Vattenfall Wind Power Ltd

Thanet Extension Offshore Wind Farm

Environmental Statement Volume 1

Annex 3-1: Cumulative Effects Assessment

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Vattenfall Wind Power Ltd

Thanet Extension Offshore Wind Farm

Volume 1

Annex 3-1: Cumulative Effects Assessment

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1 Cumulative Effects Assessment

1.1 Introduction

1.1.1 This technical annex provides the methodologies of relevance to the consideration of inter-related effects, and Cumulative Effects Assessment (CEA) of relevance to the Thanet Extension Offshore Wind Farm (Thanet Extension) Environmental Impact Assessment (EIA). The annex further presents those long lists and short lists of Plans and Projects for consideration within the cumulative effects. Projects and Plans that went into planning post May 2018 have not be considered in this application.

1.2 Objective of this Annex

1.2.1 The objective of this annex is to provide details on the proposed methodologies for each of the assessments and justification for the approach taken; the approach for cumulative impacts is based on the Planning Inspectorate (PINS) Advice Note 17: Cumulative Effects Assessment. The approach to the CEA is intended to be specific to Thanet Extension and takes account of the extensive knowledge of the environment and other development and activities in and around the Thanet Extension development area.

1.3 Legislation and Policy Context

1.3.1 The Planning Act 2008 (the 2008 Act) underpins the consenting regime for certain types of development, classed as Nationally Significant Infrastructure Projects (NSIPs). The Secretary of State (SoS) for the Department of Business, Energy and Industrial Strategy (BEIS) has confirmed that the Thanet Extension will require Development Consent under the 2008 Act. With respect to the 2008 Act, The Infrastructure Planning (Environmental Impact Assessment) Regulations (2017), implemented the requirements of the consolidated European Directive on EIA (2014/52/EU) into UK law.

1.3.2 The Overarching National Policy Statement (NPS) for Energy (EN-1) and the NPS for Renewable Energy Infrastructure (EN-3) both identify the need to address the maximum potential adverse impacts. Matters considered to affect the maximum adverse impact are topic impacts, inter-relationships between topics, and cumulative impacts. The maximum adverse scenario, or envelope, is termed the Rochdale Envelope.

1.3.3 PINS has produced 'Advice Note 9: Rochdale Envelope' (April 2012) setting out the views of PINS regarding how this approach should be used in the context of the Planning Act 2008.

1.3.4 The Rochdale Envelope approach is a well understood concept that involves ensuring that any EIA is based on assessing the realistic worst-case scenario where flexibility or a range of options is sought as part of the consent application.

1.3.5 It is important that the Rochdale Envelope is not only applied in terms of individual effects, but also for any cumulative and inter-related effects.

1.3.6 With respect to cumulative and inter-related effects, the April 2012 guidance states:

"The ES should not be a series of separate unrelated topic reports. The inter- relationship between aspects of the proposed development should be assessed and careful consideration should be given by the developer to explain how inter-relationships have been assessed in order to address the environmental impacts of the proposal as a whole. It need not necessarily follow that the maximum adverse impact in terms of any one topic impact would automatically result in the maximum potential impact when a number of topic impacts are considered collectively. In addition, individual impacts may not be significant but could become significant when their inter-relationship is assessed. It will be for the developer to demonstrate that the likely significant impacts of the project have been properly assessed."

1.3.7 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 cumulative and inter-related effects as well as individual effects.

1.3.8 PINS produced 'Advice Note 17: Cumulative Effects Assessment' (December 2015), which provides guidance on a staged process that can be used for cumulative effects assessments for NSIPs. The 2015 advice note detailed a four-step process that can be followed by developers and which has been applied here. The methodology is outlined in Section 1.7 Approach to Cumulative Effects Assessment below.

Marine Policy Context

1.3.9 The Government Marine Policy Statement sets out the need to address cumulative impacts or effects, i.e. 'When considering potential benefits and adverse effects, decision-makers should also consider any multiple and cumulative impacts of proposals, in the light of other projects and activities'.

1.4 Consultation and scoping

1.4.1 The cumulative effects of the area have been the subject of detailed discussion between regulators and Vattenfall Wind Power Limited (VWPL).

1.4.2 As part of the EIA for Thanet Extension, consultation has been undertaken with various statutory and non-statutory authorities, through the agreed Evidence Plan process (being used for the EIA process as well as for the Habitats Regulation Assessment (HRA)). A record of key areas of consultation is presented in full within the project Consultation Report (Document reference 5.1), to be published with the final application.

1.4.3 A summary of the responses relevant to the CEA in the Scoping Opinion are summarised in Table 1.1 below.

Table 1.1: Summary of responses relevant to the Cumulative Impact Assessment in the Scoping Opinion.

Date and consultation phase/type	Consultation and key issues raised	Section where provision is addressed
S42 Natural England January 2018	Natural England queried whether oil and gas pipelines have been considered in cumulative impact assessments. A request for the cumulative projects to be mapped.	Oil and gas pipelines have been considered, see Section 1.7 of this chapter, but for the majority of the study areas identified for the assessments, there is not this infrastructure present. The searches have been undertaken using the most up to date available information. Figure 1.2 presents all oil and gas projects, plans and activities within a 200 km radius as presented in Section 1.7.
S42 Agence Francaise pour la Biodiversite January 2018	Agence Francaise pour la Biodiversite Annex stated that “some effects are not likely to be significant in EIA terms in individual assessments, but could then have a greater significance when considered as cumulative aspects. We will recommend considering “minor” effects as potentially significant in EIA terms as well, in regards to potential cumulative, cross-border and inter-related effects. Therefore, they must be fully assessed in the Environmental Statement (ES)."	Section 1.7 of this chapter provides an overview of the cumulative impact assessment methodology undertaken for each of the ES chapters. The potential for inter-related effects, wherein multiple non-significant effects could result in a significant effect, is identified within each of the topics. Volume 2, Chapter 14: Inter-relationships presents the assessment of the identified potential inter-related effects. Note: the term ‘inter-relationships’ is an interchangeable term with intra-relationships, as sometimes referred to by other projects.
S42 Dover District Council January 2018	Dover District Council requested cumulative impacts and inter-related impacts are assessed for both onshore and offshore elements of the project. In addition, they requested the inclusion of re-powering the existing Thanet Offshore Wind Farm (TOWF).	A full list of all projects considered in the technical assessments is provided in Section 1.7 and in Table 1.6 and Table 1.7. The re-powering of the TOWF is not currently a planned project and therefore there is no available information to undertake a meaningful assessment. Therefore, this will not be considered in the EIA.

1.5 Definitions of Cumulative, Inter-related and In-combination effects for Thanet Extension

1.5.1 It is intended that the Environmental Statement (ES) will address the need to ensure that cumulative and inter-related effects are considered for both onshore and offshore elements of the proposed development in isolation and combination. This comprises the assessment of: multiple effects of more than one development (either wind or other infrastructure) on a single receptor; and multiple effects from individual topic areas of the Thanet Extension development on a single receptor.

1.5.2 Table 1.2 offers clarification of the terms cumulative, inter-related and in-combination to ensure definitions are consistent with PINS interpretations and applied consistently throughout this ES. The proposed approach to the assessment of cumulative, inter-related, transboundary, and in-combination effects will be built upon these definitions.

Table 1.2: Project Specific Effect Type Definitions

Term	Definition
Cumulative effects	Effects upon certain receptors from the Thanet Extension development when considered alongside other proposed developments and any other reasonably foreseeable projects. 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.
Trans-boundary effects	Effects upon the environment or receptors/interests of other European Economic Area (EEA) States. These effects may occur as a result of Thanet Extension alone or cumulatively with other projects in the wider area.
Inter-related effects	Multiple effects on the same receptor arising from the Thanet Extension development. These occur either where a single effect acts on a receptor over time to produce a potential additive effect or where a number of separate effects (for example habitat loss and increased suspended sediment concentrations, or noise and habitat disturbance) affect a single receptor (for example fish and shellfish, or onshore ornithology receptors).
In-combination effects	Applies to other plans or projects, in considering whether a plan or project either alone or in combination is likely to have a significant effect on the condition of a designated European site interest feature.

1.6 Approach to Inter-related Effects Assessment

1.6.1 The assessment of inter-related effects considers only those effects produced by the Thanet Extension development and not from other projects. The approach to inter-related effects assessment has been developed with specific regard to the PINS Rochdale Envelope advice note:

'inter-relationships consider impacts of the proposals on the same receptor. These occur where a number of separate impacts, (e.g. noise and air quality), affect a single receptor such as fauna.'

1.6.2 Potential inter-related effects are assessed through consideration of all effects on a receptor through an assessment of the scope of all effects on that receptor to interact, whether that be spatially or temporally, to result in inter-related impacts on a receptor (e.g. all effects on human amenity – noise and air quality, access, and traffic – these might be short term, temporary or transient effects or incorporate longer term effects).

1.6.3 The proposed approach for Thanet Extension is a two-step process; an initial step providing a summary of how topic/receptor chapters are inter-related and where different interactions may take place (Table 1.3), and a second step wherein a more detailed assessment is presented within the inter-related chapter (Table 1.4). This approach, as shown in Table 1.4, demonstrates where potential interactions may occur, resulting in an inter-related effect to a specific receptor, and where knock-on effects may occur.

1.6.4 It thereby incorporates the findings of the individual assessment chapters to describe potential additional effects that may be of greater significance than the isolated individual effects acting on the receptor. If there are additional effects from separately considered impacts acting together, these are considered qualitatively using professional judgement.

1.6.5 The proposed approach can be summarised via the following key steps:

- Identification of relevant receptors from effect sections undertaken for individual EIA topic areas;
- Identification of the impact source pathways that can affect the receptor and identification of the ES chapter where those pathways are described and assessed;
- Identification of potential effects on these receptor groups through a review of assessment sections; and
- Production of the inter-related effects assessment, utilising tables listing all potential effects on selected receptors during the construction, operational and decommissioning phases (example presented in Table 1.3).

1.6.6 For example, text within the fish and shellfish section may consider changes in suspended sediment concentration (SSC) as described in the physical environment chapter and also the potential change in available prey or in the distribution of prey that may be experienced by higher trophic levels such as marine mammals or commercial fisheries.

Examples of inter-related effects

1.6.7 Inter-related effects between fish and shellfish ecology are primarily expected with the following chapters:

- Physical Processes – changes in suspended sediment concentration (SSC) and sediment re-deposition are likely to indirectly impact on fish and shellfish species;

- Benthic Ecology – changes in seabed communities are likely to indirectly impact on fish and shellfish species;
- Marine Mammals – impacts on fish and shellfish species that are prey species to marine mammals are likely to indirectly impact on marine mammals through changes in availability or distribution of the prey species; and
- Commercial Fisheries – impacts on commercially important fish and shellfish species will likely have indirect effects on the fisheries that target them.

Table 1.3: Example Inter-related Effects Assessment Table (all cross-referencing for example only)

Inter-relationship	Section where addressed	Linked Chapter
Construction and Decommissioning		
Indirect impacts on Fish and Shellfish Ecology from increased suspended sediments	*e.g. Section X.X*	Source Impact: Chapter X Phys Processes, Chapter X Benthic and Intertidal Ecology Affected Receptor: Chapter X Marine Mammals and Chapter X Commercial Fisheries
Operation		
Indirect impacts on marine ecology and habitat from changes to physical processes	*e.g. Section X.X*	Source Impact: Chapter X Phys Processes, Chapter X Benthic and Intertidal Ecology Affected Receptor: Chapter X Marine Mammals, Chapter X, Commercial Fisheries
Indirect impacts on marine ecology from changes in human activity	*e.g. Section X.X*	Source Impact: Chapter X Commercial Fisheries Affected Receptor: Chapter X Offshore Ornithology, Chapter X Fish and Shellfish Ecology

1.6.8 Effects that have no impact are unlikely to have inter-related effects when combined with other impacts and therefore can be scoped out of the inter-related effects assessment. However, where impacts that have an impact significance of negligible or higher are identified, interactions may be of greater significance than the individual impacts in isolation; these are considered through professional judgment.

1.6.9 The table created for each chapter informs the development of the second step, the project wide assessment of inter-related effects. This is carried out through consideration of the relevant impacts, the parameters that affect each receptor, and the dependent chapters. This is presented in the Inter-related Effects Assessment chapter (Volume 2, Chapter 13), detailing the potential project-wide inter-related effects (Table 1.4).

