae84870b0704731 1b7dec56	Medium - Third party project details published in the public domain and confirmed as being 'accurate'		Operation																34.5	1.6	c	c	с	с	a
ROUGHS TOWER (TH042)		Medium - Third party project details published in the public domain and confirmed as being 'accurate'	Sea Disposal Site	Closed																36.8	0.0	d		d	d	
AEA EXPERIMENTAL SITE (TH026)	Explore marine plans (marineservices.org.uk)	Medium - Third party project details published in the public domain and confirmed as	Sea Disposal Site	Closed																37.0	43.3	f		f	f	
ROUGHS TOWER L (TH040)	Explore marine plans (marineservices.org.uk)	being 'accurate' Medium - Third party project details published in the public domain and confirmed as being 'accurate'		Closed																37.1	0.0	d		d	d	
ROUGHS TOWER EXTENSION (TH045)	Explore marine plans (marineservices.org.uk)	Medium - Third party project details published in the public domain and confirmed as being 'accurate'		Closed																37.1	0.0	d		d	d	
ROUGHS TOWER M (TH038)		Medium - Third party project details published in the public domain and confirmed as being 'accurate'	Sea Disposal Site	Closed																37.5	0.3	d		d	d	
ROUGHS TOWER C (TH041)	Explore marine plans (marineservices.org.uk)	Medium - Third party project details published in the public domain and confirmed as being 'accurate'	Sea Disposal Site	Closed																37.5	0.3	d		d	d	
ROUGHS TOWER 'E' (TH049)	Explore marine plans (marineservices.org.uk)	Medium - Third party project details published in the public domain and confirmed as being 'accurate'	Sea Disposal Site	Closed																37.5	0.1	d		d	d	

Offshore Ornithology	Commercial Fisheries	Shipping and Navigation	Military and Civil Aviation	Seascape, Landscape and Visual	Marine Archaeology and Cultural Heritage	Other Marine Users and Activities
	a	a			c	b
	a	d			c	a
	a	a			c	b
	a	a			c	f
	a	c			g	g
	a				g	g
	a	a			c	b
	a	a			c	b
	a	a			c	b
	a	d			с	f
	a	d			c	f
	a	a			c	b
	a	d			c	f
	a	a			c	b
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Table 3: Aggregate	es and Dispo	sal			Cons	struction	Period	(red ou	utline de	enotes Fiv	ve Estu	aries off	fshore o	onstruct	ion peri	od)						1						
Project	Data Source(s)	Data Confidence Assessment	Notes	Status of Development	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035 - 2045	2046 - 2056	2057 - 2067	Distance from the VE array area (km)			arine Water and Sediment Quality	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammal Ecology
ROUGHS TOWER A	Explore marine plans	Medium - Third party project details published in the publi domain and confirmed as		Olaard																		07.0	0.5	ÿ	ž			-
(TH044) ROUGHS TOWER D	(marineservices.org.uk)	domain and confirmed as being 'accurate' Medium - Third party project details published in the publi	t	Closed							+											37.8	0.5	a		α	a	-
(TH039)	(marineservices.org.uk)	domain and confirmed as being 'accurate' Medium - Third party project		Closed							-											38.2	1.0	d		d	d	
ROUGHS TOWER B (TH043)	Explore marine plans (marineservices.org.uk)	details published in the publi domain and confirmed as being 'accurate' Medium - Third party project	Sea Disposal Site	Closed																		38.8	1.5	d		d	d	
TEOW Disposal site 1 (TH153)	Explore marine plans (marineservices.org.uk)	details published in the publi domain and confirmed as being 'accurate'	ic Sea Disposal Site	Open																		39.16	33.86	f	f	f	f	d
EA One Route EC-2 (TH221)	Explore marine plans (marineservices.org.uk)	details published in the publi domain and confirmed as being 'accurate'	<sup>ic</sup> Sea Disposal Site	Open																		39.9	9.3	f	f	f	f	d
THANET (TH110)	Explore marine plans (marineservices.org.uk)	Medium - Third party project details published in the publi domain and confirmed as being 'accurate'	<sup>iC</sup> Sea Disposal Site	Closed																		42.0	39.9	f		f	f	
EA One Route EC-1 (TH220)	Explore marine plans (marineservices.org.uk)	Medium - Third party project details published in the publi domain and confirmed as being 'accurate'		Open																		45.8	10.3	f	f	f	f	d
TEOW Disposal site 2 (TH154)	Explore marine plans (marineservices.org.uk)	Medium - Third party project details published in the publi domain and confirmed as	ic Sea Disposal Site	Open																		45.83	36.99	f	f	f	f	d
HARWICH ROCK DUMP (TH030)	Explore marine plans (marineservices.org.uk)	being 'accurate' Medium - Third party project details published in the publi domain and confirmed as	t ic Sea Disposal Site	Closed																		46.3	4.1	d		d	d	
Nemo Disposal Site A (TH150)	Explore marine plans. (marineservices.org.uk)	being 'accurate' Medium - Third party project details published in the publi domain and confirmed as		Open																	_	46.8	49.4	f	f	f	f	d
SOUTHWOLD HARBOUR (TH020)	Explore marine plans (marineservices.org.uk)	being 'accurate' Medium - Third party project details published in the publi domain and confirmed as being 'accurate'	t <sup>ic</sup> Sea Disposal Site	Closed																		47.2	49.1	f		f	f	
THE WELL (TH046)	Explore marine plans (marineservices.org.uk)	Medium - Third party project details published in the publi domain and confirmed as being 'accurate'		Disused																		48.3	4.1	d		d	d	
BARROW DEEP B (TH051)	Explore marine plans (marineservices.org.uk)	Medium - Third party project details published in the publi domain and confirmed as		Closed																		49.0	13.1	d		d	d	
BARROW DEEP (TH050)	Explore marine plans (marineservices.org.uk)	being 'accurate' Medium - Third party project details published in the publi domain and confirmed as being 'accurate'		Closed							1											49.0	13.1	d		d	d	
NORTH GOODWIN (TH130)	Explore marine plans (marineservices.org.uk)	Medium - Third party project details published in the publi domain and confirmed as being 'accurate'	t ic Sea Disposal Site	Closed							T											49.4	44.5	f		f	f	
Nemo Disposal Site B (TH151)	Explore marine plans (marineservices.org.uk)	Medium - Third party project details published in the publi domain and confirmed as being 'accurate'	t <sup>ic</sup> Sea Disposal Site	Open																		49.4	48.6	f	f	f	f	d
TEOW Disposal site 3 (TH155)	Explore marine plans (marineservices.org.uk)	Medium - Third party project details published in the publi domain and confirmed as	t <sup>ic</sup> Sea Disposal Site	Open																		50.57	43.76	f	f	f	f	d
RIVER STOUR (AREA 1 SUBTIDAL S) (TH211)	Explore marine plans (marineservices.org.uk)	being 'accurate' Medium - Third party project details published in the publi domain and confirmed as being 'accurate'	<sup>ic</sup> Sea Disposal Site	Closed																		52.7	10.6	d		d	d	
Stonner Point (TH022)	Explore marine plans (marineservices.org.uk)	being 'accurate' Medium - Third party project details published in the publi domain and confirmed as	t <sup>ic</sup> Sea Disposal Site	Closed							T											52.9	19.1	d		d	d	
NORTH EDINBURGH CHANNEL (TH080)	Explore marine plans (marineservices.org.uk)	being 'accurate' Medium - Third party project details published in the publi domain and confirmed as being 'accurate'	t <sup>ic</sup> Sea Disposal Site	Closed																		53.4	27.2	d		d	d	
Loders Cut Island (TH021)	Explore marine plans (marineservices.org.uk)	being 'accurate' Medium - Third party project details published in the publi domain and confirmed as	t <sup>ic</sup> Sea Disposal Site	Closed																		54.9	22.7	d		d	d	
Horsey (TH230)	Explore marine plans (marineservices.org.uk)	being 'accurate' Medium - Third party project details published in the publi domain and confirmed as	t <sup>ic</sup> Sea Disposal Site	Open																		55.48	6.68	f	f	f	f	d
TITCHMARSH SALTINGS (TH214)	Explore marine plans (marineservices.org.uk)	being 'accurate' Medium - Third party project details published in the publi domain and confirmed as	t <sup>ic</sup> Sea Disposal Site	Disused																		55.5	4.3	d		d	d	
ORWELL EAST (TH053)	Explore marine plans_ (marineservices.org.uk)	being 'accurate' Medium - Third party project details published in the publi domain and confirmed as	t ic Sea Disposal Site	Closed																		55.9	14.6	d		d	d	
ORWELL EAST TRACK	Explore marine plans	being 'accurate' Medium - Third party project details published in the publi	1	Open																		56.0	14.7	f	f	f	f	d
(TH219) RIVER ORWELL	(marineservices.org.uk) Explore marine plans	domain and confirmed as being 'accurate' Medium - Third party project details published in the publi	1	Closed																	_	56.1	15.4	d		4	d	
(TH036)	(marineservices.org.uk)	domain and confirmed as being 'accurate'	Jou Dispusal Site	Ciosca																				<u>.</u>		a		

Offshore Ornithology	Commercial Fisheries	Shipping and Navigation	Military and Civil Aviation	Seascape, Landscape and Visual	Marine Archaeology and Cultural Heritage	Other Marine Users and Activities
	a				g	g
	a				g	g
	a				g	g
	a	d			c	f
	a	d			c	f
	a				g	g
	a	d			c	f
	a	d			c	f
	a				g	g
	a	d			c	f
	a				9	9
	a				g	g
	a				g	g
	a				g	g
	a				g	g
	a	d			c	f
	a	d			c	f
	a				g	g
	a				g	g
	a				g	g
	a				g	g
	a	d			c	f
	a				g	g
	a				g	g
	a	d			c	f
	a				g	g
 -						



Table 3: Aggrega	tes and Dispo	sal			Const	ruction Peri	od (red o	utline de	notes F	ive Estu	aries off	fshore co	nstructi	on perio	od)						1						
Project	Data Source(s)	Data Confidence Assessment	Notes	Status of Development	2021	2022 2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034 2035 - 2045	2035 - 2045 2016 2016	2046 - 2036	2057 - 2067	Distance from the VE array area (km)	Distance from the VE Offshore Expor Cable Corridor (km)	ர் rine Geology, Oceanography and Physical Processes	rine Water and Sediment Quality	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammal Ecology
		Medium - Third party project																					Ма	Ma			
ORWELL WEST (TH037)	Explore marine plans (marineservices.org.uk)	details published in the public domain and confirmed as being 'accurate'	Sea Disposal Site	Closed																	56.2	14.9	d		d	d	
ORWELL WEST TRACK (TH218)	Explore marine plans (marineservices.org.uk)	Medium - Third party project details published in the public domain and confirmed as being 'accurate'	Sea Disposal Site	Open																	56.3	15.0	f	f	f	f	d
Levington Site 3 (TH227)	Explore marine plans_ (marineservices.org.uk)	Medium - Third party project details published in the public domain and confirmed as	Sea Disposal Site	Open																	56.31	16.15	f	f	f	f	d
ERWARTON EAST (TH207)	Explore marine plans (marineservices.org.uk)	being 'accurate' Medium - Third party project details published in the public domain and confirmed as	Sea Disposal Site	Closed																	56.4	14.4	d		d	d	
Levington Site 4 (TH228)	Explore marine plans (marineservices.org.uk)	being 'accurate' Medium - Third party project details published in the public domain and confirmed as	Sea Disposal Site	Open																	56.49	16.29	f	f	f	f	d
RIVER ORWELL (ABP)	Explore marine plans	being 'accurate' Medium - Third party project details published in the public		Open																	56.6	16.3	f	f	f		
(TH034) COPPERAS BAY	(marineservices.org.uk) Explore marine plans	domain and confirmed as being 'accurate' Medium - Third party project details published in the public domain and confirmed as																									-
(TH203)	(marineservices.org.uk)	being 'accurate'		Closed																	57.1	13.8	d		d	d	
ERWARTON TRACK (TH217)	Explore marine plans_ (marineservices.org.uk)	details published in the public domain and confirmed as being 'accurate' Medium - Third party project		Open																	57.1	14.4	f	f	f	f	4
Levington Site 2 (TH226)	Explore marine plans (marineservices.org.uk)	details published in the public domain and confirmed as being 'accurate'	Sea Disposal Site	Open																	57.31	17.08	f	f	f	f	d
ERWARTON BAY (TH202)	Explore marine plans (marineservices.org.uk)	Medium - Third party project details published in the public domain and confirmed as being 'accurate'	Sea Disposal Site	Closed																	57.4	14.5	d		d	d	
Levington Site 1 (TH225)	Explore marine plans_ (marineservices.org.uk)	Medium - Third party project details published in the public domain and confirmed as	Sea Disposal Site	Open																	57.49	17.27	f	f	f	f	d
RIVER STOUR (TH035)	Explore marine plans (marineservices.org.uk)	being 'accurate' Medium - Third party project details published in the public domain and confirmed as	Sea Disposal Site	Closed																	58.4	14.1	d		d	d	
COPPERAS (TH216)	Explore marine plans (marineservices.org.uk)	being 'accurate' Medium - Third party project details published in the public domain and confirmed as	Sea Disposal Site	Open																	58.4	13.9	f	f	f	f	d
COPPERAS EAST	Explore marine plans	being 'accurate' Medium - Third party project details published in the public	Sea Disposal Site	Closed																	58.6	13.8	d		d	d	-
(TH208) COPPERAS BAY 2	(marineservices.org.uk) Explore marine plans	being 'accurate' Medium - Third party project details published in the public								-												44.0					-
(TH204)	(marineservices.org.uk)	being 'accurate'		Closed						_											60.2	14.0	a		a	a	_
COPPERAS WEST (TH209)	Explore marine plans_ (marineservices.org.uk)	Medium - Third party project details published in the public domain and confirmed as being 'accurate' Medium - Third party project		Closed																	60.2	14.0	d		d	d	
HOLBROOK BAY (TH205)	Explore marine plans (marineservices.org.uk)	details published in the public domain and confirmed as being 'accurate'	Sea Disposal Site	Closed																	61.5	14.8	d		d	d	
HOLBROOK BAY 1 (TH210)	Explore marine plans (marineservices.org.uk)	Medium - Third party project details published in the public domain and confirmed as being 'accurate'	Sea Disposal Site	Disused																	61.8	14.9	d		d	d	
STOUR WATER COLUMN 2 (TH200)	Explore marine plans (marineservices.org.uk)	Medium - Third party project details published in the public domain and confirmed as being 'accurate'	Sea Disposal Site	Closed																	62.1	15.0	d		d	d	
Wrabness Beach East (TH229)	Explore marine plans (marineservices.org.uk)	Medium - Third party project details published in the public domain and confirmed as	Sea Disposal Site	Open																	63.09	14.93	f	f	f	f	d
WRABNESS BEACH TH213	Explore marine plans (marineservices.org.uk)	being 'accurate' Medium - Third party project details published in the public domain and confirmed as	Sea Disposal Site	Open																	63.5	15.0	f	f	f	f	d
JACQUES BAY	Explore marine plans	being 'accurate' Medium - Third party project details published in the public		Closed																	64.2	15.4	d		d	d	
(TH206)	(marineservices.org.uk) Explore marine plans	domain and confirmed as being 'accurate' Medium - Third party project details published in the public domain and confirmed as																									4
(TH031)	(marineservices.org.uk)	being 'accurate'		Closed																	65.2	24.0	a		0		
Orwell Yacht Club (TH032)	Explore marine plans (marineservices.org.uk)	Medium - Third party project details published in the public domain and confirmed as being 'accurate' Medium - Third party project		Open																	65.3	24.39	f	f	f	f	d
STOUR WATER COLUMN 3 (TH201)	Explore marine plans (marineservices.org.uk)	details published in the public domain and confirmed as being 'accurate'	Sea Disposal Site	Closed																	65.4	16.0	d		d	d	
ALRESFORD SALTINGS (TH212)	Explore marine plans (marineservices.org.uk)	Medium - Third party project details published in the public domain and confirmed as being 'accurate'	Sea Disposal Site	Disused																	74.9	17.1	d		d	d	
WIVENHOE OVERFLOW (TH215)	Explore marine plans (marineservices.org.uk)	Medium - Third party project details published in the public domain and confirmed as being 'accurate'	Sea Disposal Site	Closed																	76.0	18.2	d		d	d	

Offshore Ornithology	Commercial Fisheries	Shipping and Navigation	Military and Civil Avlation	Seascape, Landscape and Visual	Marine Archaeology and Cultural Heritage	Other Marine Users and Activities
	a				g	g
	a	d			c	f
	a	d			c	f
	a				g	g
	a	d			c	f
	8	d			c	f
	2				g	g
	a	d			c	f
	a	d			c	f
	a				g	g
	a	d			c	f
	a				g	g
	a	d			c	f
	a				g	g
	8				g	g
	a				g	g
	8				g	g
	a				g	g
	a				g	g
	a	d			c	f
	a	d			c	f
	a				g	g
	8				g	g
	8	d			c	f
	a				g	g
	a				g	g
	a				g	g



Table 3: Aggregate	es and Dispo	sal			Const	truction	n Period	(red o	outline	denotes I	Five Es	stuaries of	fshore o	onstruct	tion per	iod)						1						
Project	Data Source(s)	Data Confidence Assessment	Notes	Status of Development	2021	2022	2023	2024	2025		2027		2029	2030	2031	2032	2033	2034	2035 - 2045	2046 - 2056	2057 - 2067	Distance from the VE array area (km)	Distance from the VE Offshore Expor Cable Corridor (km)	Marine Geology, Oceanography and Physical Processes	Marine Water and Sediment Quality	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammal Ecology
WHITSTABLE (TH120)	Explore marine plans_ (marineservices.org.uk)	Medium - Third party project details published in the public domain and confirmed as being 'accurate'	Sea Disposal Site	Closed																		77.3	46.4	f		f	f	
WHITSTABLE B (TH125)	Explore marine plans (marineservices.org.uk)	Medium - Third party project details published in the public domain and confirmed as being 'accurate'	Sea Disposal Site	Closed							T											78.7	47.4	f		f	f	
WHITSTABLE C (TH073)	Explore marine plans (marineservices.org.uk)	Medium - Third party project details published in the public domain and confirmed as being 'accurate'	Sea Disposal Site	Open																		79.0	48.1	f	f	f	f	d
TOLLESBURY SALTINGS (TH047)	Explore marine plans (marineservices.org.uk)	Medium - Third party project details published in the public domain and confirmed as being 'accurate'	Sea Disposal Site	Closed																		82.0	24.9	d		d	d	
WALLASEA ISLAND (TH061)	Explore marine plans (marineservices.org.uk)	Medium - Third party project details published in the public domain and confirmed as being 'accurate'	Sea Disposal Site	Closed							T											82.9	31.6	d		d	d	
Essex Marina (TH066)	Explore marine plans (marineservices.org.uk)	Medium - Third party project details published in the public domain and confirmed as being 'accurate'	Sea Disposal Site	Closed							T											87.1	34.5	f		f	f	
RIVER CROUCH (TH060)	Explore marine plans. (marineservices.org.uk)	Medium - Third party project details published in the public domain and confirmed as being 'accurate'	Sea Disposal Site	Closed																		87.9	35.2	f		f	f	
MEDWAY APPROACH CHANNEL (TH101)	Explore marine plans (marineservices.org.uk)	Medium - Third party project details published in the public domain and confirmed as being 'accurate'	Sea Disposal Site	Closed																		88.1	44.1	f		f	f	
BRIDGEMARSH ISLAND (TH065)	Explore marine plans. (marineservices.org.uk)	Medium - Third party project details published in the public domain and confirmed as being 'accurate'	Sea Disposal Site	Closed																		90.0	36.4	f		f	f	
MEDWAY APPROACH CHANNEL B (TH102)	Explore marine plans. (marineservices.org.uk)	Medium - Third party project details published in the public domain and confirmed as being 'accurate'	Sea Disposal Site	Closed																		90.3	45.8	f		f	f	
MUCKING AND LEIGH MIDDLE (TH100)	Explore marine plans (marineservices.org.uk)	Medium - Third party project details published in the public domain and confirmed as being 'accurate'	Sea Disposal Site	Closed																		90.7	43.8	f		f	f	
Northey Island (TH058)	Explore marine plans (marineservices.org.uk)	Medium - Third party project details published in the public domain and confirmed as being 'accurate'	Sea Disposal Site	Open																		91.55	34.67	f	f	f	f	d
SHOEBURYNESS (TH090)	Explore marine plans (marineservices.org.uk)	Medium - Third party project details published in the public domain and confirmed as being 'accurate'	Sea Disposal Site	Closed																		92.6	45.1	f		f	f	
UPPER BLACKWATER ESTUARY (TH048)	Explore marine plans (marineservices.org.uk)	Medium - Third party project details published in the public domain and confirmed as being 'accurate'	Sea Disposal Site	Closed																		92.8	36.0	f		f	f	
MALDON SALTINGS 2 (TH063)	Explore marine plans (marineservices.org.uk)	Medium - Third party project details published in the public domain and confirmed as being 'accurate'	Sea Disposal Site	Closed																		93.4	36.4	f		f	f	
Maldon Saltings 3 (TH064)	Explore marine plans (marineservices.org.uk)	Medium - Third party project details published in the public domain and confirmed as being 'accurate'		Open																		93.4	36.4	f	f	f	f	d
MALDON SALTINGS (TH062)	Explore marine plans (marineservices.org.uk)	Medium - Third party project details published in the public domain and confirmed as being 'accurate'	Sea Disposal Site	Closed																		93.6	36.6	f		f	f	
SOUTHEND ON SEA BEACH (TH071)	Explore marine plans (marineservices.org.uk)	Medium - Third party project details published in the public domain and confirmed as being 'accurate'	Sea Disposal Site	Closed																		95.6	46.0	f		f	f	

Offshore Ornithology	Commercial Fisheries	Shipping and Navigation	Military and Civil Aviation	Seascape, Landscape and Visual	Marine Archaeology and Cultural Heritage	Other Marine Users and Activities
	a				g	g
	a				g	g
	a	d			c	f
	a				g	g
	a				g	g
	a				g	g
	a				g	g
	a				g	g
	a				g	g
	a				g	g
	a				g	g
	a	d			c	f
	a				g	g
	a				g	g
	a				g	g
	a	d			c	f
	a				g	g
	a				g	g



Table 6: Mili	tary, Aviatio	on and Radar					Cons	truction P	eriod (rec	d outline	denotes	s Five Estu	aries off	shore cons	structior	n period)			7													
Project	Data Source(s)	Data Confidence Assessment	Notes	Status of Development	2021 2022	2023	2024	2025	2026		2028	2029 2030	2031	2032	2033		2035 - 2045 2046 - 2056	2057 - 2067	Distance from the V array area (km)	E Distance from the VE Offshore Export Cable Corridor (km)	Physical Processes	Water and Sediment Quality	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammals	Offshore Ornithology	Commercial Fisheries	Shipping and Navigation	Military and Civil Aviation	Seascape, Landscape and Visual	Offshore archaeology	Other Marine Users and Activities
X5121 - X5120 - X5119 N+S Galloper Kentish Knock	NATS	High - Third party project details published in the publi domain and confirmed as being 'accurate' by the developer.	ic N/A	Active															0.0	0.0	d		d	d	a			a			с	a
X5117 Outer Gabbard	NATS	High - Third party project details published in the publi domain and confirmed as being 'accurate' by the developer.	ic Mine Counter Measures.	Active															4.2	0.0	d		d	d	a			а			с	a
X5118 Gunfleet	NATS	High - Third party project details published in the publi domain and confirmed as being 'accurate' by the developer.	ic N/A	Active															33.7	0.0	d		d	d	a			а			c	a
D138B SHOEBURYNESS	NATS	High - Third party project details published in the publi domain and confirmed as being 'accurate' by the developer.	ic N/A	Active															50.5	11.7	d		d	d	a			а			c	а
D138A SHOEBURYNESS	NATS	High - Third party project details published in the publi domain and confirmed as being 'accurate' by the developer.	ic N/A	Active															54.4	15.4	d		đ	d	a			a			c	a
D139 FINGRINGHOE	NATS	domain and confirmed as being 'accurate' by the developer.	ic Live Firing, Demolition of UXO and Unmanned Aircraft Systems (VLOS).	Active															73.9	15.7	d		d	d	a			a			c	f
D138 SHOEBURYNESS	NATS	High - Third party project details published in the publi domain and confirmed as being 'accurate' by the developer.	ic N/A	Active															60.2	20.5	d		d	d	a			а			с	f
D138C SHOEBURYNESS	NATS	High - Third party project details published in the publi domain and confirmed as being 'accurate' by the developer.	ic N/A	Active															75.3	25.7	d		d	d	a			а			с	f
D136 SHOEBURYNESS	NATS	High - Third party project details published in the publi domain and confirmed as being 'accurate' by the developer.	Unmanned Aircraft Systems (VLOS / BVLOS).	Active															87.1	40.9	d		d	d	a			а			с	f
D208 STANFORD	NATS	High - Third party project details published in the publi domain and confirmed as being 'accurate' by the developer.	Parachute Dropping, Bombing, ic Live Firing, Air Firing, Demolitior of UXO, High Energy Manoeuvre and Unmanned Aircraft System (VLOS).																99.9	74.2	d		d	d	a			а			f	f
D141 HYTHE RANGES	NATS	High - Third party project details published in the publi domain and confirmed as being 'accurate' by the developer.	ic Live Firing and Unmanned Aircra Systems (VLOS / BVLOS).	<sup>aft</sup> Active															101.2	82.1	d		d	d	a			а			f	f
D044 LYDD RANGES	NATS	High - Third party project details published in the publi domain and confirmed as being 'accurate' by the developer.	ic Live Firing, Demolition of UXO and Unmanned Aircraft Systems (VLOS).	Active															119.8	97.9	d		d	d	a			а			f	f
D206 CARDINGTON	NATS	High Third party project	ic Balloons and Unmanned Aircraft Systems (VLOS / BVLOS).	Active															171.4	115.1	d		d	d	a			a			f	f
D207 HOLBEACH	NATS	High Third party project	Bombing, Live Firing, Air Firing, Demolition of UXO, High Energy Manoeuvres and Unmanned Aircraft System (VLOS).	Active															151.1	126.0	d		d	d	a			а			f	f
D133A PIRBRIGHT	NATS	High - Third party project	Live Firing, Demolition of UXO and Unmanned Aircraft Systems (VLOS).	Active															193.0	139.6	d		d	d	a			а			f	f
D133 PIRBRIGHT	NATS	High - Third party project details published in the publi domain and confirmed as being 'accurate' by the developer.	ic N/A	Active															193.1	139.7	d		d	d	a			a			f	f
D132 ASH RANGES	NATS	High Third party project	ic Live Firing and Unmanned Aircra Systems (VLOS).	aft Active															194.8	141.7	d		d	d	a			a			f	f
D215 NORTH LUFFENHA	MNATS	developer. High - Third party project details published in the publi domain and confirmed as being 'accurate' by the developer.	CLOSE IN 2020 /2021.	Active															197.1	153.4	d		d	d	a			a			f	f
D130 LONGMOOR	NATS	High - Third party project	Live Firing, Demolition of UXO and Unmanned Aircraft Systems (VLOS).	Active															212.7	162.0	d		d	d	a			a			f	f
D129 WESTON ON THE C	GENATS	developer. High - Third party project details published in the publi domain and confirmed as being 'accurate' by the developer.	e Parachute Dropping.	Active															222.2	164.0	d		d	d	a			a			f	f



Table 6: Milit	arv. Aviatio	on and Radar																															
						_	Co	nstructio	n Period (r	red outlir	ne denot	tes Five E	stuaries	offshore	constru	ction pe	eriod)		1													1	
Project	Data Source(s)	Data Confidence Assessment	Notes	Status of Development	2021	2022	2023	2024 2025	2026	2027	2028	2029	2030	2031 2032	2033	2034	2035 - 2045	2046 - 2056	2057 - 2067	Distance from the array are (km)	VE Export	Physical Processes	Water and Sediment Quality	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammals	Offshore Ornithology	Commercial Fisheries	Shipping and Navigation	Military and Civil Aviation	Seascape, Landscape and Visual	Offshore archaeology	Other Marine Users and Activities
D323D SOUTHERN MDA	NATS	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.	° N/A	Active																167.0	172.9	d		d	d	a			a			f	f
D307 DONNA NOOK	NATS	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.	<ul> <li>Bombing, Live Firing, Air Firing, Demolition of UXO, High Energy Manoeuvres and Unmanned Aircraft System (VLOS).</li> </ul>	Active																199.4	185.3	d		d	d	a			a			f	f
D037 PORTSMOUTH	NATS	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.	Live Firing, Anti-Aircraft, Air to Ai Aircraft, Air to Surface, Flares, Glow Worm, General, Guided Weapons, Smoke, Starshell, Submarine, Parachute Dropping, Target Towing, UAV, Torpedo, Ai Combat, High Energy Manoeuvre and Pilotless Target Aircraft.	Active																227.3	185.8	d		d	d	a			a			f	f
D213 KINETON	NATS	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.	C Demolition of UXO.	Active																242.9	185.9	d		d	d	a			a			f	f
D039 PORTSMOUTH	NATS	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.	Live Firing, Anti-Aircraft, Air to Air, Aircraft, Air to Surface, Flares, Glow Worm, General, Guided Weapons, Mine, Smoke, Starshell, Torpedo, Surface to Surface, Parachute Dropping, Target Towing, UAV, Air Comburg, High Energy Manoeuvres.																	228.0	189.7	d		d	d	a			a			f	f
D040 PORTSMOUTH	NATS	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.	Anti-Aircraft (ground to air), General Practice, HM Ships (non fring exercises, practices and trials), Surface to Surface Firing, Live Firing, Parachute Dropping, Aerial Towed Target, Torpedo, UAV, Air Combat Manoeuvres an High Energy Manoeuvres.	Active																228.1	189.8	d		d	d	a			a			f	f
D305 BECKINGHAM	NATS	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.	Live Firing, Air Firing, Military c Exercises, Bombing, Demolition of UXO, High Energy Manoeuvres and Unmanned Aircraft System (VLOS).																	224.1	190.8	d		d	d	a			a			f	f



Table 6: Mili	tary, Aviatio	on and Radar					Cons	truction P	eriod (rec	d outline	denotes	s Five Estu	aries off	shore cons	structior	n period)			7													
Project	Data Source(s)	Data Confidence Assessment	Notes	Status of Development	2021 2022	2023	2024	2025	2026		2028	2029 2030	2031	2032	2033		2035 - 2045 2046 - 2056	2057 - 2067	Distance from the V array area (km)	E Distance from the VE Offshore Export Cable Corridor (km)	Physical Processes	Water and Sediment Quality	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammals	Offshore Ornithology	Commercial Fisheries	Shipping and Navigation	Military and Civil Aviation	Seascape, Landscape and Visual	Offshore archaeology	Other Marine Users and Activities
X5121 - X5120 - X5119 N+S Galloper Kentish Knock	NATS	High - Third party project details published in the publi domain and confirmed as being 'accurate' by the developer.	ic N/A	Active															0.0	0.0	d		d	d	a			a			с	a
X5117 Outer Gabbard	NATS	High - Third party project details published in the publi domain and confirmed as being 'accurate' by the developer.	ic Mine Counter Measures.	Active															4.2	0.0	d		d	d	a			а			с	a
X5118 Gunfleet	NATS	High - Third party project details published in the publi domain and confirmed as being 'accurate' by the developer.	ic N/A	Active															33.7	0.0	d		d	d	a			а			c	a
D138B SHOEBURYNESS	NATS	High - Third party project details published in the publi domain and confirmed as being 'accurate' by the developer.	ic N/A	Active															50.5	11.7	d		d	d	a			а			c	а
D138A SHOEBURYNESS	NATS	High - Third party project details published in the publi domain and confirmed as being 'accurate' by the developer.	ic N/A	Active															54.4	15.4	d		đ	d	a			a			c	a
D139 FINGRINGHOE	NATS	domain and confirmed as being 'accurate' by the developer.	ic Live Firing, Demolition of UXO and Unmanned Aircraft Systems (VLOS).	Active															73.9	15.7	d		d	d	a			a			c	f
D138 SHOEBURYNESS	NATS	High - Third party project details published in the publi domain and confirmed as being 'accurate' by the developer.	ic N/A	Active															60.2	20.5	d		d	d	a			а			с	f
D138C SHOEBURYNESS	NATS	High - Third party project details published in the publi domain and confirmed as being 'accurate' by the developer.	ic N/A	Active															75.3	25.7	d		d	d	a			а			с	f
D136 SHOEBURYNESS	NATS	High - Third party project details published in the publi domain and confirmed as being 'accurate' by the developer.	Unmanned Aircraft Systems (VLOS / BVLOS).	Active															87.1	40.9	d		d	d	a			а			с	f
D208 STANFORD	NATS	High - Third party project details published in the publi domain and confirmed as being 'accurate' by the developer.	Parachute Dropping, Bombing, ic Live Firing, Air Firing, Demolitior of UXO, High Energy Manoeuvre and Unmanned Aircraft System (VLOS).																99.9	74.2	d		d	d	a			а			f	f
D141 HYTHE RANGES	NATS	High - Third party project details published in the publi domain and confirmed as being 'accurate' by the developer.	ic Live Firing and Unmanned Aircra Systems (VLOS / BVLOS).	<sup>aft</sup> Active															101.2	82.1	d		d	d	a			а			f	f
D044 LYDD RANGES	NATS	High - Third party project details published in the publi domain and confirmed as being 'accurate' by the developer.	ic Live Firing, Demolition of UXO and Unmanned Aircraft Systems (VLOS).	Active															119.8	97.9	d		d	d	a			a			f	f
D206 CARDINGTON	NATS	High Third party project	ic Balloons and Unmanned Aircraft Systems (VLOS / BVLOS).	Active															171.4	115.1	d		d	d	a			a			f	f
D207 HOLBEACH	NATS	High Third party project	Bombing, Live Firing, Air Firing, Demolition of UXO, High Energy Manoeuvres and Unmanned Aircraft System (VLOS).	Active															151.1	126.0	d		d	d	a			а			f	f
D133A PIRBRIGHT	NATS	High - Third party project	Live Firing, Demolition of UXO and Unmanned Aircraft Systems (VLOS).	Active															193.0	139.6	d		d	d	a			а			f	f
D133 PIRBRIGHT	NATS	High - Third party project details published in the publi domain and confirmed as being 'accurate' by the developer.	ic N/A	Active															193.1	139.7	d		d	d	a			a			f	f
D132 ASH RANGES	NATS	High Third party project	ic Live Firing and Unmanned Aircra Systems (VLOS).	aft Active															194.8	141.7	d		d	d	a			a			f	f
D215 NORTH LUFFENHA	MNATS	developer. High - Third party project details published in the publi domain and confirmed as being 'accurate' by the developer.	CLOSE IN 2020 /2021.	Active															197.1	153.4	d		d	d	a			a			f	f
D130 LONGMOOR	NATS	High - Third party project	Live Firing, Demolition of UXO and Unmanned Aircraft Systems (VLOS).	Active															212.7	162.0	d		d	d	a			a			f	f
D129 WESTON ON THE C	GENATS	developer. High - Third party project details published in the publi domain and confirmed as being 'accurate' by the developer.	Parachute Dropping.	Active															222.2	164.0	d		d	d	a			a			f	f



Table 6: Milit	arv. Aviatio	on and Radar																															
						_	Co	nstructio	n Period (r	red outlir	ne denot	tes Five E	stuaries	offshore	constru	ction pe	eriod)		1													1	
Project	Data Source(s)	Data Confidence Assessment	Notes	Status of Development	2021	2022	2023	2024 2025	2026	2027	2028	2029	2030	2031 2032	2033	2034	2035 - 2045	2046 - 2056	2057 - 2067	Distance from the array are (km)	VE Export	Physical Processes	Water and Sediment Quality	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammals	Offshore Ornithology	Commercial Fisheries	Shipping and Navigation	Military and Civil Aviation	Seascape, Landscape and Visual	Offshore archaeology	Other Marine Users and Activities
D323D SOUTHERN MDA	NATS	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.	° N/A	Active																167.0	172.9	d		d	d	a			a			f	f
D307 DONNA NOOK	NATS	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.	<ul> <li>Bombing, Live Firing, Air Firing, Demolition of UXO, High Energy Manoeuvres and Unmanned Aircraft System (VLOS).</li> </ul>	Active																199.4	185.3	d		d	d	a			a			f	f
D037 PORTSMOUTH	NATS	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.	Live Firing, Anti-Aircraft, Air to Ai Aircraft, Air to Surface, Flares, Glow Worm, General, Guided Weapons, Smoke, Starshell, Submarine, Parachute Dropping, Target Towing, UAV, Torpedo, Ai Combat, High Energy Manoeuvre and Pilotless Target Aircraft.	Active																227.3	185.8	d		d	d	a			a			f	f
D213 KINETON	NATS	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.	C Demolition of UXO.	Active																242.9	185.9	d		d	d	a			a			f	f
D039 PORTSMOUTH	NATS	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.	Live Firing, Anti-Aircraft, Air to Air, Aircraft, Air to Surface, Flares, Glow Worm, General, Guided Weapons, Mine, Smoke, Starshell, Torpedo, Surface to Surface, Parachute Dropping, Target Towing, UAV, Air Comburg, High Energy Manoeuvres.																	228.0	189.7	d		d	d	a			a			f	f
D040 PORTSMOUTH	NATS	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.	Anti-Aircraft (ground to air), General Practice, HM Ships (non fring exercises, practices and trials), Surface to Surface Firing, Live Firing, Parachute Dropping, Aerial Towed Target, Torpedo, UAV, Air Combat Manoeuvres an High Energy Manoeuvres.	Active																228.1	189.8	d		d	d	a			a			f	f
D305 BECKINGHAM	NATS	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.	Live Firing, Air Firing, Military c Exercises, Bombing, Demolition of UXO, High Energy Manoeuvres and Unmanned Aircraft System (VLOS).																	224.1	190.8	d		d	d	a			a			f	f



Table 1: Ca	bles and Pipeli	nes				1		Construction Pe	riod (red c	outline der	notes Five I	Estuaries	offshore co	onstructio	on period)											1	1				
Project	Data Source(s)	Data Confidence Assessment	Notes	Status of Development	2021	2022	2023	2025 2026	2027	2028	2029 2030	2031	2032	2033	2034	2035 - 2045	2046 - 2056 2057 - 2067	Dis fro arr (kn	stance om the VE ray area m)	Distance from the VE Offshore Export Cable Corridor (km)	Marine Geology, Oceanography and Physical Processes	Marine Water and Sediment Quality	Benthic and ntertidal Ecology	ish and Shellfish Ecology	Marine Mammal Ecology	Offshore Ornithology	Commercial Fisheries	Sh ipping and Navigation	Military and Civil Aviation	Seascape, Landscape and Visual	Offshore Archaeology and Cuttural Heritage <u>Infrastrucutre and</u> Other Marine Users
ATLANTIC CROSSING 1	KISORCA	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Telecommunication Cable (Century Link)	Active														0.0		0.0	a	d	a	a	a		d	a			
Barrow OFTO	https://opendata- thecrownestate.opendata.arcgis .com/datasets/1bb9eff6e93942 e294fec2d80aad7a39	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Crown Estate	Offshore Wind Farm Export Cable (O&G)	Active/In Operation														40	7.0	372.2	d	d	d	a	a		d	a			d a
Belgium Energio Nordsoon Denmark	4COffshore	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Telecommunication Cable	Proposed														25.	.5	32.2	d	d	d	а	d		c	d			d a
Blyth Demo	https://opendata- thecrownestate.opendata.arcgis .com/datasets/1bb9eff6e93942 e294fec2d80aad7a39	High - Third party project details published in the public domain		Consented														420	0.3	408.2	d	d	d	a	d		d	d			
Blyth Demo Phase 1	https://opendata- thecrownestate.opendata.arcgis .com/datasets/1bb9eff6e93942 e294fec2d80aad7a39	and confirmed as being 'accurate' by the Crown Estate	Offshore Wind Farm Export Cable (O&G)	Active/In Operation														42	1.7	408.9	d	d	d	a	a		d	a			d a
BritNed Subsea Power Cable System	Digitised by GoBe	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Telecommunication Cable (Tennet)	Active														0.9	9	6.5	a	d	a	a	a		d	a			d a
Burbo Bank	https://opendata- thecrownestate.opendata.arcgis .com/datasets/1bb9eff6e93942 e294fec2d80aad7a39	High - Third party project details published in the public domain	Offshore Wind Farm Export Cable (O&G)	Active/In Operation														386	6.1	342.9	d	d	d	a	a		d	a			d a
Burbo Bank Extension OFTO	https://opendata- thecrownestate.opendata.arcgis .com/datasets/1bb9eff6e93942 e294fec2d80aad7a39		Offshore Wind Farm Export Cable (O&G)	Active/In Operation														40	1.0	357.4	d	d	d	a	a		d	a			сь
CIRCLE NORTH	KISORCA	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Telecommunication Cable (ZAYO)	Active														46.	.5	52.9	d	d	d	a	a		d	a			c c
CONCERTO	KISORCA	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Telecommunication Cable (Interoute)	Active														0.0	D	1.6	a	d	a	a a	a		d	a			
CONCERTO NORTH	KISORCA	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Telecommunication Cable (Interoute)	Active														26.	.3	32.9	d	d	d	a	a		d	a			e c
Dogger Bank C Transmission Asset	https://opendata- thecrownestate.opendata.arcgis .com/datasets/1bb9eff6e93942 e294fec2d80aad7a39	High - Third party project details published in the public domain		Consented														316	6.5	322.8	d	d	ci	a	d		d	d			d a
Doggerbank A OFTO	https://opendata- thecrownestate.opendata.arcgis .com/datasets/1bb9eff6e93942 e294fec2d80aad7a39	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Crown Estate	Offshore Wind Farm Export Cable (O&G)	Consented														268	8.8	258.5	d	d	d	a	d		d	d			d a
DoggerBank B OFTO	.com/datasets/ 1009e110e93942	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Crown Estate	Offshore Wind Farm Export Cable (O&G)	Consented														268	8.8	258.5	d	d	d	a	d		d	d			9 9
Dudgeon OFTO	https://opendata- thecrownestate.opendata.arcgis .com/datasets/1bb9eff6e93942 e294fec2d80aad7a39	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Crown Estate	Offshore Wind Farm Export Cable (O&G)	Active/In Operation														12	5.3	118.8	d	d	d	a	a		d	a			
EA1N Transmission Asset	.com/datasets/1bb9eff6e93942		Offshore Wind Farm Export Cable (O&G)	Consented														32.	.8	31.3	d	d	d	a	d		d	d			
EA1N Transmission Asset	https://opendata- thecrownestate.opendata.arcgis .com/datasets/1bb9eff6e93942 e294fec2d80aad7a39	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Crown Estate	Offshore Wind Farm Export Cable	Consented														32.	.8	31.3	d	d	d	a	d		d	d			
EA2 Transmission Asset	https://opendata- thecrownestate.opendata.arcgis .com/datasets/1bb9eff6e93942 e294fec2d80aad7a39			In Planning														5.3	3	11.6	d	d	d	a	d		d	d			c f
EA2 Transmission Asset	https://opendata- thecrownestate.opendata.arcgis .com/datasets/1bb9eff6e93942 e294fec2d80aad7a39	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Crown Estate	Offshore Wind Farm Export Cable	In Planning														5.3	3	11.6	d	d	d	a	d		d	d			c f
East Anglia One OFTO	https://opendata- thecrownestate.opendata.arcgis .com/datasets/1bb9eff6e93942 e294fec2d80aad7a39	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Crown Estate	Offshore Wind Farm Export Cable (O&G)	Active/In Operation														19.	.1	9.5	a	d	a	a	d		d	a			f
East Anglia One OFTO	https://opendata- thecrownestate.opendata.arcgis .com/datasets/1bb9eff6e93942 e294fec2d80aad7a39	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Crown Estate	Offshore Wind Farm Export Cable	Active/In Operation														19.	.1	9.5	d	d	d	a	d		d	a			f
East Anglia Three Transmission Asset	.com/datasets/1bb9eff6e93942	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Crown Estate	Offshore Wind Farm Export Cable (O&G)	Consented														19.	.5	6.6	d	d	a	a	d		d	d			c a



Table 1: Ca	bles and Pipeli	nes						Construction	n Period (r	red outline o	denotes Fi	ve Estuar	ies offshor	e constru	uction peri	od)															
Project	Data Source(s)	Data Confidence Assessment	Notes	Status of Development	2021	2022 2023	2024	2025	2026 2027	2028	2029	2030	2031 2032	2033	2034	2035 - 2045	2046 - 2056	2057 - 2067	Distance from the array are (km)	VE a Distance from the V Offshore Export Cable Corridor (km)	Marine Geology, Oceanography and Physical Processes	Marine Water and Sediment Quality	Benthic and ntertidal Ecology	ish and Shellfish Ecology	Marine Mammal Ecology	Offshore Ornithology	Commercial Fisheries	Shipping and Navigation	Military and Civil Aviation	Seascape, Landscape and Visual	Offshore Archaeology and Cultural Heritage Infrastrucutre and Other Marine Users
East Anglia Three Transmission Asset	https://opendata- thecrownestate.opendata.arcgie .com/datasets/1bb9eff6e93942 e294fec2d80aad7a39	'accurate' by the Crown Estate	Offshore Wind Farm Export Cable	Consented															19.5	6.6	d	d	d	a	d		d	d			c a
Eastern Link 1 Off Torness		Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Telecommunication Cable (BT)																504.6	493.5	d	d	d	d	d		d	d			fa
FARLAND NORTH	KISORCA	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Telecommunication Cable (BT)	Active															0.0	2.5	а	d	a	a	a		d	a			fa
Galloper	https://opendata- thecrownestate.opendata.arcgis .com/datasets/1bb9eff6e93942 e294fec2d80aad7a39		Offshore Wind Farm Export Cable (O&G)	Active/In Operation															2.0	0.0	a	d	a	a	a		d	a			f f
Galloper	https://opendata- thecrownestate.opendata.arcgi .com/datasets/1bb9eff6e93942 e294fec2d80aad7a39	High - Third party project details s published in the public domain and confirmed as being 'accurate' by the Crown Estate	Offshore Wind Farm Export Cable	Active/In Operation															2.0	0.0	a	d	a	a	a		d	a			f f
Galloper OFTO	https://opendata- thecrownestate.opendata.arcgis .com/datasets/1bb9eff6e93942 e294fec2d80aad7a39	High - Third party project details sublished in the public domain and confirmed as being 'accurate' by the Crown Estate	Offshore Wind Farm Export Cable (O&G)	Active/In Operation															9.3	12.6	d	d	d	a	a		d	a			g g
Galloper OFTO	https://opendata- thecrownestate.opendata.arcgis .com/datasets/1bb9eff6e93942 e294fec2d80aad7a39	High - Third party project details sublished in the public domain and confirmed as being 'accurate' by the Crown Estate	Offshore Wind Farm Export Cable	Active/In Operation															9.3	12.6	d	d	d	a	a		d	a			g g
Greater Gabbard OFTO	https://opendata- thecrownestate.opendata.arcgis .com/datasets/1bb9eff6e93942 e294fec2d80aad7a39		Offshore Wind Farm Export Cable (O&G)	Active/In Operation															8.2	0.0	а	d	a	a	a		d	a			g g
Greater Gabbard OFTO	https://opendata- thecrownestate.opendata.arcgis .com/datasets/1bb9eff6e93942 e294fec2d80aad7a39	High - Third party project details s published in the public domain and confirmed as being 'accurate' by the Crown Estate	Offshore Wind Farm Export Cable	Active/In Operation															8.2	0.0	a	d	a	a	a		d	a			c f
Gridlink	4COffshore	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Telecommunication Cable	Proposed															51.9	37.8	d	d	d	a	d		с	d			c f
Gunfleet Sands Demo	https://opendata- thecrownestate.opendata.arcgis .com/datasets/1bb9eff6e93942 e294fec2d80aad7a39	High - Third party project details published in the public domain	Offshore Wind Farm Export Cable (O&G)	Active/In Operation															59.1	5.1	a	d	a	a	a		d	a			c f
Gunfleet Sands Demo	https://opendata- thecrownestate.opendata.arcgis .com/datasets/1bb9eff6e93942 e294fec2d80aad7a39	High - Third party project details sublished in the public domain and confirmed as being 'accurate' by the Crown Estate	Offshore Wind Farm Export Cable	Active/In Operation															59.1	5.1	a	d	a	a	a		d	a			c f
Gunfleet Sands OFTO	https://opendata- thecrownestate.opendata.arcgis .com/datasets/1bb9eff6e93942 e294fec2d80aad7a39		Offshore Wind Farm Export Cable (O&G)	Active/In Operation															56.5	0.0	а	d	a	a	a		d	a			f f
Gunfleet Sands OFTO	https://opendata- thecrownestate.opendata.arcgis .com/datasets/1bb9eff6e93942 e294fec2d80aad7a39	High - Third party project details s published in the public domain and confirmed as being 'accurate' by the Crown Estate	Offshore Wind Farm Export Cable	Active/In Operation															56.5	0.0	a	d	a	a	a		d	a			c f
Gwynt y Mor OFTO	https://opendata- thecrownestate.opendata.arcgis .com/datasets/1bb9eff6e93942 e294fec2d80aad7a39	High - Third party project details sublished in the public domain and confirmed as being 'accurate' by the Crown Estate	Offshore Wind Farm Export Cable (O&G)	Active/In Operation															410.7	364.2	d	d	d	a	a		d	a			a a
HERMES NORTH	KISORCA	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Telecommunication Cable (No owner)	Disused															25.1	30.0	d	d	d				d	d			f f
HERMES SOUTH	KISORCA	Medium - Third party project details published in the public	Telecommunication Cable (No owner)	Disused															30.1	27.3	d	d	d				d	d			f f
Hornsea 1 OFTO	https://opendata- thecrownestate.opendata.arcgis .com/datasets/1bb9eff6e93942 e294fec2d80aad7a39	High - Third party project details published in the public domain	Offshore Wind Farm Export Cable (O&G)	Active/In Operation															197.0	189.0	d	d	d	a	a		d	a			f f
Hornsea 3 Transmission Asset	https://opendata- thecrownestate.opendata.arcgis .com/datasets/1bb9eff6e93942 e294fec2d80aad7a39	High - Third party project details sublished in the public domain and confirmed as being 'accurate' by the Crown Estate	Offshore Wind Farm Export Cable (O&G)	Consented															125.6	118.9	d	d	d	a			d	d			f f
Hornsea Project 2 OFTO	https://opendata- thecrownestate.opendata.arcgis .com/datasets/1bb9eff6e93942 e294fec2d80aad7a39		Offshore Wind Farm Export Cable (O&G)	Under Construction															197.5	189.5	d	d	d	a			d	a			f f
Hornsea Project 4 (HOW0 OFTO	https://opendata- 4) thecrownestate.opendata.arcgis .com/datasets/1bb9eff6e93942 e294fec2d80aad7a39		Offshore Wind Farm Export Cable (O&G)	In Planning															228.4	231.8	d	d	d	a			d	d			g g
Humber Gateway OFTO	https://opendata- thecrownestate.opendata.arcgis .com/datasets/1bb9eff6e93942 e294fec2d80aad7a39	High - Third party project details s published in the public domain and confirmed as being 'accurate' by the Crown Estate	Offshore Wind Farm Export Cable (O&G)	Active/In Operation															223.6	211.9	d	d	d	a	a		d	a			f f