Table 1.4: Example Assessment Table: Inter-related Impacts to Fish and Shellfish Ecology (all cross-referencing for example only)

Fish and Shellfish Ecology – Inter-related Effects					
Impacts type and phase	Source of impact	Nature of inter-related effect	Source chapter	Relevant chapters to be cross referenced	Mitigation
Increased suspended sediment, construction phase	Disturbance and mobilisation of seabed sediments as a result of cable installation	Impacts on behavior and survival of fish and shellfish	*e.g. Chapter X Physical processes*	*e.g. Chapter X and X Marine Mammals and Benthic Ecology*	No further mitigation measures have been identified as necessary as a result of inter-related effects on fish and shellfish.
	Temporary disturbance of seabed habitat resulting in increased SSCs and sediment re-deposition has potential to result in lethal and behavioural effects on fish and shellfish				
Loss of fish and shellfish habitat operation phase	Installation cables affecting the area available for foraging.	Impact on available seabed habitat for fish and shellfish	*e.g. Chapter X and X Physical Processes and Benthic Ecology*	*e.g. Chapter X and X Marine Mammals and Offshore Ornithology*	No further mitigation measures have been identified as necessary as a result of inter-related effects on fish and shellfish.
	The footprint of Triton Knoll Electrical System secondary protection/cable crossing material will result in a net loss of seabed and in a change in substrate type. This can result in impacts on fish and shellfish species associated to habitat loss particularly for species which are substrate specific (e.g. sandeels and herring)				
Impact of introduction of hard substrate on fish and shellfish, operation phase	Replacement of areas of the existing predominantly sandy or slightly gravelly biotopes with communities typical of harder substrates	Indirect impacts on fish and shellfish communities as a result of changes in the benthic assemblage	*e.g. Chapter X and X Physical Processes and Benthic Ecology*	*e.g. Chapter X and X, Marine Mammals and Offshore Ornithology*	No further mitigation measures have been identified as necessary as a result of inter-related effects on fish and shellfish.
	The introduction of hard substrate associated with cable protection material will result in a change in benthic communities having potential to indirectly impact fish and shellfish species. Fish and shellfish may be attracted as a result of increased feeding opportunities.				
Impacts on fish and shellfish ecology arising from the installation of Thanet Extension may affect the abundance or distribution of prey species for mammals and commercial fisheries. The associated impacts to mammals and commercial fisheries are considered in *e.g. Chapter X.X*. The overall magnitude of inter-related impacts is Low due to the localised nature of the effects on receptors that have a Low sensitivity due to high recovery rates and the overall effect is therefore of a N**egligible** significance.					

1.7 Approach to Cumulative Effects Assessment

1.7.1 Cumulative effects refer to effects upon receptors arising from the Thanet Extension when considered alongside all past (unless incorporated within the baseline), present or reasonably foreseeable projects, programmes or plans that results in an additive impact with any element (on- or offshore) of Thanet Extension. The assessment of cumulative effects arising as a result of the proposed development is required under the EIA regulations.

1.7.2 Previously, there was a lack of guidance for CEAs, and consequently, different projects had different methods for undertaking the assessments, with no agreed industry standard methodology. PINS have now published 'Advice Note 17: Cumulative Effect Assessment', which provides guidance on a staged process that can be used for CEAs for NSIPs. The approach to cumulative assessment for Thanet Extension also takes into account the Cumulative Impacts Assessment Guidelines issued by RenewableUK and the PINS 'Advice Note 9: Rochdale Envelope'.

1.7.3 The PINS CEA advice note outlines a 4 stage process that the CEA should follow which is presented in Table 1.5.

Table 1.5: Stages of the CEA Process

CEA Stage	Activity
Stage 1 - Establish the project's Zone of Influence (ZOI) and identify a long list of 'other development'	The Project undertakes a desk study to identify the zone of influence (ZOI) for the development for the topics that are proposed to be scoped into the EIA. The ZOI analysis must be documented (i.e. table of topics and ZOI), with supporting GIS. The long list 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 ZOI. Information on each project (county, development type, when occurring, etc.) is documented in a matrix (Matrix 1), 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). The project then consults with the relevant planning authority(ies) and statutory consultees regarding the long list. Ideally this is carried out prior to the submission of the Scoping Report.
Stage 2 – Identify shortlist of 'other development' for the CEA	PINS have provided inclusion/exclusion threshold criteria, 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. From this assessment, a shortlist of 'other developments' to be included in the CEA is produced (Matrix 2). Documented information on each of the 'other development' is likely to be high level at this stage, outlining the key issues to take forward. 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.
Stage 3 – Information gathering	All available information on the 'other developments' within the shortlist generated at Stage 2 is collated to inform the CEA. This information is ideally included within Matrix 2.
Stage 4 – Assessment	The project reviews each of the 'other development' in turn to assess whether cumulative effects may arise (documented in Matrix 2). Matrix 2 should also include 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 associated mitigation plans). While not to be used as a means to shift the burden of mitigation, it may be appropriate to ascertain the contribution of each development to the effect (done via professional judgement). However, this may be useful during the consultation with other developers to identify means to jointly address mitigation of significance adverse cumulative effects and means to ensure delivery.

Long List

1.7.4 The first stage of the CEA is to produce a 'long list' of relevant projects, plans and activities happening within a large study around Thanet Extension. This encompassed a large part of the southern North Sea and into the English Channel (offshore - Table 1.6) and part of Kent (onshore - Table 1.7). The long list includes the details of operational or planned projects, plans and activities within the study area and includes those in the UK and adjoining international jurisdictions.

Offshore

1.7.5 The long list, seaward of Mean High Water Springs (MHWS), has been produced based on the scale of project, plans and activities, and the potential for these to produce cumulative effects with Thanet Extension. Any projects considered for planning post May 2018 have not been considered. The projects, plans and activities were identified within search area as outlined in Table 1.6.

Table 1.6: CEA Offshore Search Area Extents

Project, Plan or Activity Type	CEA Search Area Extent
Aggregate and disposal	Up to 50 km from the Thanet Extension array area and offshore export cable corridor
Offshore energy	Up to 500 km from the Thanet Extension array area and offshore export cable corridor
Commercial fisheries	Up to 200 km from the Thanet Extension array area and offshore export cable corridor
Oil and gas	Up to 200 km from the Thanet Extension array area and offshore export cable corridor
Cables and pipelines	Up to 50 km from the Thanet Extension array area and offshore export cable corridor
Shipping	Up to 200 km from the Thanet Extension array area and offshore export cable corridor
Military, aviation and radar	Up to 200 km from the Thanet Extension array area and offshore export cable corridor
Coastal	Up to 200 km from the Thanet Extension array area and offshore export cable corridor

1.7.6 All projects, plans and activities within the search areas as defined above in Table 1.6 were identified through a desktop study using the following data sources:

- PINS website;
- The Crown Estate website;
- European Marine Observation and Data Network (EMODnet) data;
- Oil and Gas UK website;
- Netherlands Oil and Gas website (NLOG); and
- Developers and project proponents' websites.

1.7.7 All offshore projects, plans and activities considered within the CEA are presented in Figure 1.1 to Figure 1.4 below.

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THANET EXTENSION OFFSHORE WIND FARM

Figure 1.1
Offshore wind projects and plans considered in the CEA

Legend

- Offshore Red Line Boundary
- 50km Buffer Rings

Offshore Wind Farms

- Active/In Operation
- Consented
- In Planning
- Pre-planning Application
- Under Construction
- Other Offshore Wind Farms

Datum: ETRS 1989
Projection: UTM31N

1:3,000,000 0 30 60 km 0 10 20 nm

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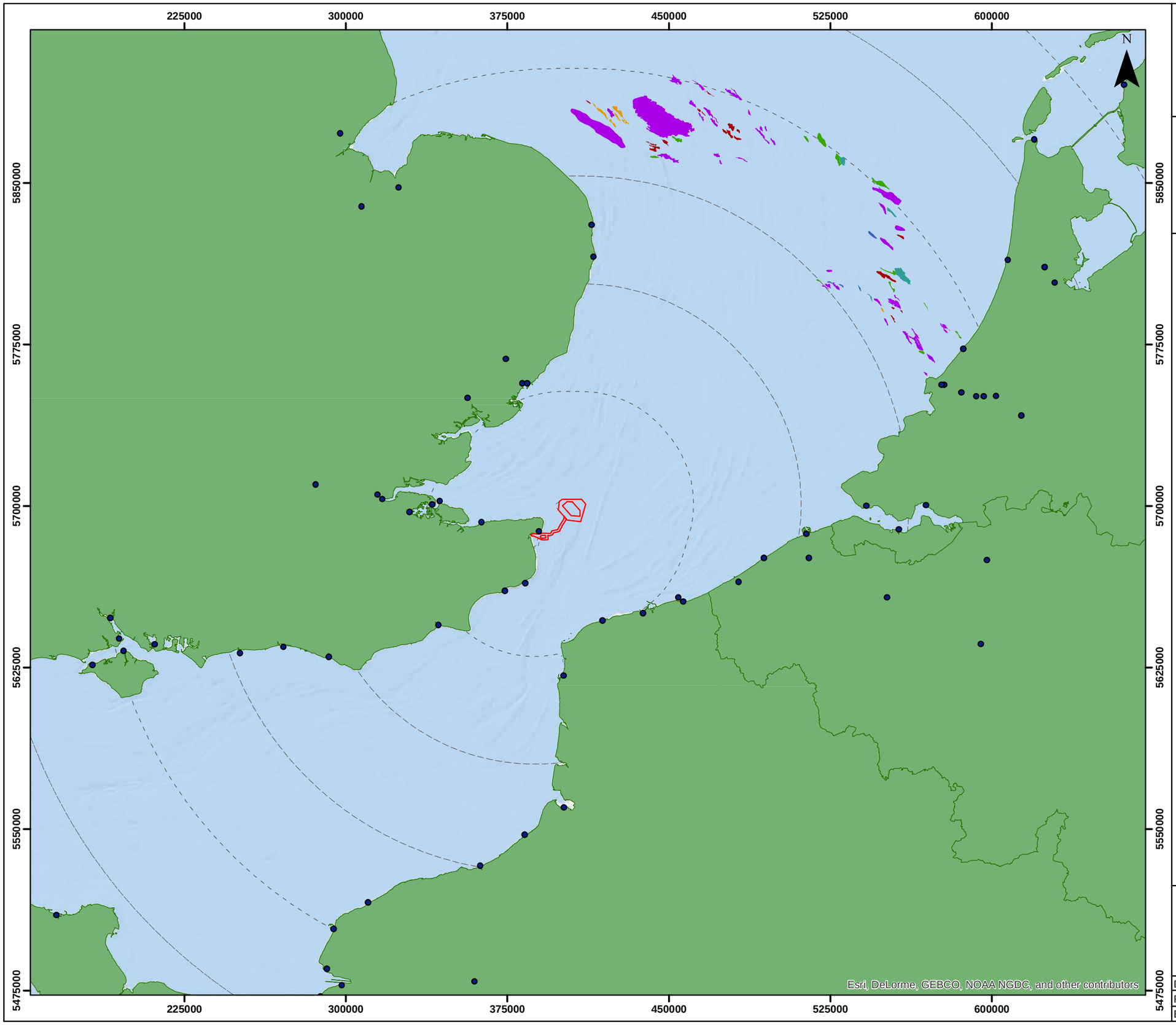
Rev	0.1	Date	29/05/2018
By	LS	Layout	N/A

Figure 1.1



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THANET EXTENSION OFFSHORE WIND FARM

Figure 1.2
Oil and Gas projects and shipping activity considered in the CEA

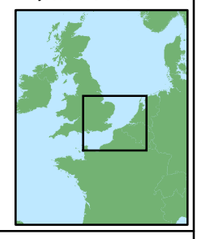
Legend

- Offshore Red Line Boundary

Oil & Gas Locations

- Abandoned
- Producing
- Production ceased
- Suspended
- Undeveloped, production start expected within 5 years
- Undeveloped, production start unknown
- World Port
- 50km Buffer Rings