Table 1: Cal	bles and Pipeli	nes					Cons	ruction Per	iod (red ou	tline der	notes Five I	stuaries o	ffshore cor	nstructio	on period)															
Project	Data Source(s)	Data Confidence Assessment	Notes	Status of Development	2021	2023	2024			2028	2029 2030	2031		2033	2034	2035 - 2045	2046 - 2056 2057 - 2067	Distan from th array a (km)	e VE	Marine Geology, Oceanography and Physical Processes	Marine Water and Sediment Quality	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammal Ecology	Offshore Ornithology	Commercial Fisheries	Shipping and Navigation	Military and Civil Aviation	Seascape, Landscape and Visual	Offshore Archaeology and Cultural Heritage nfrastrucutre and Other Marine Users
Inner Dowsing	https://opendata- thecrownestate.opendata.arcgis .com/datasets/1bb9eff6e93942 e294fec2d80aad7a39		Offshore Wind Farm Export Cable (O&G)	Active/In Operation														173.2	157.6	d	d	d	a	a		ci	a			f f
Kentish Flats	https://opendata- thecrownestate.opendata.arcgis .com/datasets/1bb9eff6e93942 e294fec2d80aad7a39		Offshore Wind Farm Export Cable (O&G)	Active/In Operation														73.5	41.0	d	d	d	a	a		d	a			f f
Kentish Flats	https://opendata- thecrownestate.opendata.arcgis .com/datasets/1bb9eff6e93942 e294fec2d80aad7a39	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Crown Estate	Offshore Wind Farm Export Cable	Active/In Operation														73.5	41.0	cl	d	d	a	a		d	a			g g
Lincs	https://opendata- thecrownestate.opendata.arcgis .com/datasets/1bb9eff6e93942 e294fec2d80aad7a39		Offshore Wind Farm Export Cable (O&G)	Active/In Operation														174.4	159.9	d	d	d	a	a		d	a			g g
Lincs OFTO	https://opendata- thecrownestate.opendata.arcgis .com/datasets/1bb9eff6e93942 e294fec2d80aad7a39	and confirmed as being 'accurate' by the Crown Estate	Offshore Wind Farm Export Cable (O&G)	Active/In Operation														157.7	130.5	d	d	d	a	a		d	a			r r
Lionlink	4COffshore	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Interconnector	Proposed														0.0	5.0	c	d	c	c			d				9 9
London Array OFTO	.com/datasets/1bb9eff6e93942 e294fec2d80aad7a39	and confirmed as being 'accurate' by the Crown Estate	Offshore Wind Farm Export Cable (O&G)	Active/In Operation														44.5	26.2	d	d	d	a	a		d	a			f f
London Array OFTO	.com/datasets/1bb9eff6e93942 e294fec2d80aad7a39	'accurate' by the Crown Estate	Offshore Wind Farm Export Cable	Active/In Operation														44.5	26.2	d	d	d	a	a		d	a			f f
Lynn	https://opendata- thecrownestate.opendata.arcgis .com/datasets/1bb9eff6e93942 e294fec2d80aad7a39		Offshore Wind Farm Export Cable (O&G)	Active/In Operation														170.3	153.9	d	d	d	a	a		d	a			f
Mercator	KISORCA	details published in the public domain but not confirmed as being 'accurate'	Telecommunication Cable	Proposed														31.9	30.2	d	d	d	a	a		с	d			f
Nautilius MPI	4COffshore	Medium - Third party project details published in the public domain but not confirmed as being 'accurate' Medium - Third party project	Interconnector	Proposed														0.0	0.0	c	c	c	c	d		c	e			f f
NEMO INTERCONNECTOR	R KISORCA	details published in the public domain but not confirmed as being 'accurate'	Telecommunication Cable (Nemo Link Ltd)	Active														47.0	48.8	d	d	d	a	a		d	a			f
Norfolk Boreas Transmission Asset	https://opendata- thecrownestate.opendata.arcgis .com/datasets/1bb9eff6e93942 e294fec2d80aad7a39	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Crown Estate	Offshore Wind Farm Export Cable (O&G)	Consented														79.3	85.8	d	d	d	a	d		d	d			r r
Norfolk Vanguard East Transmission Asset	https://opendata- thecrownestate.opendata.arcgis .com/datasets/1bb9eff6e93942 e294fec2d80aad7a39	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Crown Estate	Offshore Wind Farm Export Cable (O&G)	Consented														79.3	85.8	d	d	d		d		d	d			f f
Norfolk Vanguard West Transmission Asset	.com/datasets/1bb9eff6e93942 e294fec2d80aad7a39	'accurate' by the Crown Estate	Offshore Wind Farm Export Cable (O&G)	Consented														79.3	85.8	d	d	d	a	d		d	d			f f
Norsea Com 1	KISORCA	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Telecommunication Cable (Tampnet)	Active														48.4	54.9	d	d	d	a	а		d	а			f f
North Hoyle	https://opendata- thecrownestate.opendata.arcgis .com/datasets/1bb9eff6e93942 e294fec2d80aad7a39	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Crown Estate	Offshore Wind Farm Export Cable (O&G)	Active/In Operation														406.2	361.0	d	d	d	a	a		d	a			f f
NueConnect Interconnector	Digitised by GoBe	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Interconnector	Proposed														0.0	0.0	c	с	c	c	d		c	c			f f
Ormonde OFTO	https://opendata- thecrownestate.opendata.arcgis .com/datasets/1bb9eff6e93942 e294fec2d80aad7a39		Offshore Wind Farm Export Cable (O&G)	Active/In Operation														407.3	372.9	d	d	d	a	а		d	a			f f
PAN EUROPEAN CROSSING (PEC)	KISORCA	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Telecommunication Cable (Century Link)	Active														41.0	42.6	d	d	d	a	a		d	a			f f
PANGEA SOUTH-UK/NETH		Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Telecommunication Cable (ASN)	Active														48.9	55.4	d	d	d	a	a		d	a			f
Race Bank OFTO	https://opendata- thecrownestate.opendata.arcgis .com/datasets/1bb9eff6e93942 e294fec2d80aad7a39	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Crown Estate	Offshore Wind Farm Export Cable (O&G)	Active/In Operation														156.7	129.7	d	d	d	a	a		d	a			f f



Table 1: Ca	bles and Pipeli	nes						Construction	on Period	(red outline o	lenotes Five	e Estuarie	s offshore of	construct	tion period	d)			]												
Project	Data Source(s)	Data Confidence Assessment	Notes	Status of Development	2021	2022 2023	2024	2025	2026	2027 2028	2029	2030 2031	2032	2033	2034	2035 - 2045	2046 - 2056	2057 - 2067	Distance from the Vi array area (km)	E Distance from the VE Offshore Export Cable Corridor (km)	Marine Geology, Oceanography and Physical Processes	Marine Water and Sediment Quality	Benthic and ntertidal Ecology	ish and Shellfish Ecology	Marine Mammal Ecology	Offshore Ornithology	Commercial Fisheries	Shipping and Navigation	Military and Civil Aviation	Seascape, Landscape and Visual	Offshore Archaeology and Cultural Heritage nfrastrucutre and Other Marine Users
Rampion Transmission Asset	https://opendata- thecrownestate.opendata.arcgis .com/datasets/1bb9eff6e93942 e294fec2d80aad7a39			Active/In Operation															195.6	153.7	d	d 2 00	d	a	a		d	a 			f f
REMBRANDT 1	KISORCA	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Telecommunication Cable (No owner)	Disused															47.6	53.9	d	d	d	d	d		d	d			f f
REMBRANDT 2	KISORCA	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Telecommunication Cable (No owner)	Disused															25.1	26.5	d	d	d	d	d		d	d			f f
Rhyl Flats	https://opendata- thecrownestate.opendata.arcgis .com/datasets/1bb9eff6e93942 e294fec2d80aad7a39	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Crown Estate		Active/In Operation															409.9	363.5	d	d	d	a	а		d	a			f f
RIOJA 3	KISORCA	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Telecommunication Cable	Disused															46.3	51.8	d	d	d	d	d		d	d			f f
Robin Rigg OFTO	https://opendata- thecrownestate.opendata.arcgis .com/datasets/1bb9eff6e93942 e294fec2d80aad7a39	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Crown Estate	Offshore Wind Farm Export Cable (O&G)	Active/In Operation															480.8	450.7	d	d	d	a	a		đ	a			f f
Scroby Sands	https://opendata- thecrownestate.opendata.arcgis .com/datasets/1bb9eff6e93942 e294fec2d80aad7a39	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Crown Estate		Active/In Operation															74.0	80.9	d	d	d	a	a		d	a			f f
Sea Link (Kent-Suffolk SCDI)	4C Offshore https://www.nationalgrid.com/el ectricity-transmission/network- and-infrastructure/sealink https://infrastructure.planningins pectorate.gov.uk/projects/south- east/sea- link/?ipcsection=overview	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Telecommunication Cable No dates currently available as this project is pre-scoping.	Proposed (pre- s scoping)															26.5	0.0	с	c	c	c			c	c			f f
SEA-ME-WE3 SEG 10.4	KISORCA	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Telecommunication Cable (Deutsche Telekom AG)	Disused															45.4	50.8	d	d	d	d	d		d	d			f f
Sheringham Shoal OFTO	https://opendata- thecrownestate.opendata.arcgis .com/datasets/1bb9eff6e93942 e294fec2d80aad7a39	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Crown Estate	Offshore Wind Farm Export Cable (O&G)	Active/In Operation															125.4	118.8	d	d	d	a	а		đ	a			f f
TANGERINE	KISORCA	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Telecommunication Cable (Level 3)	Active															45.3	45.5	d	d	d	a	a		d	a			f f
TAT 14 (I)	KISORCA	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Telecommunication Cable	Disused															36.4	39.6	d	d	d	d	d		d	d			f f
Teeside B (Sofia) Transmission Asset	https://opendata- thecrownestate.opendata.arcgis .com/datasets/1bb9eff6e93942 e294fec2d80aad7a39	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Crown Estate	Offshore Wind Farm Export Cable (O&G)	Consented															318.1	324.6	d	d	d	a	a		d	d			f f
Teesside	https://opendata- thecrownestate.opendata.arcgis .com/datasets/1bb9eff6e93942 e294fec2d80aad7a39		Offshore Wind Farm Export Cable (O&G)	Active/In Operation															362.9	348.7	d	d	d	a	a		d	a			f f
Thanet OFTO	https://opendata- thecrownestate.opendata.arcgis .com/datasets/1bb9eff6e93942 e294fec2d80aad7a39		Offshore Wind Farm Export Cable (O&G)	Active/In Operation															47.9	41.4	d	d	d	a	a		d	a			f f
Thanet OFTO	https://opendata- thecrownestate.opendata.arcgis .com/datasets/1bb9eff6e93942 e294fec2d80aad7a39	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Crown Estate	Offshore Wind Farm Export Cable	Active/In Operation															47.9	41.4	d	d	d	a	a		d	a			f f
Triton Knoll	https://opendata-	High - Third party project details published in the public domain		Under Construction															176.3	167.3	d	d	d	a	d		d	a			f f
UK/BELGIUM 5	KISORCA	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Telecommunication Cable	Disused															45.2	43.8	d	d	d	d	d		d	d			f f
UK-NETHERLANDS 12	KISORCA	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Telecommunication Cable (BT)	Disused															0.0	3.6	d	d	d	a	d		d	d			f f
ULYSSES 2	KISORCA	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Telecommunication Cable (Verizon)	Active															43.5	49.5	d	d	d	a	а		d	a			f f
Walney 1 OFTO	https://opendata- thecrownestate.opendata.arcgis .com/datasets/1bb9eff6e93942 e294fec2d80aad7a39		Offshore Wind Farm Export Cable (O&G)	Active/In Operation															407.1	372.4	d	d	d	a	a		cl	a			f f
Walney 2 OFTO	https://opendata- thecrownestate.opendata.arcgis .com/datasets/1bb9eff6e93942 e294fec2d80aad7a39	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Crown Estate	Offshore Wind Farm Export Cable (O&G)	Active/In Operation															406.2	369.1	d	d	d	a	a		d	a			f f



Table 1: Cal	bles and Pipeli	nes																															
				-				Constr	uction P	Period (re	d outline	denotes	Five Estua	ries offsl	hore cons	struction	n period)																
Project	Data Source(s)	Data Confidence Assessment	Notes	Status of Development	2021	2022	2023	2024 2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035 - 2045	2046 - 2056	2057 - 2067	Distance from the VI array area (km)		Marine Geology, Oceanography and Physical Processes	Marine Water and Sediment Quality	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammal Ecology	Offshore Ornithology	Commercial Fisheries	Shipping and Navigation	Military and Civil Aviation	Seascape, Landscape and Visual	Offshore Archaeology and Cutural Heritage Infrastrucutre and Other Marine Users
Walney Extension OFTO	thecrownestate.opendata.arcgis .com/datasets/1bb9eff6e93942		Offshore Wind Farm Export Cable (O&G)	e Active/In Operation																	407.2	372.1	d	d	d	a	a		d	a			f f
Wave Hub			Offshore Wind Farm Export Cable (O&G)	e Active/In Operation																	552.1	498.5	d	d	d	a	a		d	a			f f
West of Duddon Sands OFTO	thecrownestate.opendata.arcgis .com/datasets/1bb9eff6e93942		Offshore Wind Farm Export Cable (O&G)	e Active/In Operation																	407.2	372.1	d	d	d	a	a		d	a			f f
Westermost Rough OFTO	theoreumostate energies	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Crown Estate	Offshore Wind Farm Export Cable (O&G)	e Active/In Operation																	241.5	229.6	d	d	d	a	a		d	a			ff



Table	e 8: Carbo	n Cantu	e Sto	orage																															
Tubh		n ouptui		Juge					Const	uction Pe	riod (red	outline d	enotes Five	e Estuaries	offshore	constructi	on period	)																	
Project	Data Source(s)	Data Confidence Assessment	Notes	Status of Development	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035 - 2045	2046 - 2056	2057 - 2067	Distance from the VE array area (km	Distance from the VI Offshore Export Cable Corridor (km)	т Physical Processes	Water and Sediment Quality	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammals	Offshore Ornithology	Commercial Fisheries	Shipping and Navigation	Military and Civil Aviation	Seascape, Landscape and Visual	Offshore archaeology	Other Marine Users and Activities
Endurance	https://opendata- thecrownestate.ope ndata.arcgis.com/d atasets/8cae2b24b 1f6457c8311af3e7 94246d3	details published in the public domain	Carbon Capture	Area for Lease																		235.4	238.1	f		f	f				f			f	f
NEP Exploration Drilling Licence	https://opendata- thecrownestate.ope ndata.arcgis.com/d atasets/8cae2b24b 1f6457c8311af3e7 94246d3	public domain and confirmed	and	Area for Lease																		263.3	263.1	f		f	f				f			f	f

Table 7: Coa	astal				Constructio	n Poriod (	ed outline den	otos Eivo	Estuarios	offehoro	construction	a poriod)																		
					Constructio			otes rive	Estuaries	bitshore	construction							Distance		lity	ABo	fish	als		_	<b>v</b> _	ivi	P	<u> </u>	0
Project	Data Source(s)	Data Confidence Assessment	Notes	Status of Development	2021 2022	2023	2024 2025	2026	2027 2028	2029	2030	2031	2032 2033	2034	2035 - 2045 2046 - 2056	- 20	Distance from the VE array area (km)	from the VE Offshore Export Cable Corridor (km)	sic	Water and Sediment Qua	Benthic and ntertidal Ecolo	ish and Shell Ecology	Marine Mamm	Offshore Ornithology	Commercia Fisheries	Shipping an Navigation	Military and Cr Aviation	Seascape, Landscape al Visual	Offshore archaeolog)	Other Marin Users and Activities
MTF_INDUSTRIAL.1996	4 Environment Agency	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Crown Estate	Outfall pipe	Active													57.2	0.0	a		a	a	a			a		f	d	d
MTF_INDUSTRIAL.2015	2 Environment Agency	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Crown Estate	Outfall pipe	Active													56.0	0.0	a		a	a	a			a		f	d	d
MTF_INDUSTRIAL.2015	Environment Agency	being 'accurate' by the Crown Estate	Outfall pipe	Active													57.4	0.0	a		a	a	a			a		f	d	d
MTF_INDUSTRIAL.2015	5 Environment Agency	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Crown Estate	Outfall pipe	Active													55.4	0.9	a		a	a	a			a		f	d	f
MTF_INDUSTRIAL.2015	5 Environment Agency	being 'accurate' by the Crown Estate	Outfall pipe	Active													59.8	2.1	a		a	a	a			a		f	d	f
MTF_INDUSTRIAL.2015	7 Environment Agency	being 'accurate' by the Crown Estate	Outfall pipe	Active													53.6	3.3	a		a	a	a			a		f	d	f
MTF_INDUSTRIAL.2015	3 Environment Agency	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Crown Estate High - Third party project	Outfall pipe	Active													62.2	4.9	a		a	a	a			a		f	d	f
MTF_INDUSTRIAL.2107	B Environment Agency	details published in the public domain and confirmed as being 'accurate' by the Crown Estate	Outfall pipe	Active													62.4	5.2	a		а	a	a			a		f	d	f
MTF_INDUSTRIAL.2178	B Environment Agency	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Crown Estate	Outfall pipe	Active													52.9	5.2	a		а	a	a			a		f	d	f
MTF_INDUSTRIAL.2178	Environment Agency	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Crown Estate	Outfall pipe	Active													52.7	5.5	a		a	a	a			a		f	d	f
MTF_INDUSTRIAL.2196	1 Environment Agency	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Crown Estate	Outfall pipe	Active													62.7	5.6	a		a	a	a			a		f	d	f
MTF_INDUSTRIAL.2196	2 Environment Agency	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Crown Estate	Outfall pipe	Active													63.9	6.9	a		a	a	a			a		f	d	f
MTF_INDUSTRIAL.2196	3 Environment Agency	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Crown Estate	Outfall pipe	Active													65.1	8.0	a		a	a	a			a		f	d	f
MTF_INDUSTRIAL.2196	Environment Agency	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Crown Estate	Outfall pipe	Active													65.5	8.4	a		a	a	a			a		f	d	f
MTF_INDUSTRIAL.2196	5 Environment Agency	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Crown Estate	Outfall pipe	Active													65.5	8.6	a		a	a	a			a		f	d	f
MTF_INDUSTRIAL.2196	6 Environment Agency	being 'accurate' by the Crown Estate	Outfall pipe	Active													49.7	9.3	a		a	a	a			a		f	d	f
MTF_INDUSTRIAL.2196	7 Environment Agency	being 'accurate' by the Crown Estate	Outfall pipe	Active													48.5	11.4	а		a	a	a			a		f	d	f
MTF_INDUSTRIAL.2196	B Environment Agency	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Crown Estate	Outfall pipe	Active													54.2	12.0	а		a	a	a			a		f	d	f
MTF_INDUSTRIAL.2196	9 Environment Agency	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Crown Estate	Outfall pipe	Active													55.3	12.9	a		a	a	a			a		f	d	f
MTF_INDUSTRIAL.2197	2 Environment Agency	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Crown Estate	Outfall pipe	Active													55.1	12.9	a		a	a	a			a		f	d	f



Table 7: Co	astal				<b>L</b>								-				1													
					Construct	on Period	(red outline de	notes Fiv	e Estuaries	s offshoi	re constructio	on period						Distance		īty	X6	hsi	S.				ī	σ		
Project	Data Source(s)	Data Confidence Assessment	Notes	Status of Development	2021 2022	2023	2024 2025	2026	2027	2028	2029 2030	2031	2032	2034	2035 - 2045 2046 - 2056	2057 - 2067	Distance from the VE array area (km)	from the VE	ss	Water and Sediment Quali	Benthic and Intertidal Ecolo	Fish and Shelffi Ecology	Marine Mamma	Offshore Ornithology	Commercial Fisheries	Shipping and Navigation	Military and Ch Aviation	Seascape, Landscape an Visual	Offshore archaeology	Other Marine Users and Activities
MTF_INDUSTRIAL.2197	3 Environment Agency	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Crowr Estate	Outfall pipe	Active													71.3	13.1	a		a	a	a			a		f	d	f
MTF_INDUSTRIAL.2197	4 Environment Agency	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Crowr Estate	Outfall pipe	Active													71.6	13.4	а		а	a	a			а		f	d	f
MTF_INDUSTRIAL.2200	8 Environment Agency	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Crowr Estate	Outfall pipe	Active													57.9	13.6	a		a	a	a			a		f	d	f
MTF_INDUSTRIAL.2200	9 Environment Agency	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Crowr Estate	Outfall pipe	Active													71.9	13.7	a		a	a	a			а		f	d	f
MTF_INDUSTRIAL.2201	D Environment Agency	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Crowr Estate	Outfall pipe	Active													55.7	13.9	a		а	a	a			a		f	d	f
MTF_INDUSTRIAL.2201	1 Environment Agency	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Crowr Estate	Outfall pipe	Active													55.8	14.0	a		а	a	a			а		f	d	f
MTF_INDUSTRIAL.2201	2 Environment Agency	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Crowr Estate	Outfall pipe	Active													56.4	14.6	a		a	a	a			a		f	d	f
MTF_INDUSTRIAL.2201	3 Environment Agency	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Crowr Estate	Outfall pipe	Active													56.7	14.8	a		a	a	a			а		f	d	f
MTF_INDUSTRIAL.2201	4 Environment Agency	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Crowr Estate	Outfall pipe	Active													56.3	14.9	a		a	a	a			a		f	d	f
MTF_INDUSTRIAL.2201	5 Environment Agency	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Crowr Estate	Outfall pipe	Active													66.7	17.1	a		a	a	a			a		f	d	f
MTF_INDUSTRIAL.2201	6 Environment Agency	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Crowr Estate	Outfall pipe	Active													69.3	18.1	a		a	a	a			a		f	d	f
MTF_INDUSTRIAL.2201	7 Environment Agency	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Crowr Estate	Outfall pipe	Active													40.5	20.2	a		a	a	a			а		f	d	f
MTF_INDUSTRIAL.2201	8 Environment Agency	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Crowr Estate	Outfall pipe	Active													39.2	20.7	a		a	a	a			а		f	d	f
MTF_INDUSTRIAL.2201	9 Environment Agency	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Crowr Estate	Outfall pipe	Active													39.1	20.9	a		a	a	a			а		f	d	f
MTF_INDUSTRIAL.2202	D Environment Agency	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Crowr Estate	Outfall pipe	Active													39.0	21.1	a		a	a	a			а		f	d	f
MTF_INDUSTRIAL.2202	1 Environment Agency	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Crowr Estate	Outfall pipe	Active													38.9	21.1	a		a	a	a			a		f	d	f
MTF_INDUSTRIAL.2266	3 Environment Agency	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Crowr Estate	Outfall pipe	Active													38.9	21.1	a		a	a	a			a		f	d	f
MTF_INDUSTRIAL.2768	9 Environment Agency	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Crowr Estate	Outfall pipe	Active													37.4	27.4	a		a	a	a			a		f	d	f
MTF_INDUSTRIAL.2769	1 Environment Agency	High - Third party project details published in the public	Outfall pipe	Active													40.9	35.6	a		a	a	a			a		f	d	f
MTF_INDUSTRIAL.2791	2 Environment Agency	High - Third party project details published in the public	Outfall pipe	Active													41.0	35.7	a		a	a	a			a		f	d	f



Table 7: Coas	stal																																
	<u> </u>				Constructio	on Period	(red ou	Itline denot	tes Five	Estuaries	s offsho	re constr	uction pe	eriod)																			
Project	Data Source(s)	Data Confidence Assessment	Notes State Devo	tus of relopment	2021 2022	2023	2024	2025	2026	2027	2028	2029	2030 2031	2032	2033	2034	2035 - 2045	2046 - 2056	2057 - 2067	Distance from the VE array area (km)	Distance from the Vi Offshore Export Cat Corridor (km)	Physical Processes	Water and Sediment Quality	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammals	Offshore Ornithology	Commercial Fisheries	Shipping and Navigation	Military and Civil Aviation	Seascape, Landscape and Visual	Offshore archaeology	Other Marine Users and Activities
MTF_INDUSTRIAL.27958	Environment Agency	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Crown Estate	Outfall pipe Activ	ve																41.3	36.1	a		a	a	a			a		f	d	f
MTF_INDUSTRIAL.27964	Environment Agency	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Crown Estate	Outfall pipe Activ	ve																59.2	66.2	a		a	a	a			a		f	f	f
Portland Bill	om/page/UKMED2; https://opendata-	.c High - Third party project details published in the public domain and confirmed as a. being 'accurate' by The Crowr Estate	Tidal Energy	-planning lication																344.4	294.7	f		f	f	f			f		f	f	f
Sizewell C Nuclear Power Station		<ul> <li>High - Third party project</li> <li>details published in the public domain</li> </ul>	Nuclear Energy Cons	sented																41.9	36.6	f		f	f	f			f		c	f	f



				Constru	ction Peri	iod (red c	outline der	notes Five	Estuaries	s offshor	e constru	ction peri	od)																			
Project	Data Confidence Assessment	Notes	Status of Develop ment	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035 - 20 <mark>XX</mark>	Distanc e from the VE array area (km)	Distanc e from the VE Offshor e Export Cable Corridor (km)	Physical Processes	Water and Sediment Quality	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammals	Offshore Ornithology	Commercial Fisheries	Shipping and Navigation	Military and Civil Aviation	Seascape, Landscape and Visual	Offshore archaeology	Other Marine Users and Activities
Viking Link IC	High – Third-party projec details published in the public domain and confirmed as being 'accurate' by the developer.	t N/A	Construc tion																								d					
Interconnexion France-Angleterre 2-IFA-2 HVDC	High – Third-party projec e details published in the public domain and confirmed as being 'accurate' by the developer.	t N/A	Operatio nal																						a		a					
Cross Channel Fibre[6]	High – Third-party projec details published in the public domain and confirmed as being 'accurate' by the developer.		Operatio nal																						a		a					
Aquind (UK to France)	High – Third-party projec details published in the public domain and confirmed as being 'accurate' by the developer.	t N/A	Planning																						a .		đ					

Table 4: Offshore Ren	ewable Energy				<u> </u>			(	Construct	ion Peric	od (red o	utline den	otes Fiv	e Estuario	s offsho	re consti	ruction pe	eriod)				7		
Project	Data Source(s)	Data Confidence Assessment	Notes	Status of Development	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035 - 2045	2046 - 2056	2057 - 2067	Distance from the VE array area (km)	Distance from the VE Offshore Export Cable Corridor (km)	Marine Mammal Ecology
Aberdeen (EOWDC)	https://powerplants.vatte nfall.com/aberdeen/	High – Third-party project details published in the public domain and confirmed as being 'accurate' by the developer.	Offshore Wind Farm	Active/In Operation																		637.7	631.2	a
Albatros	4C Offshore	High - Third party project details published in the public domain	Offshore Wind Farm	Active/In Operation																		382.5	389.8	a
Alderney Race Tidal	N/A	High - Third party project details published in the public domain and confirmed as being 'accurate' by The Crowr Estate	Tidal Energy	Active/In Operation																		373.7	332.5	а
Alpha Ventus	4C Offshore	High - Third party project details published in the public domain	Offshore Wind Farm	Active/In Operation																		366.0	373.6	a
Amrumbank West	4C Offshore	High - Third party project details published in the public domain	Offshore Wind Farm	Active/In Operation																		454.3	461.9	а
Arven	https://www.mainstream p.com/markets- projects/europe/united- kingdom/arven-scotwind- wind-farm/	High – Third-party project details published in the public domain and confirmed as being 'accurate' by the developer.	Offshore Wind Farm	In Planning																		919.1	924.4	с
Aspen	4C Offshore	High – Third-party project details published in the public domain and confirmed as being 'accurate' by the developer.	Offshore Wind Farm	Construction Information Unknow	n																	646.1	647.7	c
Avalon Floating	4C Offshore	High - Third party project details published in the public domain	Offshore Wind Farm	Under Construction																				a
Ayre	https://www.4coffshore.c om/windfarms/united- kingdom/project-dates-fo cluaran-ear-thuath- uk6e.html	High – Third-party project details published in the public domain and confirmed as being 'accurate' by the developer.	Offshore Wind Farm	In Planning																		797.8	795.2	c
BARD Offshore 1	4C Offshore	High - Third party project details published in the public domain	Offshore Wind Farm	Active/In Operation																		355.4	362.7	а
Beatrice	4C Offshore	High - Third party project details published in the public domain	Offshore Wind Farm	Active/In Operation																		759.2	752.2	a
Beech	4C Offshore	High - Third party project details published in the public domain	Offshore Wind Farm	Construction Information Unknow	n																	641.5	647.9	c
Bellrock	https://www.power- technology.com/marketda ta/power-plant-profile- bellrock-offshore-wind-uk	High - Third party project details published in the public domain	Offshore Wind Farm	Under Construction																		549.6	550.9	c
Belwind phase 1	4C Offshore	High - Third party project details published in the public domain	Offshore Wind Farm	Active/In Operation																		44.2	46.1	a
Belwind phase 2 (Nobelwind) (Zone 1)	4C Offshore	High - Third party project details published in the public domain	Offshore Wind Farm	Active/In Operation																		43.4	45.2	а
Belwind phase 2 (Nobelwind) (Zone 2)	4C Offshore	High - Third party project details published in the public domain	Offshore Wind Farm	Active/In Operation																		46.1	48.5	а
Berwick Bank Firth of Forth	4C Offshore	High - Third party project details published in the public domain	Offshore Wind Farm	In Planning																		507.8	499.7	с
BlueTec Floating platform	N/A	High - Third party project details published in the public domain	Floating Tidal Platform	Active/In Operation																		204.08	211.87	а
Blyth	https://opendata- thecrownestate.opendata arcgis.com/datasets/22a1 be6fb0c5416e9369f97743 387b1	High - Third party project details published in the public domain and confirmed as being 'accurate' by The Crowr Estate	Offshore Wind Farm	Inactive/Decommiss oned	i																	423.0	409.8	a
Blyth Demo Phase 1	https://opendata- thecrownestate.opendata arcgis.com/datasets/22a1 be6fb0c5416e9369f97743 387b1		Offshore Wind Farm	Active/In Operation																		417.4	404.6	a
Blyth Demonstration Site	https://opendata- thecrownestate.opendata arcgis.com/datasets/22a1 be6fb0c5416e9369f97743 387b1	High - Third party project details published in the public domain and confirmed as f being 'accurate' by The Crowr Estate	Offshore Wind Farm	Under Construction																		415.9	403.8	a
Borkum Riffgrund 1	4C Offshore	High - Third party project details published in the public domain	Offshore Wind Farm	Active/In Operation																		358.8	366.4	а
Borkum Riffgrund 2	4C Offshore	High - Third party project details published in the public domain	Offshore Wind Farm	Active/In Operation																		354.6	362.3	а
Borkum Riffgrund 3	4C Offshore	High - Third party project details published in the public domain	Offshore Wind Farm	Under Construction																		342.1	349.6	a
Borssele	4C Offshore	High - Third party project details published in the public domain	Offshore Wind Farm	Active/In Operation																		41.3	42.2	a

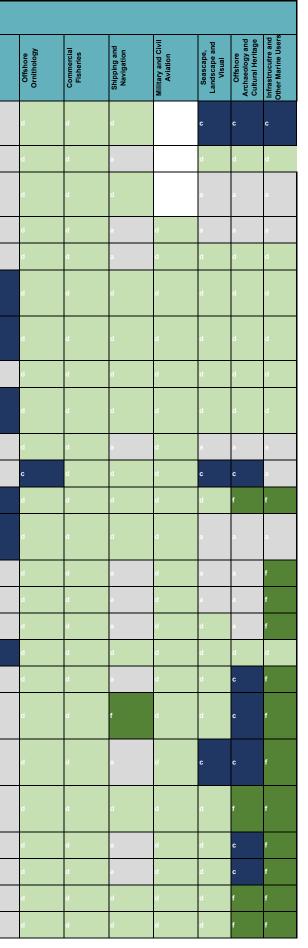




Table 4: Offshore Ren	ewable Energy				_			c	onstructi	on Perio	d (red out	line deno	otes Five I	Estuaries	offshore	construe	ction period)													
Project	Data Source(s)	Data Confidence Assessment	Notes	Status of Development	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2035 - 2045	2046 - 2056	2057 - 2067	Distance from the array are (km)	VE Export	т Marine Mammal Ecology	Offshore Ornithology	Commercial Fisheries	Shipping and Navigation	Military and Civil Aviation	Seascape, Landscape and Visual	Offshore Archaeology and Cuttural Heritage	Infrastrucutre and Other Marine Users
Borssele Kavel I	4C Offshore	High - Third party project details published in the public domain	c Offshore Wind Farm	Active/In Operation																	53.2	55.8	a	d	d	a	d	d	f	f
Borssele Kavel II	4C Offshore	High - Third party project details published in the public domain	C Offshore Wind Farm	Active/In Operation																	60.0	62.0	а	d	d	a	d	d	f	f
Borssele Kavel III	4C Offshore	High - Third party project details published in the public domain	C Offshore Wind Farm	Active/In Operation																	50.7	52.4	a	d	d	a	d	d	f	f
Borssele Kavel IV	4C Offshore	High - Third party project details published in the public domain	c Offshore Wind Farm	Active/In Operation																	41.3	42.2	a	d	d	a	d	d	f	f
Borssele Kavel V	4C Offshore	High - Third party project details published in the public domain	c Offshore Wind Farm	Active/In Operation																	56.1	58.0	a	d	d	а	d	d	f	f
Bowdun	https://www.offshorewin scotland.org.uk/news/202 3/march/20/ayre-and- bowdun-twp-names-its- scotwind-projects/	d High - Third party project details published in the public domain	c Offshore Wind Farm	In Planning																	590.1	585.4	с	d	d	d	d	d	f	f
Broadshore	https://www.power- technology.com/marketd: ta/power-plant-profile- broadshore-uk/	<sup>a</sup> High - Third party project details published in the public domain	c Offshore Wind Farm	Construction Information Unknow	vn																725.9	723	с	d	d	d	d	d	f	f
Buchan	https://www.power- technology.com/marketd: ta/power-plant-profile- buchan-offshore-wind- project-uk/	<ul> <li>High - Third party project details published in the public domain</li> </ul>	c Offshore Wind Farm	In Planning																	727.7	726.7	с	d	d	d	d	d	f	f
Buitengaats / Gemini I	4C Offshore	High - Third party project details published in the public domain	c Offshore Wind Farm	Active/In Operation																	337.0	344.5	а	d	d	а	d	d	f	f
Butendiek	4C Offshore	High - Third party project details published in the public domain	c Offshore Wind Farm	Active/In Operation																	493.3	500.7	a	d	d	a	d	d	f	f
Caledonia	https://www.caledoniaoff horewind.com/wp- content/uploads/2022/10 UKCAL1-ARP- GEN%E2%80%94ENV-RPT 00001-Offshore-Scoping- Report.pdf	fs // High - Third party project details published in the public	C Offshore Wind Farm	In Planning																	729	723.3	c	d	d	d	d	d	f	f
CampionWind	https://campionwind.co.u <u>k/</u>	High - Third party project details published in the public domain	C Offshore Wind Farm	Construction Information Unknow	vn																579.1	582.6	с	d	d	d	d	d	f	f
Cedar	4C Offshore	High - Third party project details published in the public domain	c Offshore Wind Farm	Construction Information Unknow	vn																539.7	545.3	c	d	d	d	d	d	f	f
Cenos	<u>hore_windfarm</u> _flotation_energy_ltd	it fs High - Third party project details published in the public domain	c Offshore Wind Farm	In Planning																	561.6	568.1	c	d	d	d	d	d	f	f
Centre-Manche 1	press-releases/edf- renewables-and-maple- power-awarded-the- fourth-offshore-wind- tender-launched-by-the- french-state-securing-a- one-gigawatt-project-off the-coast-of-normandy- france	a e- High - Third party project details published in the public domain - -	c Offshore Wind Farm	In Planning																	276	244.2	c	d	d	d	đ	1	f	f
Centre-Manche 2	https://www.power- technology.com/marketdi ta/power-plant-profile- centre-manche-2-wind- offshore-project-france/	<ul> <li>High - Third party project details published in the public domain</li> </ul>	C Offshore Wind Farm	Construction Information Unknow	/n																269.8	239.8	с	d	d	d	d	d	f	f
Courseulles-sur-mer	4C Offshore	High - Third party project details published in the public domain	c Offshore Wind Farm	Active/In Operation																	308.3	284.0	a	d	d	d	d	d	f	f
C-Power (Zone A)	4C Offshore	High - Third party project details published in the public domain	C Offshore Wind Farm	Active/In Operation																	55.8	59.0	a	d	d	а	d	d	f	f
C-Power (Zone B)	4C Offshore	High - Third party project details published in the public domain	C Offshore Wind Farm	Active/In Operation																	59.4	62.2	a	d	d	а	d	d	f	f
Culzean	https://www.energyvoice com/oilandgas/north- sea/298711/total-culzean platform-electrification/	High - Third party project details published in the public domain	C Floating Offshore Wind Farm	Under Construction																	577.14	583.51	a	d	d	d	d	d	f	f
DanTysk	4C Offshore	High - Third party project details published in the public domain	c Offshore Wind Farm	Active/In Operation																	471.9	479.1	a	d	d	a	d	d	f	f



Table 4: Offshore Re	newable Energy								Construct	tion Perio	od (red ou	tline den	otes Five	Estuarie	es offshor	e constru	uction pe	riod)				1									
Project	Data Source(s)	Data Confidence Assessment	Notes	Status of Development	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035 - 2045	2046 - 2056	2057 - 2067	Distance from the V array area (km)	Export	m Marine Mammal Ecology	Offshore Ornithology	Commercial Fisheries	Shipping and Navigation	Military and Civil Aviation	Seascape, Landscape and Visual	Offshore Archaeology and	Cuttural memory Infrastrucutre and Other Marine Users
Deerness	https://www.offshore- energy.biz/wave-power- for-subsea-equipment- demo-starts-off-orkney/	High - Third party project details published in the publi domain	c Wave Energy	Inactive/Decommiss oned	si																	824.2	819.6	a	đ	d	d	d	đ	f	f
Den Oever Project	N/A	High - Third party project details published in the publi domain	c Offshore Wind Farm	Active/In Operation																		215.02	222.9	а	d	d	f	d	d	f	f
Deutsche Bucht	4C Offshore	High - Third party project details published in the publi domain	c Offshore Wind Farm	Active/In Operation																		346.8	354.0	a	d	d	a	d	d	f	f
Dieppe - Le Treport	4C Offshore	High - Third party project details published in the publi domain	c Offshore Wind Farm	In Planning																		181.5	176.8	a	d	d	d	d	d	f	f
Docking Shoal Met Mast	4C Offshore	High - Third party project details published in the publi domain	c Offshore Wind Farm	Inactive/Decommiss oned	si																	163.2	150.5	a	d	d	f	d	d	f	f
Dogger Bank A	https://opendata- thecrownestate.opendata arcgis.com/datasets/22a1 be6fb0c5416e9369f9774: 387b1	High - Third party project details published in the publi domain and confirmed as being 'accurate' by The Crov Estate	Offshore Wind Farm	Under Construction																		296.1	302.5	а	d	d	a	d	d	f	f
Dogger Bank B	https://opendata_ thecrownestate.opendata arcgis.com/datasets/22a1 be6fb0c5416e9369f97743 387b1	High - Third party project details published in the publi domain and confirmed as being 'accurate' by The Crow Estate	Offshore Wind Farm	Under Construction																		318.7	325.1	a	d	d	d	d	d	f	f
Dogger Bank C	https://opendata- thecrownestate.opendata arcgis.com/datasets/22a1 be6fb0c5416e9369f97743 387b1	High - Third party project details published in the publi domain and confirmed as being 'accurate' by The Crow Estate	Offshore Wind Farm	Under Construction																		330.5	336.5	с	d	d	d	d	d	f	f
Dogger Bank D	https://opendata- thecrownestate.opendata arcgis.com/datasets/22a1 be6fb0c5416e9369f97743 387b1	High - Third party project details published in the publi domain and confirmed as being 'accurate' by The Crov Estate	Offshore Wind Farm	In Planning																		330.5	336.5	с	d	d	d	d	d	f	f
Dogger Bank East Met Mast	4C Offshore	High - Third party project details published in the publi domain	c Offshore Wind Farm	Inactive/Decommiss oned	si																	346.4	352.4	a	d	c	f	d	d	f	f
Dogger Bank South (East)	https://infrastructure.pla ninginspectorate.gov.uk wp- content/ipc/uploads/pro ects/EN010125/EN010 25-000181-0BS%20- %20Environmental%20 mpact%20Assessment %20Scoping%20Repor pdf	d I I High - Third party project details published in the publi I domain	c Offshore Wind Farm	In Planning																		263.1	269.5	c	đ	d	d	d	d	f	f
Dogger Bank South (West)	https://infrastructure.pla ninginspectorate.gov.uk wp- content/ipc/uploads/pro ects/EN010125/EN010 25-000181-DBS%20- %20Environmental%20 mpact%20Assessment %20Scoping%20Repor pdf	d j details published in the publi i domain	c Offshore Wind Farm	In Planning																		281.9	288.4	с	d	d	d	đ	d	f	r
Dogger Bank West Met Mast	4C Offshore	High - Third party project details published in the publi domain	c Offshore Wind Farm	Inactive/Decommiss oned	si																	319.5	325.9	а	d	d	f	d	d	f	f
Dudgeon	https://opendata- thecrownestate.opendate arcgis.com/datasets/22a1 be6fb0c5416e9369f97743 387b1	High - Third party project details published in the publi domain and confirmed as being 'accurate' by The Crow Estate	Offshore Wind Farm	Active/In Operation																		143.3	145.5	a	d	d	a	d	d	f	f
Dudgeon Extension	https://infrastructure.pla ninginspectorate.gov.uk/ P_ content/ipc/uploads/proj cts/EN010109/EN010109 001749- 6_1.4%20Chapter%204%2 Project%20Description%2 (Revision%20C)%20(Clean off	e High - Third party project details published in the publi domain	c Offshore Wind Farm	In Planning																		136.3	139.1	c	d	c	d	d	d	f	f
Dunkerque	4C Offshore	High - Third party project details published in the publi domain	c Offshore Wind Farm	In Planning																		64.2	71.4	c	d	d	d	d	d	f	f
East Anglia ONE	https://opendata- thecrownestate.opendata arcgis.com/datasets/22a1 be6fb0c5416e9369f9774: 387b1	High - Third party project details published in the publi domain and confirmed as	Offshore Wind Farm	Active/In Operation																		22.7	29.4	a	d	d	a	c	d	f	f
East Anglia ONE NORTH	https://opendata- thecrownestate.opendata arcgis.com/datasets/22a1 be6fb0c5416e9369f97743 387b1	High - Third party project details published in the publi domain and confirmed as being 'accurate' by The Crow Estate	Offshore Wind Farm	In Planning																		36.0	41.3	c	d	c	c	c	d	f	f



Table 4: Offshore Renew	able Energy								onstructi	on Perio	d (red ou	Itline den	otes Five	a Estuario	e offsho	re constr	uction pe	ariod)				7		
Project	Data Source(s)	Data Confidence Assessment	Notes	Status of Development	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035 - 2045	2046 - 2056	2057 - 2067	Distance from the VE array area (km)	Distance from the VE Offshore Export Cable Corridor (km)	Marine Mammal Ecology
East Anglia TWO	https://opendata- thecrownestate.opendata. arcgis.com/datasets/22a1 be6fb0c5416e9369f97743f 387b1	High - Third party project details published in the public domain and confirmed as being 'accurate' by The Crown Estate	Offshore Wind Farm	Under Construction																		5.3	11.6	a
East Anglia THREE	https://opendata- thecrownestate.opendata. arcgis.com/datasets/22a1 be6fb0c5416e9369f97743f 387b1	High - Third party project details published in the public domain and confirmed as being 'accurate' by The Crown Estate	Offshore Wind Farm	Under Construction																		68.6	75.3	a
Eastern Scheldt	https://www.ocean- energy- systems.org/ocean- energy/gis-map-tool/	High - Third party project details published in the public domain	Tidal Energy	Active/In Operation																		104.3	108.2	a
EnBW He dreiht	4C Offshore	High - Third party project details published in the public domain	Offshore Wind Farm	Under Construction																		366.5	373.9	с
EnBW Hohe See	4C Offshore	High - Third party project details published in the public domain	Offshore Wind Farm	Active/In Operation																		382.3	389.6	а
European Offshore Wind Deployment Centre (Aberdeen Bay)	4C Offshore	High - Third party project details published in the public domain	Offshore Wind Farm	Active/In Operation																		638.2	631.1	a
FaBTest WaveSub	https://www.renewableu k.com/page/UKMED2	High - Third party project details published in the public domain	Tidal Energy	Inactive/Decommissi oned																		527.67	475.07	а
FabTest, Falmouth Bay		High - Third party project details published in the public domain and confirmed as being 'accurate' by The Crown Estate	Tidal Energy	Active/In Operation																		526.74	474.19	a
Fanø Bugt	https://www.4coffshore.c om/windfarms/Denmark/ fan%C3%B8-bugt screened-area-for-future- offshore-wind-project- denmark-dk0g.html	High - Third party project	Offshore Wind Farm	Cancelled																		515.5	523	e
Fecamp	https://www.enbridge.co m/projects-and- infrastructure/projects/fec amp-offshore-wind-project	High - Third party project details published in the public domain and confirmed as being 'accurate' by The Crown Estate	Offshore Wind Farm	Under Construction																		232.6	213.6	a
Firth of Forth - Alpha and Bravo	4C Offshore	High - Third party project details published in the public domain	Offshore Wind Farm	Under Construction																		557.2	550.1	a
Flan Sea	Press release	High - Third party project details published in the public domain	Wave Energy - Sea Testing	Completed																		78.85	83.85	e
Flora Floating	4C Offshore	High - Third party project details published in the public domain	Offshore Wind Farm	Construction Information Unknowr	1																	646.1	647.9	c
ForthWind Offshore Wind Demonstration Project - phase 1	4C Offshore	High - Third party project details published in the public domain	Offshore Wind Farm	Under Construction																		572.1	557.5	c
Galloper	https://opendata- thecrownestate.opendata. arcgis.com/datasets/22a1 be6fb0c5416e9369f97743f 387b1	High - Third party project details published in the public domain and confirmed as being 'accurate' by The Crown Estate	Offshore Wind Farm	Active/In Operation																		0.0	0.0	a
Gebied 1 Noord (1-n)	4C Offshore	High - Third party project details published in the public domain	Offshore Wind Farm	Construction Information Unknowr	n																	153.5	159.8	c
Gebied 1 Zuid (1-z)	4C Offshore	High - Third party project details published in the public domain	Offshore Wind Farm	Construction Information Unknowr	n																	119.4	125.9	c
Gebied 2 Noord (2-n)	4C Offshore	High - Third party project details published in the public domain	Offshore Wind Farm	Construction Information Unknowr	n																	165.3	172.0	c
Gebied 2 Zuid (2-z)	4C Offshore	High - Third party project details published in the public domain	Offshore Wind Farm	Construction Information Unknowr	n																	157.9	165.2	c
Gebied 5 Oost (5-o)	4C Offshore	High - Third party project details published in the public domain	Offshore Wind Farm	Construction Information Unknown	n																	318.7	325.8	c
GlobalTech I	4C Offshore	High - Third party project details published in the public domain	Offshore Wind Farm	Active/In Operation																		388.2	395.5	a
Gode Wind 01	4C Offshore	domain High - Third party project details published in the public domain	Offshore Wind Farm	Active/In Operation																		384.0	391.8	a
Gode Wind 02	4C Offshore	High - Third party project details published in the public domain	Offshore Wind Farm	Active/In Operation																		389.6	397.3	a
Gode Wind 3	4C Offshore	High - Third party project details published in the public domain	Offshore Wind Farm	Active/In Operation																		391.8	399.6	c
Greater Gabbard	https://opendata- thecrownestate.opendata. arcgis.com/datasets/22a1 be6fb0c5416e9369f97743f 387b1	High - Third party project details published in the public	Offshore Wind Farm	Active/In Operation																		3.3	0.6	a