Datum: ETRS 1989
Projection: UTM31N



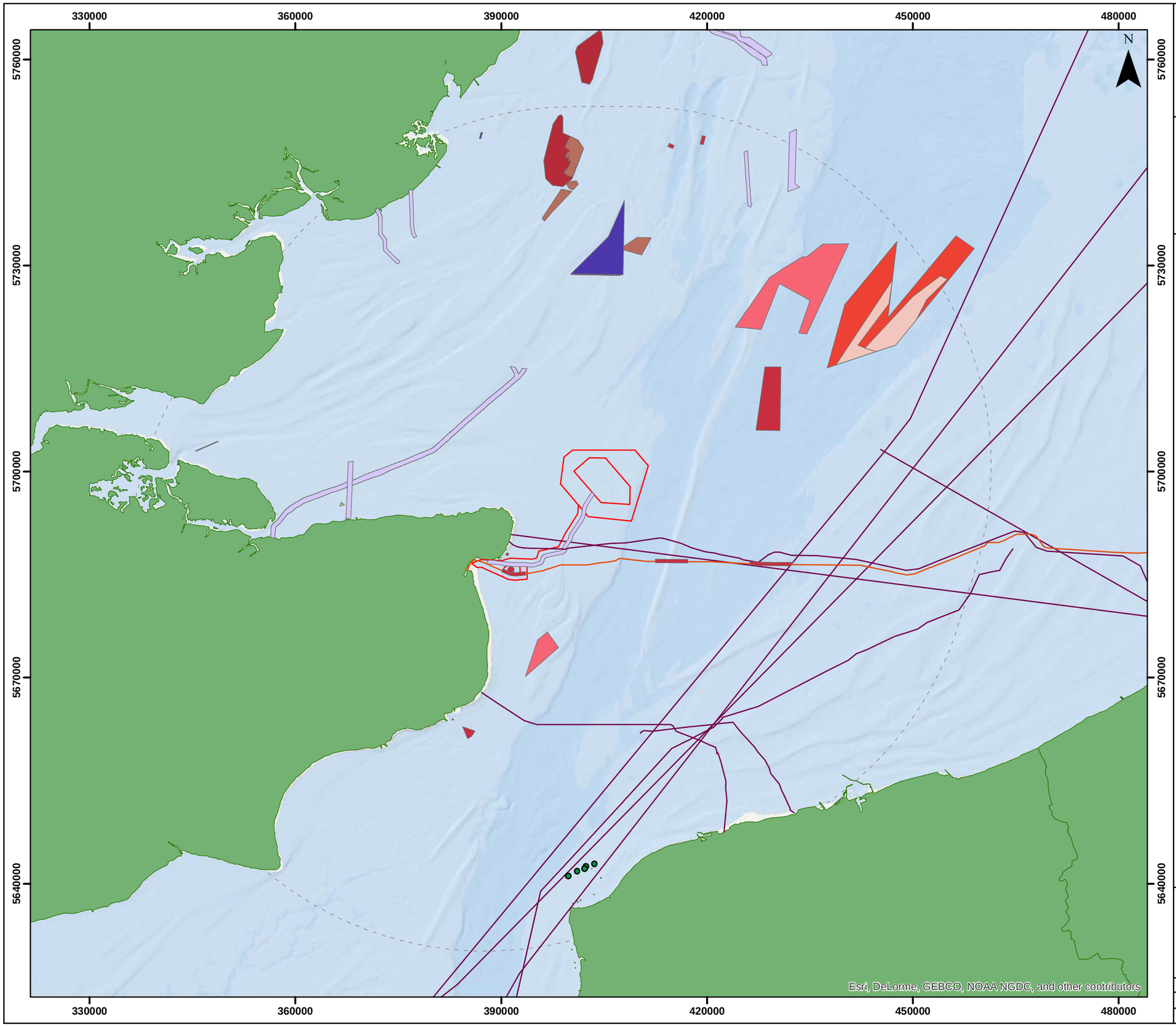
1:1,750,000

0 10 20 km

0 10 20 nm

Drg No	Figure 2_O&G_Shipping		
Rev	0.1	Date	29/05/2018
By	LS	Layout	N/A

Figure 1.2



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THANET EXTENSION OFFSHORE WIND FARM

Figure 1.3
Aggregate, disopsal and cables considered within the CEA

Legend

- Offshore Red Line Boundary

Dredge Sites
- Closed
- Disused
- Open

Aggregate Areas
- Aggregate Application Area
- Aggregate Exploration and Option Area
- Aggregate Licence Option Area
- Aggregate Option Area
- Aggregate Production Area

Other Aggregate Sites
- Other Aggregate Sites

Cables
- Nemo Interconnector
- Export Cable Routes
- Other Cables
- 50km Buffer Rings

Datum: ETRS 1989
Projection: UTM31N

1:550,000 0 6 12 km 0 3 6 nm

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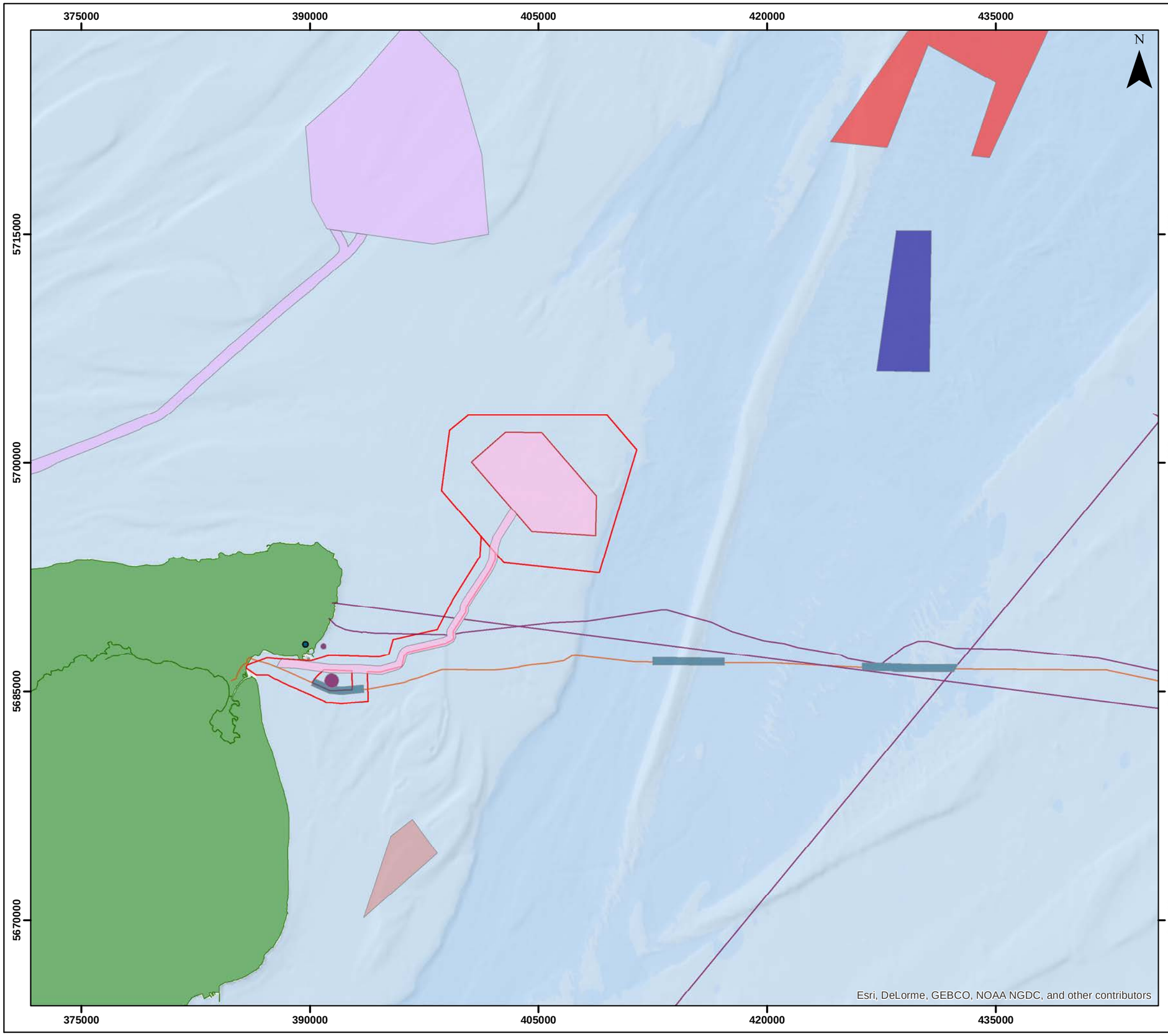
Rev	0.1	Date	29/05/2018
By	LS	Layout	N/A

Figure 1.3



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THANET EXTENSION OFFSHORE WIND FARM

Figure 1.4

All projects, plans and activities within 25km of Thanet Extension

Legend

- Offshore Red Line Boundary

Offshore Windfarms and Export Cables

- Thanet
- London Array 1

Aggregate Areas

- Thames Exploration Area
- Goodwin Sands Exploration Area

Disposal Sites

- South Falls (Open)
- Ramsgate Harbour (Open)
- Pegwell Bay (Open)
- Nemo (Open)

Cables

- Other cables
- Nemo Interconnector Cable
- Ramsgate Port

Datum: ETRS 1989
Projection: UTM31N

1:250,000 0 2.5 5 km 0 1.5 3 nm

Drg No	Figure_4_Projects_25km		
Rev	0.1	Date	15/06/2018
By	LS	Layout	N/A

Figure 1.4

Onshore

1.7.8 The long list, landward of Mean Low Water Springs (MLWS) has been developed on the scale of projects and the potential for them to have cumulative effects with Thanet Extension. The extents for the search area for projects vary depending on the aspect of the onshore construction, to allow for the different scale of potential impact, as outlined in Table 1.7 below.

Table 1.7: CEA Onshore Search Area Extents

Project Component	CEA Search Area Extent
Landfall	Up to 5 km from the landfall areas
Onshore export cable corridor	Up to 5 km from the cable corridor (including within)
Substation	Up to 5 km from the substation location

1.7.9 Using the search areas in Table 1.7, only projects classed as an EIA Development or projects defined as major developments in the Town and Country Planning (Development Management Procedure) Order 2015 have been included, i.e.:

- Winning and working of minerals (or use of land for mineral working deposits);
- Waste development;
- Provision of dwelling houses where:
  - The number is to be more than 10; or
  - The development is to be carried out on a site of 0.5 hectares or more and it is not known if the development will consist of more than 10 dwelling houses.
- Provision of a building or buildings where the floor space to be created by the development is 1,000 m^2 or more; or
- Development carried out on a site having an area of 1 hectare or more.

1.7.10 Onshore projects, plans and activities have been identified from an interrogation of the relevant local authority websites:

- Kent County Council (landfall, cable corridor and substation);
- Dover District Council (landfall, cable corridor and substation); and
- Thanet District Council (landfall, cable corridor and substation).

Screening

1.7.11 Once the CEA long list is created, all projects, plans and activities will be screened, based on the potential for interaction with Thanet Extension, either temporal, spatial or conceptual, and also the level of detail available. All plans, projects and activities are screened based on the potential impacts of each in combination with Thanet Extension, 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.

1.7.12 The screening process should follow the criteria below:

- Screened out of the CEA because:
  - Project, plan or activity included as part of the baseline (therefore not considered in CEA);
  - Low data confidence;
  - No conceptual effect-receptor pathway exists;
  - No physical effect-receptor overlap; or
  - No temporal overlap.
- Screened into the CEA because:
  - Project, plan or activity considered as part of the baseline but has ongoing effects; or
  - There is a potential for a cumulative impact to occur.

1.7.13 During the screening process it is important to follow the steps above in the defined order as this will allow a clear justification for screening projects in or out. Additionally, this will then allow, for projects with low data availability, the screening out of effects that cannot be included due to lack of data, while screening in those that can be considered with the available data.

Table 1.8: Project Specific Screening Definitions

Term	Definition
Conceptual overlap	An impact-receptor pathway exists. An example of a conceptual overlap would include increased suspended sediment concentration from a plan, project or activity (not Thanet Extension) that might impact on fish or shellfish receptors. An example of no conceptual overlap would include operation of an onshore cable with commercial shipping.
Physical overlap	The impacts on one receptor from Thanet Extension and one or more other plans, projects or activities overlap, i.e. sediment plumes interact or noise contours from piling, while not overlapping directly, impact of the general range of a mobile species such as harbour porpoise.
Temporal overlap	The specific impacts on a receptor have to interact temporally for there to be a cumulative effect. For those impacts only active during construction, e.g. piling noise, it is necessary to determine the potential overlap with construction activities of other plans, projects and activities so as to assess the likelihood of any overlap.

1.7.14 The full justification for the screening distances for each receptor is identified within the relevant chapter, however Table 1.9 below provides an overview of the extents for each receptor.

Table 1.9: Screening Extents for CEA Purposes

Receptor	Maximum extent of impact
Marine Processes	Tidal ellipse distance (12 km) Wave regime change (20 km)
Benthic Ecology	Dependant on Marine Processes assessment (12 km)
Fish and Shellfish Ecology	Dependant on Marine Processes assessment and noise modelling (12 km for sedimentary related impacts and greater for noise related impacts)
Marine Mammals	Reference population extent (i.e. harbour porpoise would be the entire North Sea)
Ornithology	Maximum foraging range for species with broadest foraging range (i.e. approx. 380 km for Gannet)
Commercial Fisheries	Extent of the relevant fishing grounds (approx. 25km)
Shipping and Navigation	Based on shipping lanes width and available sea space around TEOW
Aviation, Military and Communication	Distance at which disturbance from the wind farm would interact with that of an ‘other development’ (45 km)
Marine Archaeology	Archaeological object specific
Infrastructure and Other Users	Extent of order limits plus any relevant safety zones (i.e. max 500 m from edge of order limits)
Offshore Landscape and Visual	Maximum extent of Zone of Theoretical Visibility 45 km

1.8 References

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Appendix 1: Cumulative Assessment Screening Matrix

Marine Aggregate and Disposal - Temporal

	Consenting/Pre-Construction
	Construction
	Operation and Maintenance
	Decommissioning

Note - where an end date is not given in the licence, then a duration of 15 years has been assumed based on previous licences.

Project	Information in the Public Domain	Data Confidence Assessment	Capacity/ scale	Status of Development	Construction Period (red outline denotes the construction period for TEOW)												
					2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029-2050
United Kingdom																	
Cutline - 446	TCE data	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.	Aggregate Licence Option Area operated by Hanson Aggregates Marine Ltd	Open													
Cutline - 446	TCE data	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.	Aggregate Licence Option Area operated by Tarmac Marine Ltd	Open													
Cutline - 446	TCE data	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.	Aggregate Licence Option Area operated by CEMEX UK Marine Ltd	Open													
Cutline - 447	TCE data	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.	Aggregate Production Area operated by Hanson Aggregates Marine Ltd	Open													
Cutline - 447	TCE data	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.	Aggregate Production Area operated by Tarmac Marine Ltd	Open													
Cutline - 447	TCE data	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.	Aggregate Production Area operated by CEMEX UK Marine Ltd	Open													
Goodwin Sands	TCE data	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.	Aggregate Exploration and Option Area operated by Dover Harbour Board	Open													
Longsand - 508	TCE data	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.	Aggregate Production Area operated by Britannia Aggregates Ltd	Open													
Longsand - 509/1	TCE data	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.	Aggregate Production Area operated by Tarmac Marine Ltd	Open													
Longsand - 509/2	TCE data	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.	Aggregate Production Area operated by Tarmac Marine Ltd	Open													
Longsand - 509/3	TCE data	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.	Aggregate Production Area operated by Tarmac Marine Ltd	Open													
Longsand - 510/1	TCE data	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.	Aggregate Production Area operated by CEMEX UK Marine Ltd	Open													
Longsand - 510/2	TCE data	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.	Aggregate Production Area operated by CEMEX UK Marine Ltd	Open													
North Falls East - 501	TCE data	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.	Aggregate Option Area operated by Westminster Gravels Ltd	Open													
North Falls East - 501/2	TCE data	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.	Aggregate Application Area operated by Westminster Gravels Ltd	Open													

Project	Information in the Public Domain	Data Confidence Assessment	Capacity/ scale	Status of Development	Construction Period (red outline denotes the construction period for TEOW)												
					2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029-2050
North Falls East - 501/2	TCE data	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.	Aggregate Application Area operated by Westminster Gravels Ltd	Open													
Thames D - 524	TCE data	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.	Aggregate Exploration and Option Area operated by DEME Building Materials Ltd	Open													
United Kingdom - Disposal																	
Area 108/3	Emodnet data	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Disposal Area	Disused													
Dover	Emodnet data	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Disposal Area	Open													
Dover - Emergency Site	Emodnet data	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Disposal Area	Open													
Inner Gabbard	Emodnet data	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Disposal Area	Open													
Inner Gabbard East	Emodnet data	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Disposal Area	Open													
Medway Approach Channel B	Emodnet data	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Disposal Area	Disused													
Nemo Disposal Site A	Emodnet data	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Disposal Area	Open													
Nemo Disposal Site B	Emodnet data	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Disposal Area	Open													
Nemo Disposal Site C	Emodnet data	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Disposal Area	Open													
North West Shipwash	Emodnet data	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Disposal Area	Open													
Orwell East	Emodnet data	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Disposal Area	Open													
Pegwell Bay	Emodnet data	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Disposal Area	Open													
Pegwell Bay B	Emodnet data	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Disposal Area	Open													
Ramsgate Harbour Site A	Emodnet data	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Disposal Area	Open													
Ramsgate Harbour Site B	Emodnet data	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Disposal Area	Open													
South Falls	Emodnet data	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Disposal Area	Open													

Project	Information in the Public Domain	Data Confidence Assessment	Capacity/ scale	Status of Development	Construction Period (red outline denotes the construction period for TEOW)												
					2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029-2050
The Well	Emodnet data	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Disposal Area	Disused													
Titchmarsh Saltings	Emodnet data	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Disposal Area	Open													
Whitstable C	Emodnet data	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Disposal Area	Open													
France																	
Wissant_1973 (1)	Emodnet data	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Aggregate Production Area	Open													
Wissant_1973 (2)	Emodnet data	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Aggregate Production Area	Open													
Wissant_1973 (3)	Emodnet data	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Aggregate Production Area	Open													
Wissant_1973 (4)	Emodnet data	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Aggregate Production Area	Open													
Wissant_1981	Emodnet data	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Aggregate Production Area	Open													

Marine Aggregate and Disposal - Spatial and Screening

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

Project	Distance from the TEOW Array Area (km)	Distance from the TEOW Offshore Export Cable Route Corridor (km)	Status of Development	Data Confidence	Marine Processes	Benthic Ecology	Fish & Shellfish Ecology	Marine Mammals	Ornithology	Commercial Fisheries	Shipping & Navigation	Aviation, Military & Communications	Marine Archaeology	Infrastructure & Other Users	Landscape and Visual
United Kingdom															
Cutline - 446	38	46	Open	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.											
Cutline - 446	38	46	Open	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.											
Cutline - 446	38	46	Open	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.											
Cutline - 447	40	48	Open	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.											
Cutline - 447	40	48	Open	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.											
Cutline - 447	40	48	Open	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.											
Goodwin Sands	18	8	Open	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.											
Longsand - 508	34	38	Open	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.											
Longsand - 509/1	38	46	Open	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.											
Longsand - 509/2	34	42	Open	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.											
Longsand - 509/3	25	34	Open	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.											
Longsand - 510/1	25	34	Open	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.											
Longsand - 510/2	28	38	Open	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.											
North Falls East - 501	30	41	Open	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.											
North Falls East - 501/2	31	36	Open	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.											

Project	Distance from the TEOW Array Area (km)	Distance from the TEOW Offshore Export Cable Route Corridor (km)	Status of Development	Data Confidence	Marine Processes	Benthic Ecology	Fish & Shellfish Ecology	Marine Mammals	Ornithology	Commercial Fisheries	Shipping & Navigation	Aviation, Military & Communications	Marine Archaeology	Infrastructure & Other Users	Landscape and Visual
North Falls East - 501/2	42	47	Open	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.											
Thames D - 524	23	35	Open	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.											
United Kingdom - Disposal															
Area 108/3	25	34	Disused	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'											
Dover	35	18	Open	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'											
Dover - Emergency Site	35	17	Open	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'											
Inner Gabbard	44	54	Open	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'											
Inner Gabbard East	46	55	Open	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'											
Medway Approach Channel B	48	41	Disused	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'											
Nemo Disposal Site A	18	25	Open	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'											
Nemo Disposal Site B	7	12	Open	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'											
Nemo Disposal Site C	12	0	Open	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'											
North West Shipwash	17	24	Open	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'											
Orwell East	45	52	Open	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'											
Pegwell Bay	13	0	Open	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'											
Pegwell Bay B	12	0	Open	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'											
Ramsgate Harbour Site A	13	0	Open	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'											
Ramsgate Harbour Site B	14	0	Open	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'											
South Falls	17	28	Open	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'											

Project	Distance from the TEOW Array Area (km)	Distance from the TEOW Offshore Export Cable Route Corridor (km)	Status of Development	Data Confidence	Marine Processes	Benthic Ecology	Fish & Shellfish Ecology	Marine Mammals	Ornithology	Commercial Fisheries	Shipping & Navigation	Aviation, Military & Communications	Marine Archaeology	Infrastructure & Other Users	Landscape and Visual
The Well	47	55	Disused	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'											
Titchmarsh Saltings	49	56	Open	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'											
Whitstable C	32	21	Open	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'											
France															
Wissant_1973 (1)	52	41	Open	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'											
Wissant_1973 (2)	52	41	Open	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'											
Wissant_1973 (3)	51	40	Open	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'											
Wissant_1973 (4)	50	40	Open	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'											
Wissant_1981	51	41	Open	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'											

Energy Projects - Temporal

Consenting/Pre-Construction
Construction
Operation and Maintenance
Decommissioning
Project has been withdrawn from development

Project	Information in the Public Domain	Data Confidence Assessment	Consented Capacity/ scale	Status of Development	Construction Period (red outline denotes the construction period for TEOW)																																		
					2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049
Offshore Wind Farms																																							
United Kingdom																																							
Barrow	Project website	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer	90MW (30 3MW turbines)	Operational																																			
Blyth	Project website	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer	4MW (2 2MW turbines)	Decommissioning																																			
Blyth Demonstration	Project website	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer	41.5MW (5 8MW turbines)	Consented																																			
Burbo Bank	Project website	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer	90MW (25 3.6MW turbines)	Operational																																			
Burbo Bank Extension	Project website	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer	258MW (32 8MW turbines)	Under construction																																			
Dogger Bank Creyke Beck A	Project website	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer	Up to 1.2GW	Approved																																			
Dogger Bank Creyke Beck B	Project website	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer	Up to 1.2GW	Approved																																			
Dogger Bank Teesside A	Project website	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer	Up to 1.2GW	Approved																																			
Dogger Bank Teesside B	Project website	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer	Up to 1.2GW	Approved																																			
Dudgeon	Project website	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer	402MW (67 6MW turbines)	Under construction																																			
East Anglia Norfolk Boreas	Project website	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer	Up to 1.8GW	Pre-planning Application																																			
East Anglia Norfolk Vanguard East	Project website	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer	Vanguard (East and West) will have a combined capacity of up to 1.8GW	Pre-planning Application																																			
East Anglia Norfolk Vanguard West	Project website	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer	Vanguard (East and West) will have a combined capacity of up to 1.8GW	Pre-planning Application																																			
East Anglia One	Project website	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer	714MW (102 7MW turbines)	Consented																																			
East Anglia One North	Project website	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer	Up to 800MW	Pre-planning Application																																			
East Anglia Two	Project website	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer	Up to 800MW	Pre-planning Application																																			
East Anglia Three	Project website	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer	Up to 1.2GW (up to 172 turbines)	In Planning																																			
Galloper	Project website	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer	336MW (56 6MW turbines)	Under construction																																			
Greater Gabbard	Project website	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer	500MW (140 3.6MW turbines)	Operational																																			
Gunfleet Sands Demo	Project website	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer	12MW (2 6MW turbines)	Operational																																			
Gunfleet Sands I	Project website	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer	108MW (30 3.6MW turbines)	Operational																																			
Gunfleet Sands II	Project website	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer	65MW (18 3.6MW turbines)	Operational																																			
Gwynt y Mor	Project website	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer	576MW (160 3.6MW turbines)	Operational																																			
Hornsea Project One	Project website	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer	1.2GW (174 7MW turbines)	Consented																																			
Hornsea Project Two	Project website	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer	Up to 1.8GW	Approved																																			
Hornsea Project Three	Project website	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer	Up to 2.4GW	Pre-planning Application																																			
Humber Gateway	Project website	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer	219MW (73 3MW turbines)	Operational																																			
Inch Cape	Project website	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer	784MW	Approved/in planning																																			