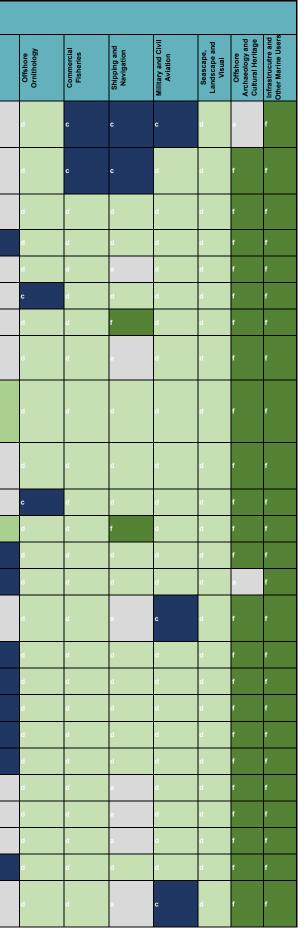




Table 4: Offshore Ren	ewable Energy							C	onstructi	on Perio	d (red out	line den	otes Five	Estuarie	s offshor	e constru	iction peri	iod)				]									
Project	Data Source(s)	Data Confidence Assessment	Notes	Status of Development	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035 - 2045	2046 - 2056	2057 - 2067	Distance from the Vi array area (km)	E Distance from the VI Offshore Export Cable Corridor (km)	Marine Mammal Ecology	Offshore Ornithology	Commercial Fisheries	Shipping and Navigation	Military and Civil Aviation	Seascape, Landscape and Visual	Offshore Archaeology and	Cultural network
Green Volt	https://greenvoltoffshore wind.com/	High - Third party project details published in the publi domain and confirmed as being 'accurate' by The Crow Estate	Offshore Wind Farm	In Planning																		672.65	672.81	c	d	d	d	d	d	f	f
Gunfleet Sands Demo	https://opendata- thecrownestate.opendata arcgis.com/datasets/22a1 be6fb0c5416e9369f97743 387b1	High - Third party project details published in the publi domain and confirmed as <u>f</u> being 'accurate' by The Crow Estate	Offshore Wind Farm	Active/In Operation																		58.1	10.2	a	d	d	a	c	d	f	f
Gunfleet Sands I	https://opendata- thecrownestate.opendata arcgis.com/datasets/22a1 be6fb0c5416e9369f97743 387b1	High - Third party project details published in the publi domain and confirmed as <u>f</u> being 'accurate' by The Crow Estate	Offshore Wind Farm	Active/In Operation																		54.5	6.0	a	d	d	a	c	d	f	f
Gunfleet Sands II	https://opendata- thecrownestate.opendata arcgis.com/datasets/22a1 be6fb0c5416e9369f97743 387b1	High - Third party project details published in the publi domain and confirmed as <u>f</u> being 'accurate' by The Crow Estate	Offshore Wind Farm	Active/In Operation																		51.9	6.5	a	d	d	a	c	d	f	f
Harbour Energy North	4C Offshore	High - Third party project details published in the publi domain	c Offshore Wind Farm	Construction Information Unknow	vn																	654.9	661.4	с	d	d	d	d	d	f	f
Harbour Energy South	4C Offshore	High - Third party project details published in the publi domain	c Offshore Wind Farm	Construction Information Unknow	vn																	516.5	522.8	с	d	d	d	d	d	с	f
HKN Kavel V	4C Offshore	High - Third party project details published in the publi domain	c Offshore Wind Farm	Active/In Operation																		145.9	153.8	а	d	c	d	d	d	f	f
HKZ Kavel I	4C Offshore	High - Third party project details published in the publi	c Offshore Wind Farm	Active/In Operation																		119.1	127.0	а	d	с	d	d	d	f	f
HKZ Kavel II	4C Offshore	domain High - Third party project details published in the publi domain	c Offshore Wind Farm	Active/In Operation																		116.8	124.6	a	d	c	d	d	d	f	f
HKZ Kavel III	4C Offshore	High - Third party project details published in the publi domain	c Offshore Wind Farm	Active/In Operation																		116.5	124.3	а	d	d	d	d	d	f	f
HKZ Kavel IV	4C Offshore	High - Third party project details published in the publi	c Offshore Wind Farm	Active/In Operation																		125.4	133.2	а	d	с	d	d	d	f	f
Hollandse Kust Noord - HKW-N	4C Offshore	domain High - Third party project details published in the publi	c Offshore Wind Farm	Active/In Operation																		144.0	151.9	а	d	c	с	d	d	f	f
Hollandse Kust West VII	4C Offshore	domain High - Third party project details published in the publi	c Offshore Wind Farm	Under Construction	1																	89.2	97.1	с	d	c	c	d	d	f	f
Hollandse Kust West VIII	4C Offshore	domain High - Third party project details published in the publi	c Offshore Wind Farm	Construction Information Unknow	vn																	89.2	97.1	e	d	d	d	d	d	f	f
Hollandse Kust Zuid Holland I & II	4C Offshore	domain High - Third party project details published in the publi	c Offshore Wind Farm	Active/In Operation																		116.8	124.6	а	d	c	d	d	d	f	f
Hollandse Kust Zuid Holland III & IV	4C Offshore	domain High - Third party project details published in the publi	c Offshore Wind Farm	Active/In Operation																		125.4	133.2	a	d	d	d	d	d	f	f
Horns Rev I	https://powerplants.vatte	domain High - Third party project details published in the publi	c Offshore Wind Farm	Active/In Operation																		532.0	539.2	с	d	d	d	d	d	f	f
Horns Rev II	4C Offshore	domain High - Third party project details published in the publi		Active/In Operation																		527.6	534.7	c	d	d	d	d	d	f	f
Horns Rev III	https://powerplants.vatte	domain High - Third party project		Active/In Operation																		539.5	546.5	c	d	d	d	d	d	f	f
Hornsea Project One (HOW01)	nfall.com/horns-rev-3/ https://opendata- thecrownestate.opendata arcgis.com/datasets/22a1 be6fb0c5416e9369f97743	domain High - Third party project details published in the publi domain and confirmed as <u>f</u> being 'accurate' by The Crow	c Offshore Wind Farm	Active/In Operation																		202.5	208.8	a	d	d		d	d	f	f
Hornsea Project Two (HOW02)	387b1 https://opendata- thecrownestate.opendata arcgis.com/datasets/22a1 be6fb0c5416e9369f97743	Estate High - Third party project _ details published in the publi domain and confirmed as f being 'accurate' by The Crow Estate	Offshore Wind Farm	Active/In Operation																		206.9	213.6	a	d	d	a	d	d	f	f
Hornsea Project Three (HOW03)	387b1 https://opendata- thecrownestate.opendata arcgis.com/datasets/22a1 be6fb0c5416e9369f97743 387b1	High - Third party project details published in the publi domain and confirmed as being 'accurate' by The Crow Estate	Offshore Wind Farm	In Planning																		192.7	198.3	c	d	c	d	d	d	f	f
Hornsea Project Four (HOW04)	https://opendata- thecrownestate.opendata arcgis.com/datasets/22a1 be6fb0c5416e9369f97743 387b1	High - Third party project details published in the publi domain and confirmed as	Offshore Wind Farm	In Planning																		209.6	215.1	с	d	d	d	d	d	f	f
Humber Gateway	https://opendata- thecrownestate.opendata arcgis.com/datasets/22a1 be6fb0c5416e9369f97743 387b1	High - Third party project details published in the publi domain and confirmed as <u>f</u> being 'accurate' by The Crow Estate	Offshore Wind Farm	Active/In Operation																		217.7	205.7	a	d	d	a	d	d	f	f
Hywind	4C Offshore	High - Third party project details published in the publi domain	c Offshore Wind Farm	Active/In Operation																		648.9	645.5	а	c	d	d	d	d	f	f



Table 4: Offshore Renew	able Energy							Const	truction D	aniad (na	d outling	 e Five F	- turning	offshore o		tion novie	47			-									
Project	Data Source(s)	Data Confidence Assessment	Notes	Status of Development	2021 2022	2023	2023	2025	2026	2027	2028	S FIVE L	0800	2031	2015014C	2033 2034	2035 - 2045	2046 - 2056	2057 - 2067	Distance from the v array area (km)		Marine Mammal Ecology	Offshore Ornithology	Commercial Fisheries	Shipping and Navigation	Military and Civil Aviation	Seascape, Landscape and Visual	Offshore Archaeology and Cuttural Heritage Infrastrucutre and	Other Marine Users
IJmuiden Ver	4C Offshore	High - Third party project details published in the publ domain	ic Offshore Wind Farm	In Planning																94.4	101.6	с	d	c	d	d	d	f f	
IJmuiden Ver 2021 - Y-VER	https://www.offshorewint .biz/2022/12/08/netherlar ds-plans-its-biggest- offshore-wind-tender-nex year-with-four-ijmuiden- ver-sites-likely-to-be- auctioned-off-in-one-go/	d n High - Third party project t-details published in the publ domain	ic Offshore Wind Farm	In Planning																113.4	120.4	c	d	d	d	d	d	f f	
IJmuiden Ver Noord (IJ-Vern-n)	IJmuiden Ver Wind Farm Zone - Noordzeeloket UK	High - Third party project details published in the publ domain	ic Offshore Wind Farm	In Planning																146.94584	1 154.138415	с	d	d	d	d	d	f f	
Inch Cape	4C Offshore	High - Third party project details published in the publ domain	ic Offshore Wind Farm	Under Construction																565.3	555.4	а	с	d	d	d	d	f f	
Inner Dowsing	https://opendata- thecrownestate.opendata arcgis.com/datasets/22a1 be6fb0c5416e9369f97743 387b1	High - Third party project details published in the publ domain and confirmed as being 'accurate' by The Crow Estate	Offshore Wind Farm	Active/In Operation																172.1	156.9	a	d	d	a	d	d	f f	
Jyske Banke	https://www.4coffshore.c om/windfarms/denmark/j yske-bankescreened- area-for-future-offshore- wind-project-denmark- dk0k.html	High - Third party project details published in the publ domain	ic Offshore Wind Farm	Cancelled																609.2	615.1	e	d	d	d	d	d	f f	
Kaskasi II	4C Offshore	High - Third party project details published in the publ domain	ic Offshore Wind Farm	Active/In Operation																452.5	460.2	а	d	d	d	d	d	f f	
Kentish Flats	https://opendata- thecrownestate.opendata arcgis.com/datasets/22a1 be6fb0c5416e9369f97743 387b1	High - Third party project details published in the publ domain and confirmed as being 'accurate' by The Crow Estate	Offshore Wind Farm	Active/In Operation																71.3	37.5	a	d	d	a	с	d	f f	
Kentish Flats Extension	https://opendata- thecrownestate.opendata arcgis.com/datasets/22a1 be6fb0c5416e9369f97743 <u>387b1</u>	High - Third party project details published in the published in the published in the published in the published as domain and confirmed as being 'accurate' by The Crow Estate	Offshore Wind Farm	Active/In Operation																71.1	38.9	a	d	d	a	c	d	f f	
Kincardine	4C Offshore	High - Third party project details published in the publ domain	ic Offshore Wind Farm	Active/In Operation																610.8	604.1	а	с	d	d	d	d	f f	
La Rance Tidal Barrage/Usine maremotrice de la Rance	https://www.ocean- energy- systems.org/ocean- energy/gis-map-tool/; http://mhk.pnl.gov/map- viewer?ft[0]=type%3Aan nex_iv_site&ft[1]=field_c ountry%3A309	domain	ic Tidal Energy	Active/In Operation																453.6	423	a	d	d	a	d	d	f f	
Levenmouth demonstration turbine	4C Offshore	High - Third party project details published in the publ domain	ic Offshore Wind Farm	Active/In Operation																		а	d	d	d	d	d	f f	
Lincs	a.arcgis.com/datasets/2 2a1be6fb0c5416e9369f 7743f387b1	High - Third party project t details published in the publ domain and confirmed as being 'accurate' by The Crow Estate	Offshore Wind Farm	Active/In Operation																167.3	151.8	a	d	d	a	d	d	f f	
London Array	a.arcgis.com/datasets/2	High - Third party project t details published in the publi domain and confirmed as 9 being 'accurate' by The Crow Estate High - Third party project	Offshore Wind Farm	Active/In Operation																35.3	14.0	a	d	d	a	c	d	f f	
Lynn	thecrownestate.opendat a.arcgis.com/datasets/2	t details published in the publ domain and confirmed as being 'accurate' by The Crow Estate	Offshore Wind Farm	Active/In Operation																168.0	152.2	a	d	d	a	d	d	f f	
Marram	<u>https://marramwind.co.ul</u> L	being 'accurate' by The Crov Estate	Offshore Wind Farm	In Planning																689.29	690.94	c	d	đ	d	d	d	f f	
Meerwind Sued/Ost	4C Offshore	High - Third party project details published in the publ domain	ic Offshore Wind Farm	Active/In Operation																444.1	451.8	а	d	d	а	d	d	f f	
Merkur Offshore (MEG Offshore I)	4C Offshore	High - Third party project details published in the publ domain	ic Offshore Wind Farm	Active/In Operation																361.7	369.3	a	d	d	а	d	d	f f	
Mermaid	https://www.ocean- energy- systems.org/ocean- energy/gis-map-tool/	High - Third party project details published in the publ domain and confirmed as being 'accurate' by The Crow Estate	Hybrid Wave/Wind Energy	In Planning																37.6	38.8	e	d	с	d	d	d	f f	
Methil Demo	4C Offshore	High - Third party project details published in the publ domain	ic Offshore Wind Farm	Active/In Operation																574	559	а	c	d	d	d	d	f f	
Moray East	4C Offshore	High - Third party project details published in the publ domain	ic Offshore Wind Farm	Active/In Operation																746.2	740.4	а	d	d	d	d	d	f f	
Moray West	4C Offshore	High - Third party project details published in the publ domain	ic Offshore Wind Farm	Under Construction																748.4	741.3	с	c	d	d	d	d	f f	



Table 4: Offshore Renewa	ble Energy								Constructi	ion Perio	od (red o	utline dei	notes Five	e Estuario	es offsho	re constr	ruction pe	eriod)				1									
Project	Data Source(s)	Data Confidence Assessment	Notes	Status of Development	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035 - 2045	2046 - 2056	2057 - 2067	Distance from the V array area (km)	E Distance from the V Offshore Export Cable Corridor (km)	Marine Mammal Ecology	Offshore Ornithology	Commercial Fisheries	Shipping and Navigation	Military and Civil Aviation	Seascape, Landscape and	VISUAI Offshore Archaeology and	Other Marine Users
Morven		s High - Third party project	Offshore Wind Farm	In Planning																		527.85	524.72	c	d	d	d	d	d	f	f



Table 4: Offshore Rer	newable Energy	1							200000000000000000000000000000000000000	ion Dorio	d (nod ou	tiline des	notos Ek	ve Estuaries	a offals and			ied)				1									
Project	Data Source(s)	Data Confidence Assessment	Notes	Status of Development	2021	2022	2023	2024	501511021	5026	5024	2028	6705 5020		2031	2032	2033 2033	134	2035 - 2045	2046 - 2056	2057 - 2067	Distance from the V array area (km)		m Marine Mammal Ecology	Offshore Ornithology	Commercial Fisheries	Shipping and Navigation	Military and Civil Aviation	Seascape, Landscape and Visual	Offshore Archaeology and Cuttural Heritage	Infrastrucutre and Other Marine Users
Muir Mhòr	https://muirmhor.co.uk, bout/	High - Third party project details published in the public domain	Offshore Wind Farm	In Planning																		618.2	618.69	е	d	d	d	d	d	f	f
N-3.7	4C Offshore	High - Third party project details published in the public domain	Offshore Wind Farm	In Planning																		391.0	398.7	с	d	d	d	d	d	f	f
N-6.6	4C Offshore	High - Third party project details published in the public domain	Offshore Wind Farm	In Planning																		347.6	354.9	с	d	d	d	d	d	f	f
N-6.7	4C Offshore	High - Third party project details published in the public domain	Offshore Wind Farm	In Planning																		346.5	353.7	с	d	d	d	d	d	f	f
N-9.1	4C Offshore	High - Third party project details published in the public domain	Offshore Wind Farm	In Planning																		345.8	352.9	c	d	d	d	d	d	f	f
N-9.2	4C Offshore	High - Third party project details published in the public domain	Offshore Wind Farm	In Planning																		366.8	373.9	c	d	d	d	d	d	с	f
N-9.3	4C Offshore	High - Third party project details published in the public domain	Offshore Wind Farm	In Planning																		345.3	352.3	c	d	d	d	d	d	f	f
N-9.4	4C Offshore	High - Third party project details published in the public domain	Offshore Wind Farm	Construction Information Unknow	vn																	361.2	368.2	e	d	d	d	d	d	f	f
N-10.1	4C Offshore	High - Third party project details published in the public domain	Offshore Wind Farm	In Planning																		383.3	390.5	c	d	d	d	d	d	f	f
N-10.2	4C Offshore	High - Third party project details published in the public domain	Offshore Wind Farm	In Planning																		384.22	391.32	c	d	d	d	d	d	f	f
Neart na Gaoithe	4C Offshore	High - Third party project details published in the public domain	Offshore Wind Farm	Under Construction																		546.3	535.4	a	d	d	d	d	d	f	f
Nissum Bredning Vind	4C Offshore	High - Third party project details published in the public domain	Offshore Wind Farm	Active/In Operation																		649.2	656	a	d	d	d	d	d	f	f
Nordergründe	4C Offshore	High - Third party project details published in the public domain	Offshore Wind Farm	Active/In Operation																		445.0	452.8	a	d	d	a	d	d	f	f
Nordlicht I	4C Offshore	High - Third party project details published in the public domain	Offshore Wind Farm	In Planning																		360.8	368.2	c	d	d	d	d	d	f	f
Nordsee Cluster A - N-3.8	4C Offshore	High - Third party project details published in the public domain	Offshore Wind Farm	In Planning																		384.0	391.7	c	d	d	d	d	d	f	f
Nordsee Cluster B - N-3.5	4C Offshore	High - Third party project details published in the public domain	Offshore Wind Farm	In Planning																		377.7	385.4	c	d	d	d	d	d	f	f
Nordsee Cluster B - N-3.6	4C Offshore	High - Third party project details published in the public domain	Offshore Wind Farm	In Planning																		374.1	381.8	c	d	d	d	d	d	f	f
Nordsee One	4C Offshore	High - Third party project details published in the public domain	Offshore Wind Farm	Active/In Operation																		371.6	379.3	а	d	d	a	d	d	f	f
Nordsee Ost	4C Offshore	High - Third party project details published in the public domain	Offshore Wind Farm	Active/In Operation																		447.4	455.1	а	d	d	a	d	d	f	f
Nordsren I	4C Offshore	High - Third party project details published in the public domain	Offshore Wind Farm	Construction Information Unknow	vn																	518.9	525.6	а	d	d	d	d	d	f	f
Nordsren II	4C Offshore	High - Third party project details published in the public domain	Offshore Wind Farm	Construction Information Unknow	vn																	504.9	511.5	a	d	d	d	d	d	f	f
Nordsren II vest	4C Offshore	High - Third party project details published in the public domain	Offshore Wind Farm	Construction Information Unknow	vn																	470.7	477.1	c	d	d	d	d	d	f	f
Nordsren III	4C Offshore	High - Third party project details published in the public domain	Offshore Wind Farm	Construction Information Unknow	vn																	531.7	538.0	а	d	d	d	d	d	f	f
Nordsren III vest	4C Offshore	High - Third party project details published in the public domain	Offshore Wind Farm	Construction Information Unknow	vn																	456.8	463.2	с	d	d	d	d	d	f	f
Norfolk Boreas	a.arcgis.com/datasets/ 2a1be6fb0c5416e9369 7743f387b1	High - Third party project at details published in the public /2 domain and confirmed as 9f9 being 'accurate' by The Crown Estate	Offshore Wind Farm	In Planning																		104.6	110.0	c	d	с	d	d	d	f	f
Norfolk Vanguard East	a.arcgis.com/datasets/ 2a1be6fb0c5416e9369 7743f387b1	9f9 being 'accurate' by The Crown Estate	Offshore Wind Farm	Under Construction																		92.2	97.9	c	d	c	с	d	d	f	f
Norfolk Vanguard West	a.arcgis.com/datasets/ 2a1be6fb0c5416e9369 7743f387b1	High - Third party project details published in the public domain and confirmed as 969 being 'accurate' by The Crown Estate	Offshore Wind Farm	Under Construction																		91.1	96.8	c	d	c	c	d	d	f	f
North Falls	https://opendata- thecrownestate.opend a.arcgis.com/datasets/ 2a1be6fb0c5416e9369 7743f387b1	2 domain and confirmed as	Offshore Wind Farm	In Planning																		0.0	0.0	c	d	c	с	c	d	f	f
Norther	4C Offshore	High - Third party project details published in the public domain	Offshore Wind Farm	Active/In Operation																		60.9	64.2	а	d	d	a	d	d	f	f



Table 4: Offshore Renew	vable Energy				$\vdash$			C	onstruct	tion Period	(red outli	ine denot	tes Five E	stuaries	offshore	constru	ction period)				7									
Project	Data Source(s)	Data Confidence Assessment	Notes	Status of Development	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2035 - 2045	2046 - 2056	2057 - 2067	Distance from the VE array area (km)	Distance from the VI Offshore Export Cable Corridor (km)	m Marine Mammal Ecology	Offshore Ornithology	Commercial Fisheries	Shipping and Navigation	Military and Civil Aviation	Seascape, Landscape and Visual	Offshore Archaeology and Cultural Heritage	Infrastrucutre and Other Marine Users
Northwester 2	4C Offshore	High - Third party project details published in the publ domain	lic Offshore Wind Farm	Active/In Operation																	39.2	41.2	a	d	d	a	d	d	f	f
Northwind	4C Offshore	High - Third party project details published in the publ domain	lic Offshore Wind Farm	Active/In Operation																	51.5	54.2	а	d	d	a	d	d	f	f
NSW Offshore windpark Egmond aan Zee	4C Offshore	High - Third party project details published in the publ domain	lic Offshore Wind Farm	Active/In Operation																	158.1	166.0	а	d	d	a	d	d	f	f
Ossian	4C Offshore	High - Third party project details published in the publ domain and confirmed as being 'accurate' by The Crow Estate	Offshore Wind Farm	Construction Information Unknow	/n																525.8	525.3	e	d	d	d	d	d	f	f
Outer Dowsing	4C Offshore	High - Third party project details published in the publ domain	lic Offshore Wind Farm	In Planning																	175.5	176.1	с	d	d	d	d	d	f	f
Paimpol Brehat Tidal Farm	https://www.ocean- energy- systems.org/ocean- energy/gis-map-tool/	High - Third party project details published in the publ domain	lic Tidal Energy	Active/In Operation																	480.78	442.62	a	d	d	f	d	d	f	f
Parc eolien pose au large de la Normadie (AO4)	4C Offshore	High - Third party project details published in the publ domain	lic Offshore Wind Farm	In Planning																	269.8	238.9	с	d	d	d	d	d	f	f
Pentland Floating Offshore Wind Demonstrator	4C Offshore	High - Third party project details published in the publ domain	lic Offshore Wind Farm	In Planning																	830.8	822.6	с	d	d	d	d	d	f	f
Perpetuus Tidal Energy Centre (PTEC)	4C Offshore	High - Third party project details published in the publ domain	lic Tidal Energy	Under Construction																	265.2	221.6	с	d	d	d	d	d	f	f
Portland Bill	https://www.renewable k.com/page/UKMED2; https://opendata- thecrownestate.openda a.arcgis.com/	<ul> <li>High - Third party project details published in the publ domain and confirmed as</li> <li>t being 'accurate' by The Crow Estate</li> </ul>	Tidal Energy	Active/In Operation																	344.4	294.7	a	d	d	d	d	d	f	f
Prinses Amalia Windparken	4C Offshore	High - Third party project details published in the publ domain	lic Offshore Wind Farm	Active/In Operation																	145.0	152.9	a	d	d	а	d	d	f	f
Proteus 1:10 Scale Prototype	http://en.openei.org/wik MHK_Technologies/Ne tune_Proteus_NP1000; http://www.ocean- energy- systems.org/ocean- energy-in-the-world/gis mao/	i/ P High - Third party project details published in the publ domain and confirmed as being 'accurate' by The Cro Estate	Offshore Wind Farm	Completed																	254.4	237.8	e	d	d	f	d	ci	f	f
Pulse Stream 100 Demonstration Project	Full scale demonstration prototype tidal stream generator   PULSE STREAM 1200   Project   Fact sheet   FP7   CORDI!   European Commission [europa.eu]	High - Third party project details published in the public for the public	lic Tidal Energy	Completed																	239	222.9	e	d	d	f	d	d	f	f
Race Bank	a.arcgis.com/datasets/2	High - Third party project t details published in the publ domain and confirmed as 9 being 'accurate' by The Croo Estate	Offshore Wind Farm	Active/In Operation																	159.6	151.9	a	d	d	a	d	d	f	f
Rampion	https://opendata- thecrownestate.openda a.arcgis.com/datasets/2 2a1be6fb0c5416e9369/ 7743f387b1	High - Third party project t details published in the publ domain and confirmed as 9 being 'accurate' by The Crow Estate	Offshore Wind Farm	Active/In Operation																	195.3	157.2	a	d	d	a	d	d	f	f
Rampion 2 (Rampion Extension)	Rampion 2 ES Volume 2 Chapter 4 The Proposed Development (planninginspectorate.go uk)	details published in the publ	lic Offshore Wind Farm	In Planning																	205.8	166.0	c	d	d	d	d	d	f	f
Raz Blanchard / Alderney Race	https://www.ocean- energy- systems.org/ocean- energy/gis-map-tool/	High - Third party project details published in the publ domain and confirmed as being 'accurate' by The Crow Estate	Tidal Energy	Active/In Operation																	367.96	327.6	a	d	d	d	d	d	f	f
Rentel	4C Offshore	High - Third party project details published in the publ domain	lic Offshore Wind Farm	Active/In Operation																	53.8	56.5	a	d	d	a	d	d	f	f
Riffgat	4C Offshore	High - Third party project details published in the publ domain	lic Offshore Wind Farm	Active/In Operation																	337.6	345.3	а	d	d	a	d	d	f	f
Saint-Brieuc	4C Offshore	High - Third party project details published in the publ domain	lic Offshore Wind Farm	Active/In Operation																	451.0	415.3	а	d	d	d	d	d	f	f
Salamander	https://simplybluegroup. om/news/peterhead- community-invited-to- salamander-floating- offshore-windfarm-event		lic Offshore Wind Farm	In Planning																	657.3	654.9	c	d	d	d	d	d	f	f
Sandbank	4C Offshore	High - Third party project details published in the publ domain	lic Offshore Wind Farm	Active/In Operation																	468.3	475.3	a	d	d	a	d	d	f	f



Table 4: Offshore Rene	wable Energy								onstruct	ion Perid	od (red o	utline de	notes Five	Estuario	s offshor	e constru	uction	neriod)					1		
Project	Data Source(s)	Data Confidence Assessment	Notes	Status of Development	2021	2022	2023	2024	2025	2026	2027	2028	2029	5030	2031	2032	2033	2034	= 100 1000	2035 - 2045	2046 - 2056	2057 - 2067	Distance from the VE array area (km)	Distance from the VE Offshore Export Cable Corridor (km)	Marine Mammal Ecology
Scroby Sands	arcgis.com/datasets/22a1	High - Third party project details published in the public domain and confirmed as being 'accurate' by The Crown Estate	Offshore Wind Farm	Active/In Operation																			73.7	80.5	с
Seagreen (Bravo)	History   SeagreenWindEnergy	High - Third party project details published in the public domain	Offshore Wind Farm	Active/In Operation																			507.8	499.7	c
Seagreen 1 A (Alpha)	4C Offshore	High - Third party project details published in the public domain	Offshore Wind Farm	Active/In Operation																			557.1	550.4	c
Seastar	4C Offshore	High - Third party project details published in the public domain	Offshore Wind Farm	Active/In Operation																			48.1	50.8	с
SENSEWind Pelastar	4C Offshore	High - Third party project details published in the public domain	Offshore Wind Farm	Construction Information Unknowr																			610.8	604.1	c
Sheringham Shoal	4C Offshore	High - Third party project details published in the public domain	Offshore Wind Farm	Active/In Operation																			137.2	134.1	a
Sheringham Shoal Extension		High - Third party project details published in the public domain	Offshore Wind Farm	Construction Information Unknowr																			134.8	132.5	c
Sofia	https://sofiawindfarm.co m/offshore-construction/	High - Third party project details published in the public domain	Offshore Wind Farm	Under Construction																			315.8	322.1	c
Stoura Floating	4C Offshore	High - Third party project details published in the public domain	Offshore Wind Farm	Construction Information Unknowr																			946.3	952.4	c
Stromar	4C Offshore	High - Third party project details published in the public domain	Offshore Wind Farm	Construction Information Unknowr																			760	756.6	c
Teesside	4C Offshore	High - Third party project details published in the public domain	Offshore Wind Farm	Active/In Operation																			362.6	348.5	a
Ten Noorden van de Wadden	4C Offshore	High - Third party project details published in the public domain	Offshore Wind Farm	In Planning																			299.6	306.8	e
Thames at Chiswick		High - Third party project details published in the public domain	Tidal Energy	Completed																			161.74	107.04	e
Thanet	a.arcgis.com/datasets/2 2a1be6fb0c5416e9369f9 7743f387b1	High - Third party project details published in the public domain and confirmed as being 'accurate' by The Crowr Estate	Offshore Wind Farm	Active/In Operation																			42.9	36.2	a
Thor TidalKite Power Plant	https://thor.rwe.com/Ho me/project- information#project- timeline	High - Third party project details published in the public domain		In Planning																			577	584	c
Trianel Windpark Borkum I		N/A High - Third party project details published in the public domain	Tidal Energy Offshore Wind Farm	Completed Active/In Operation																			345.2 358.3	353.07 365.9	a
Trianel Windpark Borkum II	4C Offshore	High - Third party project details published in the public domain	Offshore Wind Farm	Active/In Operation																			356.9	364.5	a
Triton Knoll	4C Offshore	High - Third party project details published in the public domain	Offshore Wind Farm	Active/In Operation																			174.9	170.8	a
Veja Mate	4C Offshore	High - Third party project details published in the public domain	Offshore Wind Farm	Active/In Operation																			348.2	355.5	a
Vesterhav Nord/Syd	https://www.power- technology.com/projects/ vesterhav-nord-and-syd- offshore-wind-project- north-sea-denmark/	High - Third party project details published in the public domain	Offshore Wind Farm	Under Construction																			628.87	635.66	a
West of Orkney	https://www.westoforkne y.com/application/files/15 16/9504/5907/West of Q rkney Windfarm Offshore EIA Report - Chapter 5- Project Description.pdf	High - Third party project details published in the public domain	Offshore Wind Farm	In Planning																			855.04	846.34	c
Westermost Rough	a.arcgis.com/datasets/2 2a1be6fb0c5416e9369f9 7743f387b1	High - Third party project details published in the public domain and confirmed as being 'accurate' by The Crowr Estate	Offshore Wind Farm	Active/In Operation																			238.2	226.5	a
Windenergiegebied Borssele noordzijde	https://www.noordzeelok et.nl/en/functions-and- use/offshore-wind- energy/free-passage- shared-use/borssele- wind-farm-zone/	High - Third party project details published in the public domain and confirmed as being 'accurate' by The Crowr Estate	Offshore Wind Farm	Construction Information Unknowr																			45.2	47.9	c

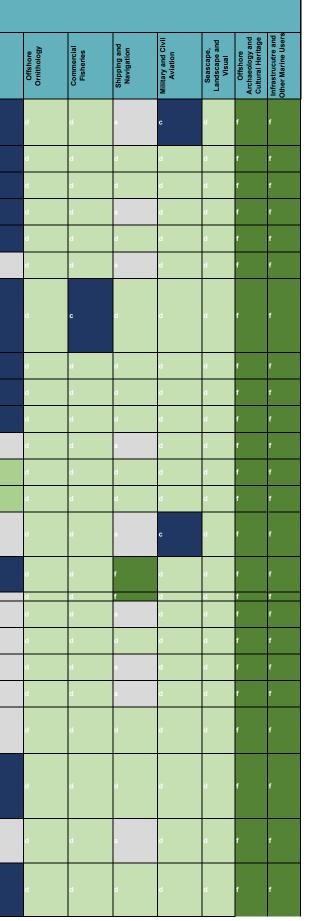




Table 4: Offshore Rene	wable Energy							Co	nstructior	n Period	(red out	line deno	tes Five	Estuaries	offshore	constru	iction per	riod)				1									
Project	Data Source(s)	Data Confidence Assessment	Notes	Status of Development	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035 - 2045	2046 - 2056	2057 - 2067	Distance from the \ array area (km)	Distance from the V Offshore Export Cable Corridor (km)		Offshore Ornithology	Commercial Fisheries	Shipping and Navigation	Military and Civil Aviation	Seascape, Landscape and Visual	Offshore Archaeology and Cultural Heritage	Infrastrucutre and Other Marine Users
Windenergiegebied Borssele zuidzijde	https://www.noordzeelc et.nl/en/functions-and- use/offshore-wind- energy/free-passage- shared-use/borssele- wind-farm-zone/	<sup>k</sup> High - Third party project details published in the publi- domain and confirmed as being 'accurate' by The Crow Estate	Offshore Wind Farm	Construction Information Unknow	n																	40.35	42.18	с	d	d	d	d	d	f	f
WP Q10 / Eneco Luchterduinen	4C Offshore	High - Third party project details published in the public domain	c Offshore Wind Farm	Active/In Operation																		133.1	141.0	a	d	d	а	d	d	f	f
ZeeEnergie / Gemini II	4C Offshore	High - Third party project details published in the public domain	c Offshore Wind Farm	Active/In Operation																		329.7	337.2	a	d	d	а	d	d	f	f



Table 5: Oil a	and Gas						Const	ruction Pe	riod (ree	d outline	denote	s Five Est	uaries of	fshore co	nstructio	n period)															
Project	Data Source(s)	Data Confidence Assessment	Notes	Status of Development	2021	2022 2023	2024	2025	2026	2027 2028	2020 2029	2030	2031	2032	2033	2034	2035 - 2045	2046 - 2056 2057 - 2067	Distanc from the array ar (km)	ea VE Export Cable Corridor	Marine Geology, Oceanography and Physical Processes	Marine Water and Sediment Quality	Benthic and tertidal Ecology	ish and Shellfish Ecology	Marine Mammal Ecology	Offshore Ornithology	Commercial Fisheries	Shipping and Navigation	Allitary and Civil Aviation	Seascape, Landscape and Visual	Offshore vrchaeology and cultural Heritage frastructure and Other Marine Users
48/18B- 9	CONOCOPHILLIPS	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		ACTIVE															157.5	(km) 163.7	d	2 0		d	a			a	2		f f
48/29A-FTP	PETROFAC	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		ACTIVE															115.7	122.4	d			d	a			a			f f
48/29A-P	PETROFAC	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		ACTIVE															115.8	122.5	d			d	a			a			f f
48/29A-Q	PETROFAC	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	PLATFORM	ACTIVE															115.8	122.5	d			d	a			a			f f
48/29B	PETROFAC	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		ACTIVE															121.5	128.3	d			d	a			а			f f
48/29C	PETROFAC	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		ACTIVE															124.9	131.6	d			d	a			a			f f
48/9A MIMAS	CONOCOPHILLIPS	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	PLATFORM	ACTIVE															198.4	205.0	d			d	a			a			f f
49/11B TETHYS	CONOCOPHILLIPS	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	PLATFORM	ACTIVE															183.7	190.1	d			d	a			а			f f
49/23- 3	PERENCO	Medium - Third party project details published in the public domain but not confirmed as being 'accurate' Medium - Third party project	WELLHEAD	ACTIVE															147.6	153.4	d			d	a			a			f f
4INCH MORGRIP REPAIR CONNECTION 1		details published in the public domain but not confirmed as being 'accurate'	OTHER SUBSEA	ACTIVE															118.9	125.4	d			d	a			a			f f
4INCH MORGRIP REPAIR CONNECTION 2	SHELL UK	details published in the public domain but not confirmed as being 'accurate'	OTHER SUBSEA	ACTIVE															118.9	125.4	d			d	a			a			f f
52/5A	PETROFAC	details published in the public domain but not confirmed as being 'accurate'	PLATFORM	ACTIVE															113.1	119.7	d			d	a			a			f f
53/02A-14A LEMAN SOUTH	PERENCO	details published in the public domain but not confirmed as being 'accurate'	<sup>3</sup> WELLHEAD	PRECOMMISSI ON															109.8	115.8	d			d	a			a			f f
53/2-13 (ARTHUR 2)	EXXONMOBIL	details published in the public domain but not confirmed as being 'accurate'	WELLHEAD	ACTIVE															100.0	106.1	d			d	a			a			f f
53/2-13 (ARTHUR 3)	EXXONMOBIL	details published in the public domain but not confirmed as being 'accurate'	WELLHEAD	ACTIVE															100.8	107.1	d			d	a			a			f f
ALISON/KX WELLHEAD	CENTRICA	details published in the public domain but not confirmed as being 'accurate'	MANIFOLD	ACTIVE															167.8	174.1	d			d	a			a			f f
AMETHYST A1D	BP EXPLORATION	details published in the public domain but not confirmed as being 'accurate'	PLATFORM	ACTIVE															203.1	196.8	d			d	a			a			f f
AMETHYST A2D	BP EXPLORATION	Medium - Third party project details published in the public domain but not confirmed as being 'accurate' Medium - Third party project		ACTIVE															202.3	197.0	d			d	a			a			f f
AMETHYST B1D	BP EXPLORATION	details published in the public domain but not confirmed as being 'accurate' Medium - Third party project		ACTIVE															193.5	189.0	d			d	a	_		a			f f
ANCHOR APPROX 3.5M X 1.8M KFB:13/2018	SEAFISH	Medium - I nird party project details published in the public domain but not confirmed as being 'accurate' Medium - Third party project		ACTIVE															201.8	162.8	d			d	a	_		a			f f
ANGLIA A	GDF BRITAIN	details published in the public domain but not confirmed as being 'accurate' Medium - Third party project	PLATFORM	ACTIVE															155.9	162.6	d			d	a			a			f f
ANGLIA YD	CONOCOPHILLIPS	details published in the public domain but not confirmed as being 'accurate' Medium - Third party project		ACTIVE															155.9	162.6	d			d	a			а			f f
ANN A4 WELLHEAD	CENTRICA	details published in the public domain but not confirmed as being 'accurate' Medium - Third party project		ACTIVE															190.9	197.3	d			d	a		_	a		_	f f
	VENTURE	Medium - I nird party project details published in the public domain but not confirmed as being 'accurate' Medium - Third party project		ACTIVE															190.9	197.2	d			d	a		_	a		_	f f
	CENTRICA	Medium - Third party project details published in the public domain but not confirmed as being 'accurate' Medium - Third party project		ACTIVE															187.7	194.2	d			d	a			a			f f
ANNABEL 2 SUBSEA WELLHEAD	VENTURE	details published in the public domain but not confirmed as being 'accurate'	WELLHEAD	ACTIVE															187.8	194.3	d			d	a			a			f f



Table 5: Oil	and Gas						Cons	ruction Peri	od (red o	outline de	enotes Fi	ive Estua	aries offs	hore cons	structior	n period)			7													
Project	Data Source(s)	Data Confidence Assessment	Notes	Status of Development	2021	2022		2025 2026	2027	2028	2029	2030	2031			3	2035 - 2045	2046 - 2056 2057 - 2067	Distance from the VE array area (km)	Distance from the VE Offshore Export Cable Corridor (km)	Marine Geology, Oceanography and Physical Processes	Marine Water and Sediment Quality	Benthic and ntertidal Ecology	rish and Shellfish Ecology	Marine Mammal Ecology	Offshore Ornithology	Commercial Fisheries	Shipping and Navigation	Military and Civil Aviation	Seascape, Landscape and Visual	Offshore Archaeology and Cultural Heritage	nfrastructure and Other Marine Users
ANNABEL 2 WELLHEAD	CONOCOPHILLIPS	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		ACTIVE															187.8	194.3	d			d	a			a			f	
ANNABEL MANIFOLD	CENTRICA	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	MANIFOLD	ACTIVE															187.7	194.2	d			d	a			a			f 1	
ARTHUR MANIFOLD	EXXONMOBIL	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	MANIFOLD	ACTIVE															101.6	107.8	d			d	a			а			f í	
AUDREY "WM" 7X WELLHEAD	CENTRICA	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	WELLHEAD	ACTIVE															171.6	178.1	d			d	a			a			f 1	
AUDREY A (WD)	CONOCOPHILLIPS	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		ACTIVE															171.5	178.0	d			d	a			a			f	
AUDREY B (XW)	CONOCOPHILLIPS	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		ACTIVE															174.8	181.3	d			d	a			a			f 1	
BACTON GAS TERMINA	- BGS	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	TERMINAL	ACTIVE															106.2	106.2	d			d	a			a			f	
BARQUE PB	SHELL UK	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	PLATFORM	ACTIVE															184.3	190.3	d			d	a			a			f	
BARQUE PL	SHELL UK	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	PLATFORM	ACTIVE															177.9	184.6	d			d	a			a			f	
BESSEMER A	PERENCO	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	PLATFORM	ACTIVE															135.0	140.8	d			d	a			a			f	
BRIGANTINE BG	SHELL UK	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	PLATFORM	ACTIVE															159.5	165.1	d			d	a			a			f í	
BRIGANTINE BR	SHELL UK	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	PLATFORM	ACTIVE															164.4	170.1	d			d	a			a			f 1	
BURE 'O'	EXXONMOBIL	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		ACTIVE															126.2	132.1	d			d	a			a			f	
BURE WEST	EXXONMOBIL	Medium - Third party project details published in the public domain but not confirmed as being 'accurate' Medium - Third party project	WELLHEAD	ACTIVE															126.6	132.5	d			d	a			a			f	
CALLISTO WELLHEAD Z	M CONOCOPHILLIPS	details published in the public domain but not confirmed as being 'accurate'	WELLHEAD	ACTIVE															138.9	144.9	d			d	a			a			f	
CAMELOT TEE	PETROFAC	details published in the public domain but not confirmed as being 'accurate'	PIPE JUNCTION	ABANDONED															108.9	115.2	d			d	a			a			f 1	
CARAVEL QR	SHELL UK	details published in the public domain but not confirmed as being 'accurate'	PLATFORM	ACTIVE															166.6	171.9	d			d	a			a			f 1	
CARAVEL WYE	SHELL	details published in the public domain but not confirmed as being 'accurate'	MANIFOLD	ACTIVE															166.6	171.9	d			d	a			a			f í	
CARRACK EAST WELLHEAD	SHELL	details published in the public domain but not confirmed as being 'accurate'	WELLHEAD	ACTIVE															181.9	187.3	d			d	a			a			f 1	
CARRACK MANIFOLD	SHELL	details published in the public domain but not confirmed as being 'accurate'	MANIFOLD	ACTIVE															180.7	186.3	d			d	a			a			f	
CARRACK QA	SHELL UK	details published in the public domain but not confirmed as being 'accurate' Medium - Third party project	PLATFORM	ACTIVE															180.7	186.3	d			d	a			a			f 1	
CARRACK WEST WELLHEAD	SHELL	details published in the public domain but not confirmed as being 'accurate' Medium - Third party project	WELLHEAD	ACTIVE															181.4	187.1	d			d	a			a			f	
CLIPPER 16 INCH LINE SSIV	SHELL	details published in the public domain but not confirmed as being 'accurate' Medium - Third party project	VALVE	ACTIVE															164.6	171.3	d			d	a			a			f 1	
CLIPPER 24 INCHLINE SSIV	SHELL	details published in the public domain but not confirmed as being 'accurate'	VALVE	ACTIVE															164.6	171.3	d			d	a			a		_	f	
CLIPPER PC	SHELL UK	details published in the public domain but not confirmed as being 'accurate'	PLATFORM	ACTIVE															164.8	171.4	d			d	a			a			f	
CLIPPER PH	SHELL	details published in the public domain but not confirmed as being 'accurate'	DI ATEODM	ACTIVE															164.8	171.4	d			d	a			a			f	



Table 5: Oil a	and Gas						Cons	struction P	Period (r	ed outline	e denot	es Five Est	uaries of	ffshore co	onstructio	on period	)		_														
Project	Data Source(s)	Data Confidence Assessment	Notes	Status of Development	2021	2022 2023				2027		2029 2030	2031	2032	2033	2034	2035 - 2045	2046 - 2056 2057 - 2067	Di fro ar (ki	istance om the VE ray area m)	Distance from the VE Offshore Export Cable Corridor (km)	Marine Geology, Oceanography and Physical Processes	Marine Water and Sediment Quality	Benthic and tertidal Ecology	ish and Shellfish Ecology	Marine Mammal Ecology	Offshore Ornithology	Commercial Fisheries	Shipping and Navigation	Military and Civil Aviation	Seascape, Landscape and Vienal	Offshore Archaeology and Cultural Heritage	nfrastructure and Other Marine Users
CLIPPER PM	SHELL UK	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		ACTIVE															16	64.7	171.4	d	20		d	a			a			f	f
CLIPPER PR	SHELL UK	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		ACTIVE															16	64.7	171.3	d			d	a			a			f	f
CLIPPER PT	SHELL UK	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		ACTIVE															16	64.8	171.4	d			d	a			а			f	f
CLIPPER PW	SHELL UK	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	PLATFORM	ACTIVE															16	64.9	171.5	d			d	a			a			f	f
CLIPPER SOUTH	RWE	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	PLATFORM	ACTIVE															15	58.2	164.8	d			d	a			а			f	f
CORVETTE	SHELL UK	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	PLATFORM	ACTIVE															14	10.5	146.1	d			d	a			a			f	f
CORVETTE WYE	SHELL	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	MANIFOLD	ACTIVE															14	10.4	146.1	d			d	а			а			f	f
CPT ROD FLAT ON SEABED KFB:16/2018	SEAFISH	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	C OTHER SUBSEA	ACTIVE															12	26.7	132.1	d			d	a			a			f	f
CPT ROD GREATER THAN 1M BELOW SEABED KFB:16/2018	SEAFISH	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	C OTHER SUBSEA	ACTIVE															12	20.8	126.2	d			d	а			a			f	f
CPT RODS ON/IN SEABED KFB:16/2018	SEAFISH	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	C OTHER SUBSEA	ACTIVE															12	25.1	130.4	d			d	a			a			f	f
CUTTER	SHELL UK	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	C PLATFORM	ACTIVE															19	91.1	196.9	d			d	а			a			f	f
DAVY A	PERENCO	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	C PLATFORM	ACTIVE															12	21.6	127.2	d			d	a			a			f	f
DAVY EAST	PERENCO	Medium - Third party project details published in the public domain but not confirmed as being 'accurate' Medium - Third party project	© WELLHEAD	ACTIVE															12	21.2	127.1	d			d	a			a			f	f
DURANGO 48/21A-4	Bridge Resources Corp.	details published in the public domain but not confirmed as being 'accurate'	© WELLHEAD	PRECOMMISSI ON															15	59.6	156.3	d			d	a			a			f	f
E+ WELLHEAD (VIXEN)	CONOCOPHILLIPS	details published in the public domain but not confirmed as being 'accurate'	© WELLHEAD	ACTIVE															15	55.5	161.8	d			d	a			a			f	f
ENSIGN 2	VENTURE	Medium - I nird party project details published in the public domain but not confirmed as being 'accurate' Medium - Third party project	© WELLHEAD	PRECOMMISSI ON															17	78.8	185.4	d			d	a			a			f	f
ENSIGN 48/14-ED SUBSEA WELLHEAD 48/14-7Y	CENTRICA	details published in the public domain but not confirmed as being 'accurate' Medium - Third party project	WELLHEAD	PRECOMMISSI ON															18	30.4	187.0	d			d	a			a			f	f
ENSIGN PLATFORM	CENTRICA	details published in the public domain but not confirmed as being 'accurate'	C PLATFORM	PRECOMMISSI ON															17	78.8	185.4	d			d	a			a			f	f
EXCALIBER EA	EXXONMOBIL	details published in the public domain but not confirmed as being 'accurate' Medium - Third party project	C PLATFORM	ACTIVE															17	71.9	174.0	d			d	a			a			f	f
EXPORT LINE SSIV SPOOL	ONE-DYAS	details published in the public domain but not confirmed as being 'accurate'	C VALVE	ACTIVE															14	10.0	145.3	d			d	a			a			f	f
GALAHAD	EXXONMOBIL	details published in the public domain but not confirmed as being 'accurate' Medium - Third party project		ACTIVE															18	30.2	183.1	d			d	a			a			f	f
GALAHAD TEE	BGS	details published in the public domain but not confirmed as being 'accurate' Medium - Third party project		ACTIVE															17	7.5	180.4	d			d	а			a			f	f
GALAHAD TEE	EXXONMOBIL	details published in the public domain but not confirmed as being 'accurate'	© PIPE JUNCTION	ACTIVE															18	30.1	183.1	d			d	a			a			f	f
GALLEON PG	SHELL UK	details published in the public domain but not confirmed as being 'accurate'	C PLATFORM	ACTIVE															17	70.8	177.4	d			d	а			a			f	f
GALLEON PN	SHELL UK	details published in the public domain but not confirmed as being 'accurate'	C PLATFORM	ACTIVE															16	3.4	169.9	d			d	a			a			f	f
GAWAIN G1	EXXONMOBIL	details published in the public domain but not confirmed as being 'accurate'		ACTIVE															13	34.6	140.0	d			d	а			a			f	f