Project	Information in the Public Domain	Data Confidence Assessment	Consented Capacity/ scale	Status of Development	Construction Period (red outline denotes the construction period for TEOW)
					2017 2018 2019 2020 2021 2022 2023 2024 2025 2026 2027 2028 2029 2030 2031 2032 2033 2034 2035 2036 2037 2038 2039 2040 2041 2042 2043 2044 2045 2046 2047 2048 2049
Inner Dowsing	4C Offshore website	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer	97MW (27 3.6MW turbines)	Operational	
Kentish Flats 1	Project website	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer	90MW (30 3MW turbines)	Operational	
Kentish Flats 2	Project website	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer	49.5MW (15 3.3MW turbines)	Operational	
Lincs	Project website	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer	270MW (75 3.6MW turbines)	Operational	
London Array 1	Project website	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer	630MW (175 3.6MW turbines)	Operational	
Lynn	4C Offshore website	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer	97MW (27 3.6MW turbines)	Operational	
Moray East	Project website	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer	1.1GW	Approved/in planning	
Moray West	Project website	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer	500MW	Pre-planning Application	
Neart na Gaoithe	Project website	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer	450MW	Approved	
North Hoyle	Project website	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer	60MW (30 2MW turbines)	Operational	
Ormonde	Project website	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer	150MW (30 5MW turbines)	Operational	
Race Bank	Project website and 4C Offshore website	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer	Up to 580MW (91 6MW turbines)	Under construction	
Rampion Wind Farm	Project website	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer	400MW (116 3.45MW turbines)	Under construction	
Rhyl Flats	4C Offshore website	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer	90MW (25 3.6MW turbines)	Operational	
SeaGreen (Alpha and Bravo)	Project website	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer	1.05GW (525MW each area)	Approved	
Scroby Sands	Project website and 4C Offshore website	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer	60MW (30 2MW turbines)	Operational	
Sheringham Shoal	Project website	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer	317MW (88 3.6MW turbines)	Operational	
Teesside	Project website	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer	62MW (27 2.3MW turbines)	Operational	
Thanet	Project website	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer	300MW (100 3MW turbines)	Operational	
Triton Knoll	Project website	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer	Up to 900MW	Approved	
Walney 1	Project website	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer	183.5MW (51 3.6MW turbines)	Operational	
Walney 2	Project website	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer	183.5MW (51 3.6MW turbines)	Operational	
Walney Extension	Project website	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer	649MW (47 7MW turbines and 40 8MW turbines)	Under construction	
West of Duddon Sands	Project website	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer	210MW (35 6MW turbines)	Operational	
Westermost Rough	Project website	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer	389MW (108 3.6MW turbines)	Operational	
Belgium					
Belwind	Project website	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer	165MW (55 3MW turbines)	Operational	
C-power II (Block A)	Project website	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer	177.6MW (6 5MW turbines amd 24 6.15MW turbines)	Operational	
C-power II (Block B)	Project website	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer	147.6MW (24 6.15MW turbines)	Operational	
Mermaid	4C Offshore website	Medium - Third party project details published in the public domain but not confirmed as 'accurate' by the developer	Up to 288MW	Approved	
Norther	Project website	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer	Up to 370MW (up to 44 turbines)	Consented	
Northwind	4C Offshore website	Medium - Third party project details published in the public domain but not confirmed as 'accurate' by the developer	216MW (72 3MW turbines)	Operational	

Project	Information in the Public Domain	Data Confidence Assessment	Consented Capacity/ scale	Status of Development	Construction Period (red outline denotes the construction period for TEOW)																																					
					2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049
Rentel Area A	Project website	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer	309MW (42 7.35MW turbines)	Consented																																						
Seastar	4C Offshore website	Medium - Third party project details published in the public domain but not confirmed as 'accurate' by the developer	Up to 252MW	Approved																																						
France																																									
Fecamp - Seine-Maritime	4C Offshore website	Medium - Third party project details published in the public domain but not confirmed as 'accurate' by the developer	Up to 498MW	In Planning																																						
Parc eolien Courseulles-Sur-Mer	4C Offshore website	Medium - Third party project details published in the public domain but not confirmed as 'accurate' by the developer	Up to 450MW	In Planning																																						
Projet eolien en mer de la Baie de Saint-Brieuc	4C Offshore website	Medium - Third party project details published in the public domain but not confirmed as 'accurate' by the developer	Up to 496MW	In Planning																																						
Germany																																									
Albatros	Project website and 4C Offshore website	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer	Up to 400MW	Approved																																						
Alpha Ventus	Project website and 4C Offshore website	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer	60MW (12 5MW turbines)	Operational																																						
BARD Offshore 1	Project website and 4C Offshore website	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer	400MW (80 5MW turbines)	Operational																																						
Borkum Riffgrund 1	Project website and 4C Offshore website	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer	312MW (78 4MW turbines)	Operational																																						
Borkum Riffgrund 2	Project website and 4C Offshore website	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer	450MW (56 8MW turbines) - using a combination of monopile and suction bucket foundations	Consented																																						
Borkum Riffgrund West	4C Offshore website	Medium - Third party project details published in the public domain but not confirmed as 'accurate' by the developer	Up to 470MW (45 6MW turbines)	Approved																																						
Borkum West 2	4C Offshore website	Medium - Third party project details published in the public domain but not confirmed as 'accurate' by the developer	Up to 258MW	In Planning																																						
Demonstrationsprojekt Albatros 1	Emodnet	Low - There is a lack of robust data and information and/or data quality is outwith of Vattenfall's control	Up to 50MW	Approved																																						
Deutsche Bucht	Project website and 4C Offshore website	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer	Up to 252MW	Approved																																						
EnBW He dreiht	Project website and 4C Offshore website	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer	Up to 700MW	Approved																																						
EnBW Hohe See	Project website and 4C Offshore website	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer	Up to 500MW	Approved																																						
GlobalTech I	Project website and 4C Offshore website	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer	400MW (80 5MW turbines)	Operational																																						
Gode Wind 1 & 2	Project website and 4C Offshore website	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer	582MW (97 6MW turbines)	Operational																																						
Gode Wind 3	4C Offshore website	Medium - Third party project details published in the public domain but not confirmed as 'accurate' by the developer	Up to 112MW	Approved																																						
Gode Wind 4	4C Offshore website	Medium - Third party project details published in the public domain but not confirmed as 'accurate' by the developer	Up to 336MW	Approved																																						
Kaikas	4C Offshore website	Medium - Third party project details published in the public domain but not confirmed as 'accurate' by the developer	Up to 581MW	Approved																																						
Merkur	4C Offshore website	Medium - Third party project details published in the public domain but not confirmed as 'accurate' by the developer	Up to 396MW	Consented																																						
Nordsee 1	Project website and 4C Offshore website	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer	332MW (54 6.15MW turbines)	Under construction																																						
Nordsee 2	4C Offshore website	Medium - Third party project details published in the public domain but not confirmed as 'accurate' by the developer	Up to 384MW	Approved																																						
Nordsee 3	4C Offshore website	Medium - Third party project details published in the public domain but not confirmed as 'accurate' by the developer	Up to 400MW	Approved																																						
OWP Delta Nordsee 1	4C Offshore website	Medium - Third party project details published in the public domain but not confirmed as 'accurate' by the developer	Up to 210MW	Approved																																						
OWP Delta Nordsee 2	4C Offshore website	Medium - Third party project details published in the public domain but not confirmed as 'accurate' by the developer	Up to 160MW	Approved																																						
OWP West	4C Offshore website	Medium - Third party project details published in the public domain but not confirmed as 'accurate' by the developer	Up to 328MW	Approved																																						
Riffgat	Project website and 4C Offshore website	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer	108MW (30 3.6MW turbines)	Operational																																						
Trianel Windpark Borkum Phase 1	Project website and 4C Offshore website	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer	200MW (32 6.15MW turbines)	Operational																																						
Trianel Windpark Borkum Phase 2	4C Offshore website	Medium - Third party project details published in the public domain but not confirmed as 'accurate' by the developer	200MW (40 5MW turbines)	Approved																																						

Project	Information in the Public Domain	Data Confidence Assessment	Consented Capacity/ scale	Status of Development	Construction Period (red outline denotes the construction period for TEOW)																																	
					2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030	2031	2032	2033	2034	2035	2036	2037	2038	2039	2040	2041	2042	2043	2044	2045	2046	2047	2048	2049
Veja Mate	Project website and 4C Offshore website	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer	402MW (67 6.MW turbines)	Under construction																																		
Netherlands																																						
Borssele 1 & 2	4C Offshore website	Medium - Third party project details published in the public domain but not confirmed as 'accurate' by the developer	Up to 700MW	Approved																																		
Borssele 3 & 4	4C Offshore website	Medium - Third party project details published in the public domain but not confirmed as 'accurate' by the developer	Up to 680MW	Approved																																		
Borssele 5	4C Offshore website	Medium - Third party project details published in the public domain but not confirmed as 'accurate' by the developer	Up to 20MW	Approved																																		
Clearcamp	4C Offshore website	Medium - Third party project details published in the public domain but not confirmed as 'accurate' by the developer	275MW	Dormant - may not be developed due to wake effects from nearby Gemini wind park																																		
Gemini (comprised of Buitengaats and ZeeEnergie)	Project website and 4C Offshore website	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer	600MW (150 4MW turbines)	Under construction																																		
Hollandse Kust noord 1	4C Offshore website	Medium - Third party project details published in the public domain but not confirmed as 'accurate' by the developer	Up to 350MW	In Planning																																		
Hollandse Kust noord 2	4C Offshore website	Medium - Third party project details published in the public domain but not confirmed as 'accurate' by the developer	Up to 350MW	In Planning																																		
Hollandse Kust zuid 1 & 2	4C Offshore website	Medium - Third party project details published in the public domain but not confirmed as 'accurate' by the developer	Up to 700MW	In Planning																																		
Hollandse Kust zuid 3 & 4	4C Offshore website	Medium - Third party project details published in the public domain but not confirmed as 'accurate' by the developer	Up to 700MW	In Planning																																		
Luchterduinen	Project website and 4C Offshore website	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer	129MW (43 3MW turbines)	Operational																																		
Offshore Windpark Egmond aan Zee	Project website and 4C Offshore website	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer	108MW (36 3MW turbines)	Operational																																		
Prinses Amaliapark	Project website and 4C Offshore website	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer	120MW (60 2MW turbines)	Operational																																		

Energy Projects - Spatial and Screening

	Included as part of the topic baseline and hence not considered within the cumulative impact assessment.
	Part of the baseline but has an ongoing impact and is therefore considered relevant to the cumulative impact assessment: ***Screened in to assessment.***
	Potential cumulative impact exists: ***Screened in to assessment.***
	No conceptual effect-receptor pathway: ***Screened out of assessment.***
	Low data confidence: ***Screened out of assessment.***
	No physical effect-receptor overlap: ***Screened out of assessment.***
	No temporal overlap: ***Screened out of assessment.***
	Project has been withdrawn from development

Project	Distance from the TEOW Array Area (km)	Distance from the TEOW Offshore Export Cable Route Corridor (km)	Status of Development	Data Confidence	Marine Processes	Benthic Ecology	Fish & Shellfish Ecology	Marine Mammals	Ornithology	Commercial Fisheries	Shipping & Navigation	Aviation, Military & Communications	Marine Archaeology	Infrastructure & Other Users	Landscape and Visual
Offshore Wind Farms															
United Kingdom															
Barrow	429	431	Operational	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer											
Blyth	455	463	Decommissioning	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer											
Blyth Demonstration	450	458	Consented	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer											
Burbo Bank	390	390	Operational	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer											
Burbo Bank Extension	391	391	Under construction	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer											
Dogger Bank Creyke Beck A	355	364	Approved	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer											
Dogger Bank Creyke Beck B	377	385	Approved	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer											
Dogger Bank Teesside A	392	402	Approved	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer											
Dogger Bank Teesside B	376	385	Approved	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer											
Dudgeon	194	202	Under construction	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer											
East Anglia Norfolk Boreas	172	182	Pre-planning Application	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer											
East Anglia Norfolk Vanguard East	160	171	Pre-planning Application	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer											
East Anglia Norfolk Vanguard West	156	167	Pre-planning Application	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer											
East Anglia One	89	101	Consented	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer											
East Anglia One North	130	114	Pre-planning Application	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer											
East Anglia Two	71	82	Pre-planning Application	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer											
East Anglia Three	138	149	In Planning	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer											
Galloper	34	45	Under construction	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer											
Greater Gabbard	34	45	Operational	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer											
Gunfleet Sands Demo	36	43	Operational	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer											
Gunfleet Sands I	36	44	Operational	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer											
Gunfleet Sands II	36	43	Operational	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer											
Gwynt y Mor	405	405	Operational	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer											
Hornsea Project One	263	271	Consented	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer											
Hornsea Project Two	263	271	Approved	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer											
Hornsea Project Three	258	268	Pre-planning Application	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer											
Humber Gateway	253	260	Operational	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer											
Inch Cape	602	610	Approved/in planning	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer											