Table 5: Oil	and Gas			-			Const	uction Period	(red outli	ne denot	es Five E	stuaries o	offshore co	onstructi	ion period	)															
Project	Data Source(s)	Data Confidence Assessment	Notes	Status of Development	2021	2022 2023	2024	2025 2026	2027	2028	2029 2020	2031	2032	2033	2034	2035 - 2045	2046 - 2056 2067 - 2067	Dist fror arra (km	)	Distance from the VE Offshore Export Cable Corridor (km)	Marine Geology, Oceanography and Physical Processes	Marine Water and Sediment Quality	Benthic and Intertidal Ecology	ish and Shellfish Ecology	Marine Mammal Ecology	Offshore Ornithology	Commercial Fisheries	Shipping and Navigation	Military and Civil Aviation	Seascape, Landscape and Visual	Offshore Archaeology and Cultural Heritage Infrastructure and Other Marine Users
GAWAIN G2	EXXONMOBIL	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	WELLHEAD	ACTIVE														134	.6	140.0	d			d	a			a			f f
GAWAIN G3	EXXONMOBIL	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		ACTIVE														134	.6	140.0	d			d	a			а			f f
GROVE PLATFORM	VENTURE	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		ACTIVE														196	.5	202.1	d			d	a			a			f f
GROVE WEST	VENTURE	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		ACTIVE														196	.2	201.8	d			d	a			a			f f
GROVE WEST CHOKE VALVE	VENTURE	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	VALVE	ACTIVE														196	.2	201.8	d			d	a			a			f f
GUINEVERE A	EXXONMOBIL	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	PLATFORM	ACTIVE														168	.3	168.8	d			d	a			a			f f
HEWETT 48/30-11 (DELLA) MTM CENTRE	TULLOW	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	MANIFOLD	ACTIVE														118	.5	125.2	d			d	a			a			f f
HEWETT 48/30-11 (DELLA) PLEM CENTRE	TULLOW	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		ACTIVE														121	.3	127.9	d			d	a			a			f f
HEWETT WELL 48/29-9 (DAWN)	TULLOW	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		NOT IN USE														129	.5	136.2	d			d	a			a			f f
HEWETT WELL 48/30-10 (DEBORAH)	TULLOW	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	WELLHEAD	ACTIVE														122	.6	129.2	d			d	a			a			f f
HEWETT WELL 48/30-11 (DELLA)	TOLLOW	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		ACTIVE														121	.3	127.9	d			d	a			a			f f
HEWETT WELL 48/30-14 (DEBORAH)	TULLOW	details published in the public	WELLHEAD	ACTIVE														122	.5	129.2	d			d	a			а			f f
HEWETT WELL 48/30-15 (LITTLE DOTTY)	TULLOW	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	WELLHEAD	NOT IN USE														118	.4	125.0	d			d	a			a			f f
HEWETT WELL 48/30-16 (DELILAH)	TULLOW	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	WELLHEAD	NOT IN USE														121	.1	127.7	d			d	a			a			f f
HEWETT WELL 48/30-8 (DEBORAH)	TULLOW	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	WELLHEAD	ACTIVE														122	.6	129.2	d			d	a			a			f f
HEWETT WELL 48/30-9 (LITTLE DOTTY BUNTER	R) TULLOW	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	WELLHEAD	NOT IN USE														116	.7	123.3	d			d	a			a			f f
INDE AC	PERENCO	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	PLATFORM	ACTIVE														149	.8	155.5	d			d	a			a			f f
INDE AD	PERENCO	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	PLATFORM	ACTIVE														154	.0	159.8	d			d	a			a			f f
INDE AP	PERENCO	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	DI ATEORM	ACTIVE														154	.1	159.9	d			d	a			a			f f
INDE AQ	PERENCO	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		ACTIVE														149	.9	155.7	d			d	a			а			f f
INDE AT	PERENCO	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	PLATFORM	ACTIVE														149	.7	155.5	d			d	a			a			f f
INDE BD	PERENCO	Medium - Third party project details published in the public domain but not confirmed as being 'accurate' Medium - Third party project	PLATFORM	ACTIVE														156	.7	162.5	d			d	a			a			f f
INDE BP	PERENCO	details published in the public domain but not confirmed as being 'accurate'	PLATFORM	ACTIVE														156	.7	162.6	d			d	a			а			f f
INDE CD	PERENCO	Medium - Third party project details published in the public domain but not confirmed as being 'accurate' weatum - Third party project	PLATEORM	ACTIVE														147	.9	153.7	d			d	a			а			f f
INDE CP	PERENCO	details published in the public	PLATFORM	ACTIVE														148	.0	153.7	d			d	а			a			f f
INDE D	PERENCO	demain but not confirmed on Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	PLATEORM	ACTIVE														146	.6	152.5	d			d	a			a			f f
ISOLATION VALVE (8X8X2.6M) :136	BP	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	VALVE	ACTIVE														152	.9	159.6	d			d	a			a			f f



Table 5: Oil a	and Gas						Cons	struction F	Period (r	ed outline	e denot	es Five Est	uaries of	ffshore c	onstructi	on period	)																
Project	Data Source(s)	Data Confidence Assessment	Notes	Status of Development	2021	2022				2027		2029 2030		2032	2033	2034	2045	2046 - 2056 2067 - 2067	Dis frc ari k k k	stance om the VE ray area m)	Distance from the VE Offshore Export Cable Corridor (km)	Marine Geology, Oceanography and Physical Processes	Marine Water and Sediment Quality	Benthic and ntertidal Ecology	ish and Shellfish Ecology	Marine Mammal Ecology	Offshore Ornithology	Commercial Fisheries	Shipping and Navigation	Military and Civil Aviation	Seascape, Landscape and Visual	Offshore Archaeology and Cultural Heritage	other Marine Users
LANCELOT A	EXXONMOBIL	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	PLATEODM	ACTIVE															16	5.5	167.8	d	200	=	d	a			a			f f	,
LANCELOT TEE	EXXONMOBIL	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		ACTIVE															16	5.2	167.5	d			d	a			a			f f	
LEMAN AC	PERENCO	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		ACTIVE															11	7.3	123.5	d			d	a			а			f f	
LEMAN AC (SHELL)	SHELL	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	PLATFORM	ACTIVE															12	1.3	127.6	d			d	a			а			f f	
LEMAN AD	PERENCO	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	PLATFORM	ACTIVE															11	7.2	123.4	d			d	a			а			f f	
LEMAN AD1	SHELL UK	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	PLATFORM	ACTIVE															12	:1.1	127.5	d			d	a			а			f f	
LEMAN AD2	SHELL UK	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	PLATFORM	ACTIVE															12	1.2	127.6	d			d	a			a			f f	
LEMAN AK	SHELL UK	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	° PLATFORM	ACTIVE															12	1.2	127.6	d			d	a			a			f f	
LEMAN AP (PERENCO)	PERENCO	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	° PLATFORM	ACTIVE															11	7.3	123.5	d			d	a			a			f f	
LEMAN AP (SHELL)	SHELL UK	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	PLATFORM	ACTIVE															12	1.2	127.5	d			d	a			а			f f	
LEMAN AP SSIV	SHELL	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	VALVE	ACTIVE															12	0.9	127.3	d			d	a			a			f f	
LEMAN AQ	PERENCO	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	PLATFORM	ACTIVE															11	7.4	123.6	d			d	a			a			f f	
LEMAN AX	PERENCO	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	° PLATFORM	ACTIVE															11	7.4	123.6	d			d	a			а			f f	
LEMAN BD (PERENCO)	PERENCO	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	PLATFORM	ACTIVE															11	7.1	123.2	d			d	a			а			f f	
LEMAN BD (SHELL)	SHELL UK	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	C PLATFORM	ACTIVE															11	9.6	125.9	d			d	a			a			f f	
LEMAN BP (PERENCO)	PERENCO	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	° PLATFORM	ACTIVE															11	7.2	123.3	d			d	a			a			f f	
LEMAN BP (SHELL)	SHELL UK	Medium - Third party project details published in the publi domain but not confirmed as being 'accurate' Medium - Third party project	PLATFORM	ACTIVE															11	9.7	126.0	d			d	a			a			f f	
LEMAN BT (PERENCO)	PERENCO	details published in the public domain but not confirmed as being 'accurate'	C PLATFORM	ACTIVE															11	7.2	123.4	d			d	a			a			f f	
LEMAN BT (SHELL)	SHELL UK	details published in the public domain but not confirmed as being 'accurate'	C PLATFORM	ACTIVE															12	0.2	126.5	d			d	a			a			f f	
LEMAN CD (PERENCO)	PERENCO	details published in the public domain but not confirmed as being 'accurate'	C PLATFORM	ACTIVE															11	4.2	120.4	d			d	a			a			f f	
LEMAN CD (SHELL)	SHELL UK	Medium - 1 hird party project details published in the public domain but not confirmed as being 'accurate' Medium - Third party project	PLATFORM	ACTIVE															12	1.9	128.2	d			d	a			a		_	f f	
LEMAN CP (PERENCO)	PERENCO	details published in the public domain but not confirmed as being 'accurate' Medium - Third party project	PLATFORM	ACTIVE															11	4.3	120.5	d			d	a			a		_	f f	
LEMAN CP (SHELL)	SHELL UK	details published in the public domain but not confirmed as being 'accurate'	C PLATFORM	ACTIVE															12	1.9	128.2	d			d	a			a		_	f f	
LEMAN D	SHELL UK	details published in the public domain but not confirmed as being 'accurate'	C PLATFORM	ACTIVE															11	2.2	118.5	d			d	a			a		_	f f	
LEMAN DD	PERENCO	details published in the public domain but not confirmed as being 'accurate'	C PLATFORM	ACTIVE															11	3.7	119.7	d			d	a			a		_	f f	
LEMAN DP	PERENCO	details published in the public domain but not confirmed as being 'accurate'		ACTIVE															11	3.7	119.8	d			d	а			а			f f	



Table 5: Oil	and Gas			-			Constr	ruction Pe	riod (rec	d outline c	lenotes	Five Estu	uaries offs	shore con	structior	n period)			7												
Project	Data Source(s)	Data Confidence Assessment	Notes	Status of Development	2021 2022	2023	2024	2025	2026	202/ 2028	2029	2030	2031	2032	2033	2034 2035 - 2046	0407 - 0007	2046 - 2056 2057 - 2067	Distance from the VE array area (km)	Distance from the VE Offshore Export Cable Corridor (km)	Marine Geology, Oceanography and Physical Processes	Marine Water and Sediment Quality	Benthic and ntertidal Ecology	ish and Shellfish Ecology	Marine Mammal Ecology	Offshore Ornithology	Commercial Fisheries	Shipping and Navigation	Military and Civil Aviation	Seascape, Landscape and Visual	Offshore Archaeology and Cultural Heritage Infrastructure and Other Marine Isors
LEMAN E	SHELL UK	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	PLATFORM	ACTIVE															117.0	123.3	d		_	d	a			a			f f
LEMAN ED	PERENCO	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		ACTIVE															117.9	124.2	d			d	a			a			f f
LEMAN EP	PERENCO	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		ACTIVE															118.0	124.2	d			d	a			a			f f
LEMAN F	SHELL UK	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		ACTIVE															123.4	129.8	d			d	a			a			f f
LEMAN FD	PERENCO	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	PLATFORM	ACTIVE															116.1	122.2	d			d	a			a			f f
LEMAN FP	PERENCO	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	PLATFORM	ACTIVE															116.2	122.3	d			d	a			a			ff
LEMAN G (PERENCO)	PERENCO	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		ACTIVE															116.3	122.2	d			d	a			а			ff
LEMAN G (SHELL)	SHELL UK	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	PLATFORM	ACTIVE															124.3	130.7	d			d	a			a			ff
LEMAN H	PERENCO	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		ACTIVE															111.7	118.0	d			d	a			a			f f
LEMAN J	PERENCO	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		ACTIVE															114.8	121.1	d			d	a			a			ff
LEMAN SW 53/02A-15	PERENCO	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		ACTIVE															109.8	115.9	d			d	a			a			f f
LOGGS ACCOMMODATION	CONOCOPHILLIPS	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		NOT IN USE															154.8	161.3	d			d	a			a			f f
LOGGS COMPRESSION	CONOCOPHILLIPS	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	PLATFORM	NOT IN USE															154.9	161.4	d			d	a			а			f f
LOGGS PRODUCTION	CONOCOPHILLIPS	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		NOT IN USE															154.9	161.3	d			d	a			a			f f
LOGGS RISER	CONOCOPHILLIPS	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		NOT IN USE															154.9	161.4	d			d	a			a			f f
LOST DRAGHEAD KFB10/2019	SEAFISH	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	OTHER SUBSEA	ACTIVE															150.6	125.8	d			d	a			a			f f
LOST WIRE	SEAFISH	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		ACTIVE															156.1	162.3	d			d	a			a			f f
MALORY	EXXONMOBIL	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	PLATEODA	ACTIVE															182.4	183.3	d			d	a			a			f f
MIMAS MN	CONOCOPHILLIPS	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	PLATEORM	ACTIVE															198.4	205.0	d			d	a			a			f f
N DAVY 49/30A- 7A	PERENCO	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		ACTIVE															128.4	133.7	d			d	a			a			f f
NORTH VALIANT 1	CONOCOPHILLIPS	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		NOT IN USE															154.9	161.3	d			d	a			a			f f
NORTH VALIANT 2	CONOCOPHILLIPS	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	PLATFORM	NOT IN USE															151.1	157.5	d			d	a			a			f f
NW BELL	CONOCOPHILLIPS	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	WELLHEAD	ACTIVE															139.0	145.0	d			d	a			a			f f
NW BELL 49/23- 9	PERENCO	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		ACTIVE															142.3	148.3	d			d	a			a			f f
ORWELL D1	EXXONMOBIL	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		ACTIVE															139.2	144.9	d			d	a			a			f f
ORWELL D2	EXXONMOBIL	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		ACTIVE															139.2	144.9	d			d	a			a			f f



Table 5: Oil	and Gas								/										_													
							Con	struction	Period (r	red outline	e denotes	s Five Es	tuaries of	fshore cor	nstructio	n period)				Distance	Ś.>-	and lity	ABo	lish	a				<u>vi</u>	p	bu bu	
Project	Data Source(s)	Data Confidence Assessment	Notes	Status of Development	2021	2022	2023 2024	2025	2026	2027	2028 2029	2030	2031	2032	2033	2034	2035 - 2045	2046 - 2056 2057 - 2067	Distance from the VI array area (km)	from the VE Offshore Export Cable Corridor (km)	Marine Geolog Oceanograph and Physica Processes	Marine Water a Sediment Qual	Benthic and ntertidal Ecolo	ish and Shellf Ecology	Marine Mamm Ecology	Offshore Ornithology	Commercial Fisheries	Shipping and Navigation	Wilitary and Ci Aviation	Seascape, Landscape an Visual	Offshore Archaeology a Cultural Herita	Other Marine Users
ORWELL D3	EXXONMOBIL	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		ACTIVE															139.2	(KH) 144.9	d	20)		d	a			a	-		f f	
PICKERILL A	PERENCO	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	DI ATEORM	ACTIVE															187.0	185.3	d			d	a			a			f f	
PICKERILL B	PERENCO	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		ACTIVE															182.4	181.8	d			d	a			a			f f	
PIPE EXPOSED AT SUBSEA TEE :1170	вр	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	PIPE JUNCTION	ACTIVE															114.8	121.1	d			d	a			a			f f	
PIPELINE PROTECTION UNITS	SHELL	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		ACTIVE															180.7	186.2	d			d	a			a			f f	
PIPELINE SPAN JULIET EXPORT 15M X 1.3M KFE 19/2017	B: SEAFISH	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	OTHER SUBSEA	ACTIVE															190.7	187.7	d			d	a			a			f f	
PL253 SOUTHERN TEE	PERENCO	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		ACTIVE															152.9	159.6	d			d	a			a			f f	
PLEM DELLA :395	SEAFISH	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		ACTIVE															121.3	127.9	d			d	a			a			f f	
RISER 49/18-AD :1155	BP	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		ACTIVE															154.1	159.9	d			d	a			a			f f	
RISER 49/27-AP :1196	BP	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	RISER BASE	ACTIVE															117.3	123.5	d			d	a			a			f f	
RISER 49/27-BT :1169 RISER. 53/1-A :882	BP BP	details published in the public domain but not confirmed as		ACTIVE															117.2 105.2	123.4	d d			d d	a			a a			f f f f	
SATURN ND	CONOCOPHILLIPS	being 'accurate' Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	DI ATEODIA	ACTIVE															192.6	199.1	d			d	a			a			f f	
SEAN PD	SHELL UK	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		ACTIVE															140.4	145.7	d			d	a			a			f f	
SEAN PP	SHELL UK	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	DI ATEORM	ACTIVE															140.3	145.6	d			d	a			a			f f	
SEAN PP SSIV	SHELL	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		ACTIVE															140.0	145.3	d			d	a			а			f f	
SEAN RD	SHELL UK	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	PLATFORM	ACTIVE															143.5	148.8	d			d	a			a			f f	
SHAMROCK QS	SHELL UK	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	PLATFORM	ACTIVE															171.4	176.7	d			d	a			a			f f	
SINOPE TEE	CONOCOPHILLIPS	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	PIPE JUNCTION	NOT IN USE															142.5	148.7	d			d	a			a			f f	
SKIFF	SHELL UK	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	PLATEORM	ACTIVE															162.2	168.8	d			d	a			a			f f	
SOUTH VALIANT	CONOCOPHILLIPS	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		NOT IN USE															146.6	153.0	d			d	a			a			f f	
SSIV LAPS :399	SEAFISH	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		ACTIVE															165.2	167.5	d			d	a			a			f f	
SURFACE MOORING BUOY 1	ONEBV	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		ACTIVE															141.3	146.6	d			d	a			a			f f	
SURFACE MOORING BUOY 2	ONEBV	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	OTHER SURFACE	ACTIVE															138.9	144.2	d			d	a			a			f f	
TEE PIECE ON PL454	SEAFISH	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	PIPE JUNCTION	NOT IN USE															165.3	165.1	d			d	a			a			f f	
TEE PIECE ON PL454 (FUTURE TEE)	SEAFISH	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		NOT IN USE															158.2	164.9	d			d	a			a			f f	



Table 5: Oil a	and Gas						Constru	uction Period	d (red ou	ıtline den	otes Fiv	e Estuario	s offshore	construc	tion perio	d)															
Project	Data Source(s)	Data Confidence Assessment	Notes	Status of Development	2021	2023	2024	2025 2026	2027	2028	2029	2030	2031 2032	2033	2034	2035 - 2045	2046 - 2056 2057 - 2067	Distance from the ' array area (km)		Marine Geology, Oceanography and Physical Processes	Marine Water and Sediment Quality	Benthic and Intertidal Ecology	⁻ish and Shellfish Ecology	Marine Mammal Ecology	Offshore Ornithology	Commercial Fisheries	Shipping and Navigation	Military and Civil Aviation	Seascape, Landscape and Visual	Offshore Archaeology and Cultural Heritage Infrastructure and Othor Marino	Other Marine Users
TEE PIECE WENLOCK PL2355	ALPHA PETROLEUM	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	PIPE JUNCTION	ACTIVE														164.9	171.0	d			d	a			a			f f	
TEE-PIECE PL207 CONNECTION :1173	BP	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	PIPE JUNCTION	ACTIVE														114.8	121.1	d			d	a			а			f f	
TEE-PIECE TO 30IN A2D DIMLINGTON GAS P :788	BP	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		ACTIVE														203.0	196.8	d			d	a			a			f f	
TEE-PIECE TO 30IN A2D- DIMLINGTON GAS PIP :790	BP	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		ACTIVE														202.9	196.7	d			d	a			a			f f	
TEE-PIECE TO AMETHYST A1D :752	BP	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	PIPE JUNCTION	ACTIVE														203.0	196.8	d			d	a			a			f f	
TETHYS TEE	TOTAL	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	PIPE JUNCTION	ACTIVE														180.3	186.7	d			d	a			a			f f	
THAMES A	EXXONMOBIL	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	PLATFORM	ACTIVE														123.3	129.0	d			d	a			a			f f	
THAMES AR	EXXONMOBIL	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	PLATFORM	ACTIVE														123.3	129.0	d			d	a			a			f f	
THEDDLETHORPE GAS TERMINAL	BGS	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		ACTIVE														198.2	182.8	d			d	a			a			f f	
VAMPIRE OD MPS	CONOCOPHILLIPS	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		NOT IN USE														187.3	193.7	d			d	a			a			f f	
VANGUARD	CONOCOPHILLIPS	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		NOT IN USE														153.2	159.6	d			d	a			a			f f	
VICTOR NORTH WEST WELLHEAD	CONOCOPHILLIPS	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		ACTIVE														150.4	156.6	d			d	a			a			f f	
VICTORIA 49/17- 14	NEO ENERGY	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	WELLHEAD	NOT IN USE														162.8	168.9	d			d	a			a			f f	
VICTORIA VALVE SKID	CONOCOPHILLIPS	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	VALVE	ACTIVE														162.8	168.9	d			d	a			a			f f	
VIKING VALVE SKID	CONOCOPHILLIPS	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		NOT IN USE														161.3	167.4	d			d	a			a			ff	
VIXEN VM WELL	CONOCOPHILLIPS	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	WELLHEAD	ACTIVE														155.5	161.8	d			d	а			а			f f	
VULCAN 1	CONOCOPHILLIPS	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	PLATFORM	NOT IN USE														139.0	145.4	d			d	а			а			f f	
WAVENEY	PERENCO	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	PLATFORM	ACTIVE														161.1	161.8	d			d	а			а			f f	
WAVENEY STEP-OUT TEE	PERENCO	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		ACTIVE														165.2	167.5	d			d	а			а			f f	
WAVENY TEE	EXXONMOBIL	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	PIPE JUNCTION	ACTIVE														165.2	167.5	d			d	a			а			f f	
WELL 48/29-9 :398	SEAFISH	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		ACTIVE														129.7	136.4	d			d	a			a			f f	
WELLAND 3	EXXONMOBIL	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	WELLHEAD	ABANDONED														117.4	122.8	d			d	а			a			r f	
WELLAND 4	EXXONMOBIL	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		ABANDONED														117.3	122.6	d			d	a			a			f f	
WENLOCK LEGACY WEL 49/12A-8	L ALPHA PETROLEUM	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	WELLHEAD	ACTIVE														176.7	182.9	d			d	a			a			r f	
WENLOCK NUI	АТР	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	PLATFORM	ACTIVE														176.9	183.0	d			d	а			a			f f	
WRECK FV SONJA Z.19 KFB:18/2018	SEAFISH	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		ACTIVE														90.5	96.4	d			d	а			a			r f	



Table 5: Oil	and Gas					_												1												
Project	Data Source(s)		tatus of levelopment	2021 2022	2023	Properties of the second secon	uction Pe	riod (rec 0.56		EFive Es	tuaries o	offshore co 28 07	E E E R	on period	2035 - 2045	2046 - 2056	2057 - 2067	Distance from the VE array area (km)	Distance from the VE Offshore Export Cable Corridor (km)	Marine Geology, Oceanography and Physical	Processes Marine Water and Sediment Quality	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammal Ecology	Offshore Ornithology	Commercial Fisheries	Shipping and Navigation	Military and Civil Aviation	Seascape, Landscape and Visual	Offshore Archaeology and Cultural Heritage Infrastructure and Other Marine Users
WYE PIECE	SHELL UK	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	CTIVE															183.1	188.8	d			d	а			a		f	f
YARE 'C'	EXXONMOBIL	Medium - Third party project	CTIVE															119.5	125.1	d			d	a			a		f	f



Table 2: Port	ts and Harbo	urs					Constructio	n Period (re	ed outline	denotes	Five Estuari	ies offsho	re construc	tion period		1													
Port	Data Source(s)	Data Confidence Assessment	Notes	Status of Development	2021 2022	2023	2024 2025	2026	2027	2028			2032		2035 - 2045 2046 - 2056	Distance from the VE array area (km)	Distance from the VE Offshore Export Cable Corridor (km)	Marine Geology, Oceanography and Physical Processes	Marine Water and Sediment Quality	Benthic and ntertidal Ecology	ish and Shellfish Ecology	Marine Mammal Ecology	Offshore Ornithology	Commercial Fisheries	Shipping and Navigation	Military and Civil Aviation	Seascape, Landscape and Visual	Offshore Archaeology and Cultural Heritage	nfrastrucutre and Other Marine Users
AMSTERDAM	World Ports Index (WPI)	being 'accurate' by the developer.	N/A	Active												183.1	190.9	d		d	d	a		d	a			c	d
ANTWERPEN	World Ports Index (WPI)	being 'accurate' by the developer.		Active												166.9	169.1	d		d	d	a		cl	a			c d	d
BOSTON	World Ports Index (WPI)	being 'accurate' by the developer.	N/A	Active												180.5	153.4	d		d	d	a		d	а			c d	d
BOULOGNE-SUR-MER	World Ports Index (WPI)	being 'accurate' by the developer.	N/A	Active												117.2	115.9	d		d	d	a		d	a			f	d
BRUGES	World Ports Index (WPI)	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.	N/A	Active												95.0	99.2	d		d	d	a		d	a			f	d
BRUXELLES	World Ports Index (WPI)	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.	N/A	Active												182.9	186.3	d		d	đ	a		а	a			f	d
CALAIS	World Ports Index (WPI)	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.	N/A	Active												88.1	88.9	d		d	d	a		a	a			f	d
CHATHAM DOCKS	World Ports Index (WPI)	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.	N/A	Active												110.7	64.1	d		d	d	a		a	a			f	d
COLCHESTER	World Ports Index (WPI)	being 'accurate' by the developer.	N/A	Active												78.8	21.9	d		d	d	a		a	a			f	d
DORDRECHT	World Ports Index (WPI)	being 'accurate' by the developer.	N/A	Active												162.66	169.56	d		d	d	a		d	а			f	d
DOVER HARBOR	World Ports Index (WPI)	being 'accurate' by the developer.		Active												86.0	76.7	d		d	d	a		ci	а			f	d
DUNKERQUE PORT EST	World Ports Index (WPI)	being 'accurate' by the developer.	N/A	Active												81.2	88.5	d		d	d	a		d	а			f	d
DUNKERQUE PORT OUEST	World Ports Index (WPI)	being 'accurate' by the developer.	N/A	Active												78.7	85.9	d		d	d	a		cl	a			f	d
EUROPOORT	World Ports Index (WPI)	being 'accurate' by the developer.	N/A	Active												124.9	132.1	d		d	d	a		ci	a			fd	d
FELIXSTOWE	World Ports Index (WPI)	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.	N/A	Active												88.1	88.9	d		d	d	d		d	d			f	
GHENT	World Ports Index (WPI)	being 'accurate' by the developer.	N/A	Active												134.7	138.5	d		d	d	a		d	а			f	d
GRAVELINES	World Ports Index (WPI)	being 'accurate' by the developer.	N/A	Active												83.4	87.5	cl		d	ci	a		d	8			f	d
GRAVESEND	World Ports Index (WPI)	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.	N/A	Active												121.0	70.4	d		d	d	a		d	a			f	d



Table 2: Port	s and Harbo	urs					Co	nstructio	on Period	(red out)	ine deno	otes Five	- Estuarie	os offshr	ore const	truction	period)															
Port	Data Source(s)	Data Confidence Assessment	Notes	Status of Development	2021	2022	2023	2024	2026	2027	2028	2029	2030	2031		2033		2035 - 2045 2046 - 2056	∾ fro	stance om the VE ray area m)		Marine Geology, Oceanography and Physical Processes	Marine Water and Sediment Quality	Benthic and tertidal Ecology	ish and Shellfish Ecology	Marine Mammal Ecology	Offshore Ornithology	Commercial Fisheries	Shipping and Navigation	Military and Civil Aviation	Seascape, Landscape and Visual	Offshore Archaeology and Cultural Heritage Infrastrucutre and Other Marine Users
GREAT YARMOUTH	World Ports Index (WPI)	being 'accurate' by the developer.	N/A	Active															74	.3	81.2	d	2 07	d	d	a		d	a			f d
HARWICH	World Ports Index (WPI)	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.	N/A	Active															55	i.1	13.2	d		d	d	a		a	а			f d
HOEK VAN HOLLAND	World Ports Index (WPI)	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.	N/A	Active															12	6.0	133.2	d		d	d	a		d	a			fd
IJMUIDEN	World Ports Index (WPI)	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.	N/A	Active															16	5.4	173.2	d		d	d	a		d	a			f d
IPSWICH	World Ports Index (WPI)	High - Third party project details published in the public	N/A	Active															64	.6	25.8	d		d	d	a		a	a			f d
KING'S LYNN	World Ports Index (WPI)	High - Third party project details published in the public	N/A	Active															14	3.7	118.1	d		d	d	a		d	a			f d
LITTLEHAMPTON HARBOUR	World Ports Index (WPI)	High - Third party project details published in the public	NA	Active															20	19.6	166.3	d		d	d	a		d	a			f d
LONDON	World Ports Index (WPI)	High - Third party project details published in the public	NA	Active															15	0.0	95.6	d		d	d	a		d	a			f d
LOWESTOFT	World Ports Index (WPI)	High - Third party project details published in the public	NA	Active															60	0.1	67.3	d		d	d	a		d	a			f d
MAASSLUIS	World Ports Index (WPI)	High - Third party project details published in the public	N/A	Active															13	4.2	141.3	d		d	d	a		d	a			f d
NEWHAVEN HARBOUR	World Ports Index (WPI)	High - Third party project details published in the public	N/A	Active															17	5.9	139.4	d		d	d	a		d	a			f d
NIEUWPOORT	World Ports Index (WPI)	High - Third party project details published in the public		Active															83	5.0	88.9	d		d	d	a		d	a			f d
OOSTENDE	World Ports Index (WPI)	High - Third party project details published in the public	N/A	Active															80	1.3	85.4	d		d	d	a		d	a			f d
PORTSMOUTH HARBOUF	R World Ports Index (WPI)	High - Third party project details published in the public	N/A	Active															24	3.6	196.0	d		d	d	a		d	a			f d
RAMSGATE	World Ports Index (WPI)	High - Third party project details published in the public	N/A	Active															63	1.6	52.9	d		d	d	a		d	a			f d
ROTTERDAM	World Ports Index (WPI)	High - Third party project details published in the public	N/A	Active															15	60.3	157.4	d		d	d	a		d	a			f d
RYE HARBOUR	World Ports Index (WPI)	High - Third party project details published in the public	N/A	Active															12	7.2	101.7	d		d	d	a		d	a			f d
SCHEVENINGEN	World Ports Index (WPI)	High - Third party project details published in the public	N/A	Active															13	5.7	143.2	d		d	d	a		d	a			f d
SCHIEDAM	World Ports Index (WPI)	High - Third party project details published in the public	N/A	Active															14	4.6	151.7	d		d	d	a		d	a			f d
SHEERNESS	World Ports Index (WPI)	High - Third party project details published in the public	N/A	Active															95	i.8	50.6	d		d	d	a		d	a			f d



Table 2: Por	ts and Harboi	urs																													
							Con	struction	Period (r	red outlir	ne denote	s Five Est	uaries of	fshore cor	struction	period)															
Port	Data Source(s)	Data Confidence Assessment	Notes	Status of Development	2021	2022	2023 2024	2025	2026	2027	2028	2029	2031	2032	2033	2034 2035 - 2045	2046 - 2056	2057 - 2067	Distance from the VE array area (km)	Distance from the VE Offshore Export Cable Corridor (km)	Marine Geology, Oceanography and Physical Processes	Marine Water and Sediment Quality	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammal Ecology	Offshore Ornithology	Commercial Fisheries	Shipping and Navigation	Military and Civil Aviation	Seascape, Landscape and Visual	Offshore Archaeology and Cultural Heritage Infrastrucutre and Other Marine Users
SHOREHAM HARBOUR	World Ports Index (WPI)	being 'accurate' by the developer.	N/A	Active															190.8	149.7	d		d	d	a		d	a			f d
TERNEUZEN	World Ports Index (WPI)	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.	N/A	Active															123.7	126.0	d		d	d	a		d	а			fd
THAMESPORT	World Ports Index (WPI)	being 'accurate' by the developer.	N/A	Active															99.7	54.3	d		d	d	a		d	a			f d
VLAARDINGEN	World Ports Index (WPI)	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.	N/A	Active															141.2	148.3	d		d	d	a		d	a			f d
VLISSINGEN	World Ports Index (WPI)	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.	N/A	Active															105.5	107.6	d		d	d	a		d	a			f d
WHITSTABLE	World Ports Index (WPI)	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.	N/A	Active															82.1	50.2	d		d	d	a		d	a			f d
ZAANDAM	World Ports Index (WPI)	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.	N/A	Active															180.5	188.4	d		d	d	a		d	a			fd
ZEEBRUGGE	World Ports Index (WPI)	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.	N/A	Active															87.1	90.9	d		d	d	a		d	a			fd



Table 9: Onshore Deve	elopments	3						Co	nstruction	Period (red o	outline denot	tes Five	Estuaries o	nshore const	ruction peri	od)								
Project/Planning Application	Data Source(s)	Data Confidence Assessment	Notes	Status of Development	Date of Last Update (Status)	2017	2018	2019	2021	2022	2023 2024	2025	2026	2027	2029	2031	2032	2033	2035 - 2045	2046-2056 2057-2067	Approximate Distance from the VE RLB (km)	ГЛА	Socioeconomics, Tourism and Recreation	Onshore biodiversity & nat cons
Ardleigh Road Solar Farm development proposal	Solar Farm Developer	Low	This project is at an early stage of development (currently at a proposal stage-not in planning) and consequently has limited projec information. The proposal is located at Land South of Ardleigh Road, Little Bromley, Tendring, Essex, CO11 2QA.	t Proposal (not in planning)	14 February 202	4																d	d	d
				Decision stage. The Examining Authority issued a Recommendation Report to the Secretary of State on 12 October 2023. The Secretary of State has three months in which																	13.9	d	d	d
A12 Chelmsford to A120 Widening Scheme	PINS	High	Widening of the A12 between junction 19 and junction 25 A new highway crossing of Lake Lothing, Lowestoft, connecting Riverside Road to the south of Lake Lothing with Peto Way to the	to issue a decision.	12 January 202	4															76.0	d	d	d
Lake Lothing Third Crossing	PNS	High	north of Lake Lothing Proposal to reinforce the 400kV high voltage power network in East Anglia to include a new 400kV connection substation in the Tendring		30 April 202																0.0	d	d	d
Norwich to Tilbury (formerly East Anglia GREEN)	PNS	High	district	Pre-application	06 September 202														T		42.0	d	d	d
East Anglia ONE North Offshore Windfarm Oikos Marine & South Side Development	PINS	High	Offshore windfarm off the coast of East Anglia The alteration of existing harbour facilities by the installation of additional import and export infrastructure and equipment on two of the Terminal's jetties.	Approved Pre-application. The application is expected to be submitted to the Planning Inspectorate Q4 2024.	31 March 202	2															54.6	d	d	d
Bradwell B new nuclear power station	PINS	High	A new nuclear power station capable of generating up to 2.2GW of electricity	Pre-application. The application																	19.1	d	d	d
Rivenhall IWMF and Energy Centre	PINS	liinh	The Rivenhall Integrated Waste Management Facility (IWMF) and Energy Centre development is for extension to a generating station	Pre-application. The application is expected to be submitted to the Planning Inspectorate Q4	N/A																26.2	d	d	d
LionLink Multi-Purpose Interconnector	PINS	High	LionLink Multi-Purpose Interconnector (MPI) is a proposed electricity link between Great Britain and the Netherlands.	The application is expected to be submitted to the Planning Inspectorate in Q4 2024.	N/A																41.3	d	d	d
	PINS	High	A photovoltaic array generating station, co-located with battery storage, together with grid connection infrastructure.	Approved	26 June 202	3															34.3	d	d	d
			Proposed energy wind farm, located across East Cambridgeshire and	Decision stage. The Examining Authority issued a Recommendation Report to the Secretary of State on 28 June 2023. The Secretary of State house three months in which to icsue																	54.0	d	đ	d
Sunnica Energy Farm	PINS	High	West Suffolk Proposed second Interconnector between Great Britain and	decision. Pre-application stage. The application is expected to be submitted to the Planning	N/A														┢		41.2	d	d	d
Nautilus Interconnector North Falls Offshore Wind Farm	PINS	High High	Belgium. Onshore cable route thought be Tendring, as per Scoping	Inspectorate in 2024. Scoping Pre-application stage. The application is expected to be submitted to the Planning Inspectorate Q3/Q4 2023. Scoping	N/A N/A																0.0	d	d	c
East Anglia TWO Offshore Windfarm	PINS	High	Suffolk landfall but potential resource / workforce / visual conflict	Approved	31 March 202	2															18.8	d	d	d
The Sizewell C Project	PINS	High	East Suffolk nuclear power plant	Approved	20 July 202	2															33.9	d	d	d



Table 9: Onshore Deve	lopments							Cons	truction Per	iod (red outl	ine denot	tes Five Es	tuaries ons	shore co	onstruction	n period)									
Project/Planning Application	Data Source(s)	Data Confidence Assessment	Notes	Status of Development	Date of Last Update (Status)	2017	2018	2020	2021	2022	2024	2025	2026	2027	2028	2030	2031	2032	2034	2035 - 2045	2046-2056 2057-2067	Approximate Distance from the VE RLB (km)	ΓΛΙΑ	Socioeconomics, Tourism and Recreation	Onshore biodiversity & nat cons
5ea Link	PINS	High	Substation in Friston, East Sussex. Constructing a new offshore HVDC cable between Suffolk and Kent.	Pre-application stage. The application is expected to be submitted to the Planning Inspectorate Q3 2024.	N/A																	41.8	d	d	ci
			Construction of a new 400kV double circuit network reinforcement of c.27km, including new lattice towers, an element of																			11.8	d	d	d
Bramford to Twinstead 23/01196/FUL Mixed use tourist and residential	PINS	High	undergrounding, and associated development Mixed use tourist and residential development of retirement living lodges with an ancillary social hub, detached farmstead houses, and holiday lodges along with separate communal buildings providing dining, leisure and recreation facilities and ancillary activity uses such as glamping, a multi-use games area, events space and nature		N/A																	9.3	d	d	d
development of retirement living lodges Proposed erection of 2no. holiday lodges, 12no. shepherds huts, 12no. glamping pods, extension to	TDC	Medium	play areas with associated infrastructure works.	Awaiting decision	11 September 202	23																	d	d	d
existing car park and associated road ways and parking, along with a woodland walk	TDC	Medium		Awaiting Decision	01 November 202	23							+							$\vdash$					
23/01221/OUT Outline planning application (Access to be considered) for the erection of up to 20 single storey dwellings with new vehicular access, open space and woodland wak.	TDC	Medium		Awaiting decision	07 November 202	23																	d	d	d
23/01033/DETAIL Reserved Matters application for a new business park	трс	Medium	Reserved Matters Application for Access, Appearance, Landscaping, Layout and Scale following Outline Planning Permission 19/01939/OUT (for a business park development comprising of B1, B2 and B8 storage, the construction of a new internal access from the existing access road, relocation of the existing temporary quarry office to a new building together with associated car / cycle parking)		01 August 202	23																4.6	d	d	d
23/00992/DETAIL Reserved Matters Application for 72 dwellings	TDC	Medium	Reserved matters (access, appearance, landscaping, layout and scale) for new access road and the erection of 72 dwellings and associated works following the grant of outline planning permission 18/00767/OUT		28 July 202																	3.2	d	d	d
23/01001/NACON Construction of residential development	тос	Medium	Construction of residential development (Use Class C3), access, landscaping, public open space, and associated infrastructure works Resubmission of 210965 (115 units)	Approved 28 Sep 2023	18 July 202	23																5.8	d	d	d
23/00709/CMTR Continuation of Extraction of 3.8 million tonnes of sand and gravel	TDC	Medium	Continuation of Extraction of 3.8 million tonnes of sand and gravel as an easterly extension to the existing Wivenhoe Quarry, erection of sand and gravel processing plant and ancillary facilities, new vehicular access onto the B1027 Brightlingsea Road, and restoration to agriculture and low-level water-based nature conservation habitats, lowland meadow, woodland planting and hedgerow enhancement using approximately 1.2 million cubic metres of imported inert waste material		29 June 202	23																6.0	d	d	C
22/01475/FUL Proposed installation of a Wheel Lathe Facility (WLF)	трс	Medium	Proposed installation of a Wheel Lathe Facility (WLF); depot building to house the wheel lathe facilities and a maintenance pit; Construction of one 400 metre line of new rail track to facilitate access of 250 metre trains; Minor modifications to overhead line equipment and other ground-based rail systems; New and improved fencing and vehicular gates to be installed and existing access off Oxford Road is to be utilized	5	25 April 202																	3.5	đ	d	d
22/01920/DETAIL Reserved matters application for 42 esidential units		Medium	the demolition of the existing redundant factory with the erection or 42 residential units on the site, considering details of appearance, landscaping, layout and scale, pursuant to outline application 18/0/2109/OUT, approved on appeal under APP/P1560/W/20/3246908 and subsequent S73 application 23/00242/VOC.		03 April 202																	8.3	d	d	d
22/01467/NACON Solar farm and associated nfrastructure	TDC	Medium	Construction and operation of a solar photovoltaic (PV) farm and associated infrastructure, including batteries, inverters, security cameras, fencing, access tracks and landscaping and cable run.	Approved by another Authority on 20 Mar 2023																		16.2	d	d	d



Table 9: Onshore Deve	lopments							Co	nstructio	n Period (ree	d outline o	denotes F	ive Estu	aries onsh	iore cons	truction p	eriod)									
Project/Planning Application	Data Source(s)	Data Confidence Assessment	Notes	Status of Development	Date of Last Update (Status)	2017	2018 2019 2019	2020	2021	2022	2023	2024	2025	2026 2027	2028	2029	2030	2032	2033	2034 2035 - 2045	2046-2056	2057-2067	Approximate Distance from the VE RLB (km)	ΓΛΙΑ	Socioeconomics, Tourism and Recreation	Onshore biodiversity & nat cons
			Proposed erection of 58 no. dwellings (including 18 Affordable Dwellings) complete with estate roads, public open space and																				2.0	d	d	d
23/00365/FUL Proposed erection of 58 no. dwellings	TDC	Medium	garaging.	Awaiting decision	10 March 202	3								-						_						
22/02117/FUL Proposed solar photovoltaic farm	TDC	Medium	Planning application at land south of Thorpe-le-Soken	Approved	17 February 202	3																	0.6	d	d	
22/02076/FUL 86 No residential dwellings to the north of Clacton Road including new access and 40 No residential dwellings to the south of Clacton Road using existing access.	TDC	Medium	Full planning permission for 86 No residential dwellings to the north of Clacton Road including new access, 40 No residential dwellings to the south of Clacton Road using existing access. Construction of market field grows use Class E to include multi use building (3375qm), reception office (2005qm), workshop (2225qm), 46 space car park, ancillary landscaping and buildings Outline planning permission (access only) for mixed use commercial Space 1.12ha up to 2500sqm. (The proposal constitutes a departure from the Development Plan)	Awaiting decision	11 January 202	3																	4.1	d	d	i i
21/02006/CMTR Continuation of the construction of an agricultural reservoir involving the extraction of			Continuation of the construction of an agricultural reservoir	Determination approved by																			4.6	d	d	d
minerals and the removal of surplus soils	TDC	Medium	involving the extraction of minerals and the removal of surplus soils Full planning permission for the erection of 154 dwellings, informal recreation space, a local area of play and associated development	another Authority	05 December 202	2														╡			4.4	d	d	d
22/01818/FUL Proposed development of 154 dwellings	TDC	Medium	(revised and new information received dated 21 March 2023 showing new and addition landscaping/layout clarifications) - consultation).	Awaiting decision	25 November 202	2																				
22/01746/FUL Proposed development for 16 residential dwellings	TDC	Medium	Proposed development for 16 residential dwellings and associated infrastructure.	Awaiting decision	14 November 202	2																	1.8	d	d	1
21/02070/FUL Construction and operation of a 50MW Battery Energy Storage System	TDC	Medium	Related infrastructure with associated access, landscaping and drainage	Approved	28 September 202	2																	1.0	d	d	•
22/00979/DETAIL Reserved matters application for 280 homes, including offices, land for a new primary school, railway footbridge, attenuation basins, open space, play equipment and associated infrastructure	TDC	Medium	Pursuant to outline planning consent 19/00524/OUT	Awaiting decision	26 September 202 24 June 202																		3.1	d	d	c
22/00556/FUL Change of use of land for the siting of 8 no. residential park homes	TDC	Medium	Planning application at Sacketts Grove Residential Park situated on Jaywick Lane, Clacton on Sea.	Awaiting decision	28 March 202	2																	6.3	d	d	d
20/00179/FUL Detailed planning application for residential development to provide 50 no. residential dwellings	TDC	Medium	Includes associated car parking, cycle parking, public open space and pedestrian/cycle infrastructure, formation of pedestrian and cycle links	Approved	18 January 202	2																	2.2	d	d	đ
21/00197/DETAIL Reserved Matters application for 485 dwellings	TDC	Medium	Reserved matters application with details of appearance, landscaping, layout and scale pursuant to the residential element of outline permission (1/7)01181/OUT - Approved under appeal APP/P1560/W/19/3220201 and separately 21/00213/OUT) including up to 485 dwellings, up to 2 hectares of employment land (A2/A3/B1/B2; B8; D1 uses), with associated public open space and infrastructure	Approval - Reserved Matters/Detailed 23 Dec 2021	23 December 202	1																	2.4	d	đ	
21/00104/FUL 18 new build 2,3 and 4 bed homes will be provided within 1.23 hectares	TDC	Medium	Proposal to re-design the Eastern Parcel of a previously approved development, ref: 20/00748/FUL	Approved	08 June 202	1																	4.0	d	d	d
20/00020/REFUSE Demolition of existing redundant factory and outline application with all matters reserved with the exception of access for up to 42 residential units	TDC	Medium	Initially refused but appeal allowed	Appeal allowed	05 May 202																		2.4	d	d	d
		Medium	Unspecified capacity. Located at Thorpe Le Soken. No documents available	EIA not required	09 April 202																		0.6	d	d	0
19/00188/FUL development of retirement living apartments (36 units), detached farmstead houses (5 units) and a lodge or club house serving a number of timber holiday lodges (104 units)	TDC	Medium	ancillary activities such as glamping, toilet facilities and play areas which will be the main focus of the development	Approved	11 March 202																		9.8	d	d	d



Table 9: Onshore Deve	lopments	;					c	onstruction	Period (red o	utline deno	tes Five E	Estuaries or	ishore constru	iction perio	od)							
Project/Planning Application	Data Source(s)	Data Confidence Assessment	Notes	Status of Development	Date of Last Update (Status)	2017 2018	2019	2020	2022	2023	2025	2026	2027	2029	2031	2032	2034	2035 - 2045	2046-2056 2057-2067	Approximate Distance from the VE RLB (km)	LVIA Socioeconomics, Tourism	and Recreation Onshore biodiversity & nat
																				2.7	d d	d
20/01130/FUL Erection of 122no. residential units	TDC	Medium	Includes roads and public open space. No decision notice including up to 30% as affordable housing and all necessary access roads (Outline), All associated amenity space, landscaping, parking, servicing, utilities, footpath and cycle links, on-site drainage, and	Awaiting Decision	19 August 2020																d d	d
development including: 67 dwellings 19/01945/DETAIL Approval of reserved matters for 200 dwellings	TDC	Medium	Infrastructure works including gas and electricity apparatus Approval of reserved matters (relating to appearance, landscaping, layout and scale) for 200 dwellings pursuant to the residential development referred to within condition 31 of planning permission 18/01616/0UT at Brook Park West.	Approval Approved	21 January 202															13.2	d d	d
2 17/01338/FUL 20 apartments and a bar/restaurant together with a 61 bed hotel to rear with ancillary parking.	TDC	Medium	Demolition of Cliff Hotel, function hall and ancillary outbuildings. Provision of a new 'Art Deco' style apartment block consisting of basement parking,	Approved	13 November 2019															10.3	d d	d
18/00367/FUL Erection of 84 dwellings	TDC	Medium	with means of access, parking, garaging, associated landscaping and public open space provision	Approved	16 September 2019															6.3	d d	d
17/01988/FUL Construction of 41 dwellings for use by esidents over 55 years, including a mix of 1 and 2 beo partments and 2 bed dwellinghouses		Medium	Includes associated car parking and landscaping.	Approved	11 June 2019															1.4	d d	d
7/00571/FUL A two storey enabled living facility roviding 16 apartments for profoundly disabled dults	TDC	Medium	No documents or data	Approved	11 August 201															3.2	d d	d
232193 Construction and operation of a micro energy storage facility.	CBC	Medium	N/A	Awaiting Decision	15 September 202:															5.6	d d	d
231640 Creation of 50 no. two, three, four and five bedroom houses	СВС	Medium	Creation of 50 no. two, three, four and five bedroom houses and associated infrastructure, plus public open space in the centre of the site and access works on Hall Road.	Awaiting Decision	10 August 2023															11.8	d d	d
231600 Construction of 70 dwellings including 24 iffordable homes	СВС	Medium	Construction of of 70 dwellings including 24 affordable homes (Rural Exception Site Local Letting homes, Affordable Rent Homes and Shared Ownership Homes), garages, parking, vehicular / cycle and pedestrian accesses, public open space, landscaping, drainage	Awaiting Decision	04 July 202:															13.1	d d	d
231297 Application for the development of the site to rovide 203 residential units		Medium	Redevelopment of the site to provide 203 residential units and approximately 160sqm of commercial floor space with associated access, public open space, landscaping, car and cycle parking, and associated infrastructure.	Awaiting Decision	03 July 202:															8.8	d d	d
31485 ESS/34/23/COL Proposed prior extraction of and as enabling works with a future expansion of folchester Zoo	СВС	Medium	Proposed prior extraction of sand as enabling works with a future expansion of Colchester Zoo including the extraction of 500,000 tonnes of sand	Awaiting Decision	16 June 2023															13.3	d d	d
231368 Outline planning application for 200 no. esidential dwellings	СВС	Medium	Outline planning application for 200 no. residential dwellings, a new vehicular access on to Colchester Road (B1022), community land, allotments, public open space, and associated works. All matter reserved.	Awaiting Decision	06 June 202															21.2	d d	d
231153 Application for approval of reserved matters ollowing outline approval 212646	СВС	Medium	Application for approval of reserved matters following outline approval 212646 - Erection of 30 dwellings and 1ha of public open space and access from Newbarn Road.	Awaiting Decision	11 May 2023															18.6	d d	d
230165 Listed building application for the construction of 20 residential units	СВС	Medium	Listed building application for the construction of 20 residential units together with parking, landscaping & associated works, including refurbishment of the existing Grade II Listed Granary Barn.	Approved	23 March 202															7.5	d d	d
130625 Outline planning application for 100 no. Jwellings	СВС	Medium	Includes new access and A134 crossings, land for allotments, provision of a Scout and Girl Guiding Hut with associated car park, public open space and associated works. All Matter Reserved, Except Access.	Awaiting Decision	13 March 2023															9.0	d d	d
230326 Outline planning application for development of 42 residential apartments	СВС	Medium	Includes ground floor commercial and public open space.	Awaiting Decision	13 February 2023															7.1	d d	d



Table 9: Onshore Deve	lopments	;						C	onstructio	on Period	l (red outlir	ne denote	es Five Es	stuaries or	nshore co	onstructio	n period)									
Project/Planning Application	Data Source(s)	Data Confidence Assessment	Notes	Status of Development	Date of Last Update (Status)	2017	2018	2019	2021	2022	2023	2024	2025	2026	2027	2028	2030	2031	2032	2034	2035 - 2045	2046-2056	Approximate Distance from the VE RLB (km)	LVIA	Socioeconomics, Tourism and Recreation	Onshore biodiversity & nat cons
221111 The construction of 17 dwellings	CBC	Medium	N/A	Awaiting Decision	02 February 202:	3																	14.0 c		d	d
223122 Outline application with all matters reserved for development of site for 29 dwellings	CBC		Outline application with all matters reserved for development of sit for 29 dwellings (mix of housing types)	e Awaiting Decision	20 December 2022	2																	21.4 c		d	d
222964 ESS/104/22/COL Expansion of existing landfill compound	CBC		Expansion of the existing landfill gas power station compound, including the installation of an extra engine	Awaiting Decision	28 November 2022	2																	14.0 c		d	d
221033 Energy Facility and associated equipment.	CBC		Construction and operation of an Urban Reserve Flexible Energy Facility and associated equipment.	Approved	28 October 2022	2																	5.5 c		d	d





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