Project	Distance from the TEOW Array Area (km)	Distance from the TEOW Offshore Export Cable Route Corridor (km)	Status of Development	Data Confidence	Marine Processes	Benthic Ecology	Fish & Shellfish Ecology	Marine Mammals	Ornithology	Commercial Fisheries	Shipping & Navigation	Aviation, Military & Communications	Marine Archaeology	Infrastructure & Other Users	Landscape and Visual
Inner Dowsing	203	211	Operational	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer											
Kentish Flats 1	27	21	Operational	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer											
Kentish Flats 2	26	21	Operational	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer											
Lincs	198	206	Operational	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer											
London Array 1	11	19	Operational	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer											
Lynn	199	206	Operational	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer											
Moray East	787	795	Approved/in planning	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer											
Moray West	787	795	Pre-planning Application												
Neart na Gaoithe	581	589	Approved	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer											
North Hoyle	401	400	Operational	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer											
Ormonde	443	445	Operational	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer											
Race Bank	200	208	Under construction	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer											
Rampion Wind Farm	146	128	Under construction	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer											
Rhyl Flats	410	409	Operational	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer											
SeaGreen (Alpha and Bravo)	597	605	Approved	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer											
Scroby Sands	129	137	Operational	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer											
Sheringham Shoal	182	190	Operational	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer											
Teesside	394	402	Operational	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer											
Thanet	0	3	Operational	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer											
Triton Knoll	219	227	Approved	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer											
Walney 1	442	443	Operational	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer											
Walney 2	448	450	Operational	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer											
Walney Extension	445	446	Under construction	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer											
West of Duddon Sands	434	436	Operational	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer											
Westermost Rough	273	281	Operational	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer											
Belgium															
Belwind	75	86	Operational	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer											
C-power II (Block A)	81	91	Operational	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer											
C-power II (Block B)	86	96	Operational	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer											
Mermaid	74	85	Approved	Medium - Third party project details published in the public domain but not confirmed as 'accurate' by the developer											
Norther	85	94	Consented	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer											
Northwind	81	91	Operational	Medium - Third party project details published in the public domain but not confirmed as 'accurate' by the developer											

Project	Distance from the TEOW Array Area (km)	Distance from the TEOW Offshore Export Cable Route Corridor (km)	Status of Development	Data Confidence	Marine Processes	Benthic Ecology	Fish & Shellfish Ecology	Marine Mammals	Ornithology	Commercial Fisheries	Shipping & Navigation	Aviation, Military & Communications	Marine Archaeology	Infrastructure & Other Users	Landscape and Visual
Rentel Area A	82	93	Consented	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer											
Seastar	78	88	Approved	Medium - Third party project details published in the public domain but not confirmed as 'accurate' by the developer											
France															
Fecamp - Seine-Maritime	190	170	In Planning	Medium - Third party project details published in the public domain but not confirmed as 'accurate' by the developer											
Parc eolien Courseulles-Sur-Mer	259	240	In Planning	Medium - Third party project details published in the public domain but not confirmed as 'accurate' by the developer											
Projet eolien en mer de la Baie de Saint-Brieuc	406	386	In Planning	Medium - Third party project details published in the public domain but not confirmed as 'accurate' by the developer											
Germany															
Albatros	452	463	Approved	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer											
Alpha Ventus	434	445	Operational	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer											
BARD Offshore 1	425	436	Operational	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer											
Borkum Riffgrund 1	427	438	Operational	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer											
Borkum Riffgrund 2	423	434	Consented	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer											
Borkum Riffgrund West	416	427	Approved	Medium - Third party project details published in the public domain but not confirmed as 'accurate' by the developer											
Borkum West 2	425	437	In Planning	Medium - Third party project details published in the public domain but not confirmed as 'accurate' by the developer											
Demonstrationsprojekt Albatros 1	461	473	Approved	Low - There is a lack of robust data and information and/or data quality is outwith of Vattenfall's control											
Deutsche Bucht	416	428	Approved	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer											
EnBW He dreiht	436	447	Approved	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer											
EnBW Hohe See	451	463	Approved	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer											
GlobalTech I	457	469	Operational	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer											
Gode Wind 1 & 2	451	462	Operational	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer											
Gode Wind 3	461	473	Approved	Medium - Third party project details published in the public domain but not confirmed as 'accurate' by the developer											
Gode Wind 4	459	470	Approved	Medium - Third party project details published in the public domain but not confirmed as 'accurate' by the developer											
Kaikas	454	465	Approved	Medium - Third party project details published in the public domain but not confirmed as 'accurate' by the developer											
Merkur	429	441	Consented	Medium - Third party project details published in the public domain but not confirmed as 'accurate' by the developer											
Nordsee 1	439	450	Under construction	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer											
Nordsee 2	452	464	Approved	Medium - Third party project details published in the public domain but not confirmed as 'accurate' by the developer											
Nordsee 3	446	457	Approved	Medium - Third party project details published in the public domain but not confirmed as 'accurate' by the developer											
OWP Delta Nordsee 1	442	454	Approved	Medium - Third party project details published in the public domain but not confirmed as 'accurate' by the developer											
OWP Delta Nordsee 2	442	453	Approved	Medium - Third party project details published in the public domain but not confirmed as 'accurate' by the developer											
OWP West	411	423	Approved	Medium - Third party project details published in the public domain but not confirmed as 'accurate' by the developer											
Riffgat	405	416	Operational	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer											
Trianel Windpark Borkum Phase 1	427	438	Operational	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer											
Trianel Windpark Borkum Phase 2	425	437	Approved	Medium - Third party project details published in the public domain but not confirmed as 'accurate' by the developer											

Project	Distance from the TEOW Array Area (km)	Distance from the TEOW Offshore Export Cable Route Corridor (km)	Status of Development	Data Confidence	Marine Processes	Benthic Ecology	Fish & Shellfish Ecology	Marine Mammals	Ornithology	Commercial Fisheries	Shipping & Navigation	Aviation, Military & Communications	Marine Archaeology	Infrastructure & Other Users	Landscape and Visual
Veja Mate	418	429	Under construction	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer											
Netherlands															
Borssele 1 & 2	96	107	Approved	Medium - Third party project details published in the public domain but not confirmed as 'accurate' by the developer											
Borssele 3 & 4	87	98	Approved	Medium - Third party project details published in the public domain but not confirmed as 'accurate' by the developer											
Borssele 5	93	103	Approved	Medium - Third party project details published in the public domain but not confirmed as 'accurate' by the developer											
Clearcamp	402	414	Dormant - may not be developed due to wake effects from nearby Gemini wind park	Medium - Third party project details published in the public domain but not confirmed as 'accurate' by the developer											
Gemini (comprised of Buitengaats and ZeeEnergie)	399	410	Under construction	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer											
Hollandse Kust noord 1	220	232	In Planning	Medium - Third party project details published in the public domain but not confirmed as 'accurate' by the developer											
Hollandse Kust noord 2	220	232	In Planning	Medium - Third party project details published in the public domain but not confirmed as 'accurate' by the developer											
Hollandse Kust zuid 1 & 2	180	192	In Planning	Medium - Third party project details published in the public domain but not confirmed as 'accurate' by the developer											
Hollandse Kust zuid 3 & 4	179	191	In Planning	Medium - Third party project details published in the public domain but not confirmed as 'accurate' by the developer											
Luchterduinen	184	195	Operational	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer											
Offshore Windpark Egmond aan Zee	223	234	Operational	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer											
Prinses Amaliapark	210	222	Operational	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer											

Commercial Fisheries - Temporal

	Consenting/Pre-Construction
	Construction
	Operation and Maintenance
	Decommissioning

Project	Information in the Public Domain	Data Confidence Assessment	Capacity/ scale	Status of Development	Construction Period (red outline denotes the construction period for TEOW)												
					2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029 - 2050
Fishing Rights	Industry information, CEFAS https://www.gov.uk/government/statistical-data-sets/uk-sea-fisheries-annual-statistics-report-2015	High - Third party project details published in the public domain and confirmed as being 'accurate' by CEFAS.	In 2015, the UK fishing industry had 6,187 fishing vessels compared with 6,716 in 2005, a reduction of 8 per cent. The fleet in 2015 comprised 4,863 10 metre and under vessels and 1,324 over 10 metre vessels.	Operational													
Aquaculture	Industry information, CEFAS	High - Third party project details published in the public domain and confirmed as being 'accurate' by CEFAS.	The majority of UK food finfish aquaculture is located in Scotland, but it is increasing in Wales and England. Shellfish culture is spread more evenly throughout the UK.	Operational													

Commercial Fisheries - Spatial and Screening

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

Project	Distance from the TEOW Array Area (km)	Distance from the TEOW Offshore Export Cable Route Corridor (km)	Status of Development	Data Confidence	Marine Processes	Benthic Ecology	Fish & Shellfish Ecology	Marine Mammals	Ornithology	Commercial Fisheries	Shipping & Navigation	Aviation, Military & Communications	Marine Archaeology	Infrastructure & Other Users	Landscape and Visual
Fishing Rights	N/A	N/A	Operational	High - Third party project details published in the public domain and confirmed as being 'accurate' by CEFAS.											
Aquaculture	N/A	N/A	Operational	High - Third party project details published in the public domain and confirmed as being 'accurate' by CEFAS.											

Oil and Gas - Temporal

	Consenting/Pre-Construction
	Construction
	Operation and Maintenance
	Decommissioning
	Project has been withdrawn from development or operation

Notes - Where no specific lifespan or decommissioning plan is stated for a field, 26 years production is assumed (full length of license).
Where fields are maked 'Production ceased', a 10 year decommisioning window is assumed.
Where fields are marked 'Production suspended', 18 years operation is assumed as production may restart following workover.
Where fields are marked 'Under development', no temporal information is available.

				Construction Period (red outline denotes the construction period for TEOW)												
Project	**Information in the Public Domain**	**Data Confidence Assessment**	**Status of Development**	**2017**	**2018**	**2019**	**2020**	**2021**	**2022**	**2023**	**2024**	**2025**	**2026**	**2027**	**2028**	**2029 - 2050**
United Kingdom																
Aberdonia Gas Field	Oil and Gas Authority	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Oil and Gas Authority	Under development													
Arthur Gas Field	Oil and Gas Authority	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Oil and Gas Authority	Producing													
Beaufort Gas Field	Oil and Gas Authority	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Oil and Gas Authority	Production ceased													
Bessemer Gas Field	Oil and Gas Authority	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Oil and Gas Authority	Producing													
Big Dotty Gas Field	Oil and Gas Authority	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Oil and Gas Authority	Production suspended													
Boyle Gas Field	Oil and Gas Authority	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Oil and Gas Authority	Producing													
Brown Gas Field	Oil and Gas Authority	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Oil and Gas Authority	Producing													
Bure Gas Field	Oil and Gas Authority	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Oil and Gas Authority	Producing													
Camelot Central South Gas Field	Oil and Gas Authority	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Oil and Gas Authority	Production ceased													
Camelot North Gas Field	Oil and Gas Authority	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Oil and Gas Authority	Production ceased													
Camelot North East Gas Field	Oil and Gas Authority	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Oil and Gas Authority	Production ceased													
Davy East Gas Field	Oil and Gas Authority	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Oil and Gas Authority	Producing													
Davy Gas Field	Oil and Gas Authority	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Oil and Gas Authority	Producing													
Dawn Gas Field	Oil and Gas Authority	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Oil and Gas Authority	Production ceased													
Deben Gas Field	Oil and Gas Authority	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Oil and Gas Authority	Production ceased													
Deborah Gas Field	Oil and Gas Authority	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Oil and Gas Authority	Producing													
Delilah Gas Field	Oil and Gas Authority	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Oil and Gas Authority	Production suspended													
Della Gas Field	Oil and Gas Authority	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Oil and Gas Authority	Production suspended													

Project	Information in the Public Domain	Data Confidence Assessment	Status of Development	Construction Period (red outline denotes the construction period for TEOW)												
				2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029 - 2050
Europa Gas Field	Oil and Gas Authority	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Oil and Gas Authority	Producing													
Gawain Gas Field	Oil and Gas Authority	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Oil and Gas Authority	Producing													
Hewitt Gas Field	Oil and Gas Authority	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Oil and Gas Authority	Producing													
Horne Gas Field	Oil and Gas Authority	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Oil and Gas Authority	Producing													
Leman Gas Field	Oil and Gas Authority	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Oil and Gas Authority	Producing													
Leman South Gas Field	Oil and Gas Authority	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Oil and Gas Authority	Under development													
Little Dotty Gas Field	Oil and Gas Authority	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Oil and Gas Authority	Production suspended													
North Davy Gas Field	Oil and Gas Authority	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Oil and Gas Authority	Producing													
Thames Gas Field	Oil and Gas Authority	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Oil and Gas Authority	Producing													
Thurne Gas Field	Oil and Gas Authority	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Oil and Gas Authority	Producing													
Tristan Gas Field	Oil and Gas Authority	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Oil and Gas Authority	Production ceased													
Tristan North West Gas Field	Oil and Gas Authority	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Oil and Gas Authority	Production ceased													
Vulcan Gas Field	Oil and Gas Authority	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Oil and Gas Authority	Producing													
Welland North West Gas Field	Oil and Gas Authority	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Oil and Gas Authority	Production ceased													
Welland South Gas Field	Oil and Gas Authority	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Oil and Gas Authority	Production ceased													
Wensum Gas Field	Oil and Gas Authority	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Oil and Gas Authority	Producing													
Wissey Gas Field	Oil and Gas Authority	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Oil and Gas Authority	Producing													
Wren Gas Field	Oil and Gas Authority	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Oil and Gas Authority	Producing													
Yare Gas Field	Oil and Gas Authority	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Oil and Gas Authority	Producing													
Netherlands																
Horizon	TNO Netherlands	High - Third party project details published in the public domain and confirmed as being 'accurate' by the TNO Netherlands	Producing													
P01-FA	TNO Netherlands	High - Third party project details published in the public domain and confirmed as being 'accurate' by the TNO Netherlands	Undeveloped (production start date unknown)													
P01-FB	TNO Netherlands	High - Third party project details published in the public domain and confirmed as being 'accurate' by the TNO Netherlands	Undeveloped (production start date unknown)													

Project	Information in the Public Domain	Data Confidence Assessment	Status of Development	Construction Period (red outline denotes the construction period for TEOW)												
				2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029 - 2050
P02-E	TNO Netherlands	High - Third party project details published in the public domain and confirmed as being 'accurate' by the TNO Netherlands	Undeveloped (production start date unknown)													
P02-SE	TNO Netherlands	High - Third party project details published in the public domain and confirmed as being 'accurate' by the TNO Netherlands	Abandoned													
P06-D	TNO Netherlands	High - Third party project details published in the public domain and confirmed as being 'accurate' by the TNO Netherlands	Producing													
P06-Main	TNO Netherlands	High - Third party project details published in the public domain and confirmed as being 'accurate' by the TNO Netherlands	Producing													
P06-Northwest	TNO Netherlands	High - Third party project details published in the public domain and confirmed as being 'accurate' by the TNO Netherlands	Undeveloped (production start date unknown)													
P06-South	TNO Netherlands	High - Third party project details published in the public domain and confirmed as being 'accurate' by the TNO Netherlands	Abandoned													
P08-A Horizon-West	TNO Netherlands	High - Third party project details published in the public domain and confirmed as being 'accurate' by the TNO Netherlands	Undeveloped (production expected within 5 years)													
P09-A	TNO Netherlands	High - Third party project details published in the public domain and confirmed as being 'accurate' by the TNO Netherlands	Producing													
P09-B	TNO Netherlands	High - Third party project details published in the public domain and confirmed as being 'accurate' by the TNO Netherlands	Production ceased													
P10a De Ruyter Western Extension	TNO Netherlands	High - Third party project details published in the public domain and confirmed as being 'accurate' by the TNO Netherlands	Producing													
P10b Van Brakel	TNO Netherlands	High - Third party project details published in the public domain and confirmed as being 'accurate' by the TNO Netherlands	Undeveloped (production start date unknown)													
P11a-E	TNO Netherlands	High - Third party project details published in the public domain and confirmed as being 'accurate' by the TNO Netherlands	Undeveloped (production expected within 5 years)													
P11b De Ruyter	TNO Netherlands	High - Third party project details published in the public domain and confirmed as being 'accurate' by the TNO Netherlands	Producing													
P11b Van Ghent	TNO Netherlands	High - Third party project details published in the public domain and confirmed as being 'accurate' by the TNO Netherlands	Producing													
P11b Van Ghent East	TNO Netherlands	High - Third party project details published in the public domain and confirmed as being 'accurate' by the TNO Netherlands	Undeveloped (production expected within 5 years)													
P11b Van Nes	TNO Netherlands	High - Third party project details published in the public domain and confirmed as being 'accurate' by the TNO Netherlands	Producing													
P11b Witte de With	TNO Netherlands	High - Third party project details published in the public domain and confirmed as being 'accurate' by the TNO Netherlands	Undeveloped (production expected within 5 years)													
P12-14	TNO Netherlands	High - Third party project details published in the public domain and confirmed as being 'accurate' by the TNO Netherlands	Undeveloped (production start date unknown)													
P12-3	TNO Netherlands	High - Third party project details published in the public domain and confirmed as being 'accurate' by the TNO Netherlands	Undeveloped (production start date unknown)													
P12-C	TNO Netherlands	High - Third party project details published in the public domain and confirmed as being 'accurate' by the TNO Netherlands	Abandoned													
P12-SW	TNO Netherlands	High - Third party project details published in the public domain and confirmed as being 'accurate' by the TNO Netherlands	Production ceased													
P14-A	TNO Netherlands	High - Third party project details published in the public domain and confirmed as being 'accurate' by the TNO Netherlands	Abandoned													

Project	Information in the Public Domain	Data Confidence Assessment	Status of Development	Construction Period (red outline denotes the construction period for TEOW)												
				2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029 - 2050
P15 Rijn	TNO Netherlands	High - Third party project details published in the public domain and confirmed as being 'accurate' by the TNO Netherlands	Producing													
P15-09	TNO Netherlands	High - Third party project details published in the public domain and confirmed as being 'accurate' by the TNO Netherlands	Producing													
P15-10	TNO Netherlands	High - Third party project details published in the public domain and confirmed as being 'accurate' by the TNO Netherlands	Production ceased													
P15-11	TNO Netherlands	High - Third party project details published in the public domain and confirmed as being 'accurate' by the TNO Netherlands	Producing													
P15-12	TNO Netherlands	High - Third party project details published in the public domain and confirmed as being 'accurate' by the TNO Netherlands	Production suspended													
P15-13	TNO Netherlands	High - Third party project details published in the public domain and confirmed as being 'accurate' by the TNO Netherlands	Producing													
P15-14	TNO Netherlands	High - Third party project details published in the public domain and confirmed as being 'accurate' by the TNO Netherlands	Production ceased													
P15-15	TNO Netherlands	High - Third party project details published in the public domain and confirmed as being 'accurate' by the TNO Netherlands	Production ceased													
P15-16	TNO Netherlands	High - Third party project details published in the public domain and confirmed as being 'accurate' by the TNO Netherlands	Production ceased													
P15-17	TNO Netherlands	High - Third party project details published in the public domain and confirmed as being 'accurate' by the TNO Netherlands	Producing													
P15-19	TNO Netherlands	High - Third party project details published in the public domain and confirmed as being 'accurate' by the TNO Netherlands	Producing													
P18-2	TNO Netherlands	High - Third party project details published in the public domain and confirmed as being 'accurate' by the TNO Netherlands	Producing													
P18-4	TNO Netherlands	High - Third party project details published in the public domain and confirmed as being 'accurate' by the TNO Netherlands	Producing													
P18-6	TNO Netherlands	High - Third party project details published in the public domain and confirmed as being 'accurate' by the TNO Netherlands	Producing													
P18-7	TNO Netherlands	High - Third party project details published in the public domain and confirmed as being 'accurate' by the TNO Netherlands	Undeveloped (production start date unknown)													
Q13a-Amstel	TNO Netherlands	High - Third party project details published in the public domain and confirmed as being 'accurate' by the TNO Netherlands	Producing													
Q13-FB	TNO Netherlands	High - Third party project details published in the public domain and confirmed as being 'accurate' by the TNO Netherlands	Undeveloped (production start date unknown)													
Q13-FC	TNO Netherlands	High - Third party project details published in the public domain and confirmed as being 'accurate' by the TNO Netherlands	Undeveloped (production start date unknown)													
Q16-FA	TNO Netherlands	High - Third party project details published in the public domain and confirmed as being 'accurate' by the TNO Netherlands	Producing													
Q16-Maas	TNO Netherlands	High - Third party project details published in the public domain and confirmed as being 'accurate' by the TNO Netherlands	Producing													

Oil and Gas - Spatial and Screening

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

Project	Distance from the TEOW Array Area (km)	Distance from the TEOW Offshore Export Cable Route Corridor (km)	Status of Development	Data Confidence	Marine Processes	Benthic Ecology	Fish & Shellfish Ecology	Marine Mammals	Ornithology	Commercial Fisheries	Shipping & Navigation	Aviation, Military & Communications	Marine Archaeology	Infrastructure & Other Users
United Kingdom														
Aberdonia Gas Field	162	171	Under development	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Oil and Gas Authority										
Arthur Gas Field	162	172	Producing	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Oil and Gas Authority										
Beaufort Gas Field	197	207	Production ceased	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Oil and Gas Authority										
Bessemer Gas Field	197	207	Producing	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Oil and Gas Authority										
Big Dotty Gas Field	177	185	Production suspended	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Oil and Gas Authority										
Boyle Gas Field	190	201	Producing	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Oil and Gas Authority										
Brown Gas Field	191	202	Producing	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Oil and Gas Authority										
Bure Gas Field	189	199	Producing	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Oil and Gas Authority										
Camelot Central South Gas Field	165	174	Production ceased	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Oil and Gas Authority										
Camelot North Gas Field	167	177	Production ceased	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Oil and Gas Authority										
Camelot North East Gas Field	169	179	Production ceased	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Oil and Gas Authority										
Davy East Gas Field	187	198	Producing	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Oil and Gas Authority										
Davy Gas Field	186	197	Producing	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Oil and Gas Authority										
Dawn Gas Field	183	192	Production ceased	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Oil and Gas Authority										
Deben Gas Field	187	197	Production ceased	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Oil and Gas Authority										
Deborah Gas Field	177	186	Producing	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Oil and Gas Authority										
Delilah Gas Field	176	186	Production suspended	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Oil and Gas Authority										
Della Gas Field	176	185	Production suspended	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Oil and Gas Authority										

Project	Distance from the TEOW Array Area (km)	Distance from the TEOW Offshore Export Cable Route Corridor (km)	Status of Development	Data Confidence	Marine Processes	Benthic Ecology	Fish & Shellfish Ecology	Marine Mammals	Ornithology	Commercial Fisheries	Shipping & Navigation	Aviation, Military & Communications	Marine Archaeology	Infrastructure & Other Users
Europa Gas Field	197	207	Producing	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Oil and Gas Authority										
Gawain Gas Field	199	210	Producing	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Oil and Gas Authority										
Hewitt Gas Field	164	173	Producing	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Oil and Gas Authority										
Horne Gas Field	171	181	Producing	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Oil and Gas Authority										
Leman Gas Field	172	182	Producing	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Oil and Gas Authority										
Leman South Gas Field	172	182	Under development	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Oil and Gas Authority										
Little Dotty Gas Field	173	182	Production suspended	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Oil and Gas Authority										
North Davy Gas Field	194	205	Producing	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Oil and Gas Authority										
Thames Gas Field	187	197	Producing	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Oil and Gas Authority										
Thurne Gas Field	184	194	Producing	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Oil and Gas Authority										
Tristan Gas Field	185	196	Production ceased	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Oil and Gas Authority										
Tristan North West Gas Field	185	195	Production ceased	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Oil and Gas Authority										
Vulcan Gas Field	194	203	Producing	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Oil and Gas Authority										
Welland North West Gas Field	181	192	Production ceased	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Oil and Gas Authority										
Welland South Gas Field	182	192	Production ceased	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Oil and Gas Authority										
Wensum Gas Field	185	196	Producing	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Oil and Gas Authority										
Wissey Gas Field	174	185	Producing	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Oil and Gas Authority										
Wren Gas Field	168	179	Producing	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Oil and Gas Authority										
Yare Gas Field	184	194	Producing	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Oil and Gas Authority										
Netherlands														
Horizon	184	195	Producing	High - Third party project details published in the public domain and confirmed as being 'accurate' by the TNO Netherlands										
P01-FA	199	210	Undeveloped (production start date unknown)	High - Third party project details published in the public domain and confirmed as being 'accurate' by the TNO Netherlands										
P01-FB	196	207	Undeveloped (production start date unknown)	High - Third party project details published in the public domain and confirmed as being 'accurate' by the TNO Netherlands										

Project	Distance from the TEOW Array Area (km)	Distance from the TEOW Offshore Export Cable Route Corridor (km)	Status of Development	Data Confidence	Marine Processes	Benthic Ecology	Fish & Shellfish Ecology	Marine Mammals	Ornithology	Commercial Fisheries	Shipping & Navigation	Aviation, Military & Communications	Marine Archaeology	Infrastructure & Other Users
P02-E	195	207	Undeveloped (production start date unknown)	High - Third party project details published in the public domain and confirmed as being 'accurate' by the TNO Netherlands										
P02-SE	197	208	Abandoned	High - Third party project details published in the public domain and confirmed as being 'accurate' by the TNO Netherlands										
P06-D	193	205	Producing	High - Third party project details published in the public domain and confirmed as being 'accurate' by the TNO Netherlands										
P06-Main	197	209	Producing	High - Third party project details published in the public domain and confirmed as being 'accurate' by the TNO Netherlands										
P06-Northwest	200	211	Undeveloped (production start date unknown)	High - Third party project details published in the public domain and confirmed as being 'accurate' by the TNO Netherlands										
P06-South	195	207	Abandoned	High - Third party project details published in the public domain and confirmed as being 'accurate' by the TNO Netherlands										
P08-A Horizon-West	182	193	Undeveloped (production expected within 5 years)	High - Third party project details published in the public domain and confirmed as being 'accurate' by the TNO Netherlands										
P09-A	192	204	Producing	High - Third party project details published in the public domain and confirmed as being 'accurate' by the TNO Netherlands										
P09-B	191	202	Production ceased	High - Third party project details published in the public domain and confirmed as being 'accurate' by the TNO Netherlands										
P10a De Ruyter Western Extension	149	161	Producing	High - Third party project details published in the public domain and confirmed as being 'accurate' by the TNO Netherlands										
P10b Van Brakel	149	160	Undeveloped (production start date unknown)	High - Third party project details published in the public domain and confirmed as being 'accurate' by the TNO Netherlands										
P11a-E	161	173	Undeveloped (production expected within 5 years)	High - Third party project details published in the public domain and confirmed as being 'accurate' by the TNO Netherlands										
P11b De Ruyter	150	161	Producing	High - Third party project details published in the public domain and confirmed as being 'accurate' by the TNO Netherlands										
P11b Van Ghent	153	165	Producing	High - Third party project details published in the public domain and confirmed as being 'accurate' by the TNO Netherlands										
P11b Van Ghent East	156	167	Undeveloped (production expected within 5 years)	High - Third party project details published in the public domain and confirmed as being 'accurate' by the TNO Netherlands										
P11b Van Nes	155	167	Producing	High - Third party project details published in the public domain and confirmed as being 'accurate' by the TNO Netherlands										
P11b Witte de With	152	164	Undeveloped (production expected within 5 years)	High - Third party project details published in the public domain and confirmed as being 'accurate' by the TNO Netherlands										
P12-14	173	185	Undeveloped (production start date unknown)	High - Third party project details published in the public domain and confirmed as being 'accurate' by the TNO Netherlands										
P12-3	175	187	Undeveloped (production start date unknown)	High - Third party project details published in the public domain and confirmed as being 'accurate' by the TNO Netherlands										
P12-C	179	191	Abandoned	High - Third party project details published in the public domain and confirmed as being 'accurate' by the TNO Netherlands										
P12-SW	173	184	Production ceased	High - Third party project details published in the public domain and confirmed as being 'accurate' by the TNO Netherlands										
P14-A	163	174	Abandoned	High - Third party project details published in the public domain and confirmed as being 'accurate' by the TNO Netherlands										

Project	Distance from the TEOW Array Area (km)	Distance from the TEOW Offshore Export Cable Route Corridor (km)	Status of Development	Data Confidence	Marine Processes	Benthic Ecology	Fish & Shellfish Ecology	Marine Mammals	Ornithology	Commercial Fisheries	Shipping & Navigation	Aviation, Military & Communications	Marine Archaeology	Infrastructure & Other Users
P15 Rijn	169	181	Producing	High - Third party project details published in the public domain and confirmed as being 'accurate' by the TNO Netherlands										
P15-09	167	179	Producing	High - Third party project details published in the public domain and confirmed as being 'accurate' by the TNO Netherlands										
P15-10	171	183	Production ceased	High - Third party project details published in the public domain and confirmed as being 'accurate' by the TNO Netherlands										
P15-11	164	176	Producing	High - Third party project details published in the public domain and confirmed as being 'accurate' by the TNO Netherlands										
P15-12	164	176	Production suspended	High - Third party project details published in the public domain and confirmed as being 'accurate' by the TNO Netherlands										
P15-13	163	174	Producing	High - Third party project details published in the public domain and confirmed as being 'accurate' by the TNO Netherlands										
P15-14	166	179	Production ceased	High - Third party project details published in the public domain and confirmed as being 'accurate' by the TNO Netherlands										
P15-15	169	180	Production ceased	High - Third party project details published in the public domain and confirmed as being 'accurate' by the TNO Netherlands										
P15-16	172	183	Production ceased	High - Third party project details published in the public domain and confirmed as being 'accurate' by the TNO Netherlands										
P15-17	173	184	Producing	High - Third party project details published in the public domain and confirmed as being 'accurate' by the TNO Netherlands										
P15-19	169	180	Producing	High - Third party project details published in the public domain and confirmed as being 'accurate' by the TNO Netherlands										
P18-2	169	180	Producing	High - Third party project details published in the public domain and confirmed as being 'accurate' by the TNO Netherlands										
P18-4	167	179	Producing	High - Third party project details published in the public domain and confirmed as being 'accurate' by the TNO Netherlands										
P18-6	172	183	Producing	High - Third party project details published in the public domain and confirmed as being 'accurate' by the TNO Netherlands										
P18-7	170	181	Undeveloped (production start date unknown)	High - Third party project details published in the public domain and confirmed as being 'accurate' by the TNO Netherlands										
Q13a-Amstel	185	196	Producing	High - Third party project details published in the public domain and confirmed as being 'accurate' by the TNO Netherlands										
Q13-FB	189	201	Undeveloped (production start date unknown)	High - Third party project details published in the public domain and confirmed as being 'accurate' by the TNO Netherlands										
Q13-FC	183	194	Undeveloped (production start date unknown)	High - Third party project details published in the public domain and confirmed as being 'accurate' by the TNO Netherlands										
Q16-FA	173	184	Producing	High - Third party project details published in the public domain and confirmed as being 'accurate' by the TNO Netherlands										
Q16-Maas	168	180	Producing	High - Third party project details published in the public domain and confirmed as being 'accurate' by the TNO Netherlands										

Cables and Pipelines - Temporal

	Consenting/Pre-Construction
	Construction
	Operation and Maintenance
	Decommissioning
	Project has been withdrawn from development or operation

Notes - Where no specific lifespan or decommissioning plan is stated for a cable, 15 years further life is assumed.
Where fields are marked 'Precomission' or 'Under construction' and no other lifespan data is stated, 2 years comissioning/construction is assumed before entering service.
Where fields are marked 'Proposed' and no ther lifesapn data is stated, 2 years consenting and 3 years construction is assumed before entering service.

Project	Information in the Public Domain	Data Confidence Assessment	Capacity / scale	Status of Development	Construction Period (red outline denotes the construction period for TEOW)												
					2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029-2050
Cables																	
United Kingdom																	
Galloper Offshore Wind Farm Export Cable	TCE data	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.	Offshore Wind Farm Export Cables	Under Construction													
Greater Gabbard Offshore Wind Farm Export Cable	TCE data	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.	Offshore Wind Farm Export Cables	Active													
Gunfleet Sands Demo Offshore Wind Farm Export Cable	TCE data	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.	Offshore Wind Farm Export Cables	Active													
Gunfleet Sands Offshore Wind Farm Export Cable	TCE data	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.	Offshore Wind Farm Export Cables	Active													
Kentish Flats Offshore Wind Farm Export Cable	TCE data	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.	Offshore Wind Farm Export Cables	Active													
London Array Offshore Wind Farm Export Cable	TCE data	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.	Offshore Wind Farm Export Cables	Active													
Nemo Interconnector Cable	Project website	High - Project details published in the public domain and confirmed as being 'accurate' by developer.	1 GW Interconnector Cable	Under Construction													
Thanet Offshore Wind Farm Export Cable	TCE data	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.	Offshore Wind Farm Export Cables	Active													
Thanet Offshore Wind Farm Export Cable Replacement	No	High - Project details confirmed as being 'accurate' by developer.	Offshore Wind Farm Export Cables	Pre-planning application													
Undefined country																	
UK-FR4 (SigCables)	Emodnet data (SigCables)	Medium - Third party project details published in the public domain but not confirmed as 'accurate' by the developer	Submarine Telecoms Cable	Active													
SEA ME WE3-S10.2 (SigCables)	Emodnet data (SigCables)	Medium - Third party project details published in the public domain but not confirmed as 'accurate' by the developer	Submarine Telecoms Cable	Active													
Tangerine (KIS-ORCA)	Emodnet data (KIS-ORCA)	Medium - Third party project details published in the public domain but not confirmed as 'accurate' by the developer	Submarine Cable	Active													
ULYSSES (KIS-ORCA)	Emodnet data (KIS-ORCA)	Medium - Third party project details published in the public domain but not confirmed as 'accurate' by the developer	Submarine Cable	Active													
Atlantic Crossing-1 (AC-1)	Emodnet data (Telecommunication Cable Schematics)	Medium - Third party project details published in the public domain but not confirmed as 'accurate' by the developer	Submarine Telecoms Cable	Active													
Pan European Crossing (UK-Belgium)	Emodnet data (Telecommunication Cable Schematics)	Medium - Third party project details published in the public domain but not confirmed as 'accurate' by the developer	Submarine Telecoms Cable	Active													
SeaMeWe-3	Emodnet data (Telecommunication Cable Schematics)	Medium - Third party project details published in the public domain but not confirmed as 'accurate' by the developer	Submarine Telecoms Cable	Active													
TAT-14	Emodnet data (Telecommunication Cable Schematics)	Medium - Third party project details published in the public domain but not confirmed as 'accurate' by the developer	Submarine Telecoms Cable	Active													

Cables and Pipelines - Spatial and Screening

	Included as part of the topic baseline and hence not considered within the cumulative impact assessment.
	Part of the baseline but has an ongoing impact and is therefore considered relevant to the cumulative impact assessment: ***Screened in to assessment.***
	Potential cumulative impact exists: ***Screened in to assessment.***
	No conceptual effect-receptor pathway: ***Screened out of assessment.***
	Low data confidence: ***Screened out of assessment.***
	No physical effect-receptor overlap: ***Screened out of assessment.***
	No temporal overlap: ***Screened out of assessment.***
	Project has been withdrawn from development or operation

Project	Distance from the TEOW Array Area (km)	Distance from the TEOW Offshore Export Cable Route Corridor (km)	Status of Development	Data Confidence	Marine Processes	Benthic and Intertidal Ecology	Fish & Shellfish Ecology	Marine Mammals	Ornithology	Commercial Fisheries	Shipping & Navigation	Aviation, Military & Communications	Marine Archaeology	Infrastructure & Other Users
Galloper Offshore Wind Farm Export Cable	44	55	Under Construction	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.										
Greater Gabbard Offshore Wind Farm Export Cable	39	50	Active	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.										
Gunfleet Sands Demo Offshore Wind Farm Export Cable	37	44	Active	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.										
Gunfleet Sands Offshore Wind Farm Export Cable	39	46	Active	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.										
Kentish Flats Offshore Wind Farm Export Cable	28	19	Active	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.										
London Array Offshore Wind Farm Export Cable	13	17	Active	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.										
Nemo Interconnector Cable	5	0	Under Construction	High - Project details published in the public domain and confirmed as being 'accurate' by developer.										
Thanet Offshore Wind Farm Export Cable	0	0	Active	High - Third party project details published in the public domain and confirmed as being 'accurate' by TCE.										
Thanet Offshore Wind Farm Export Cable Replacement	0	0	Pre-planning application	High - Project details confirmed as being 'accurate' by developer.										
Undefined country														
UK-FR4 (SigCables)	31	28	Active	Medium - Third party project details published in the public domain but not confirmed as 'accurate' by the developer										
SEA ME WE3-S10.2 (SigCables)	32	33	Active	Medium - Third party project details published in the public domain but not confirmed as 'accurate' by the developer										
Tangerine (KIS-ORCA)	3	0	Active	Medium - Third party project details published in the public domain but not confirmed as 'accurate' by the developer										
ULYSSES (KIS-ORCA)	30	12	Active	Medium - Third party project details published in the public domain but not confirmed as 'accurate' by the developer										
Atlantic Crossing-1 (AC-1)	29	33	Active	Medium - Third party project details published in the public domain but not confirmed as 'accurate' by the developer										
Pan European Crossing (UK-Belgium)	4	0	Active	Medium - Third party project details published in the public domain but not confirmed as 'accurate' by the developer										
SeaMeWe-3	22	27	Active	Medium - Third party project details published in the public domain but not confirmed as 'accurate' by the developer										
TAT-14	28	33	Active	Medium - Third party project details published in the public domain but not confirmed as 'accurate' by the developer										

Shipping and Navigation - Temporal

	Consenting/Pre-Construction
	Construction
	Operation and Maintenance
	Decommissioning

Project	Information in the Public Domain	Data Confidence Assessment	Status of Development	Construction Period (red outline denotes the construction period for TEOW)												
				2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029-2050
United Kingdom																
BOSTON	Port/Harbour information - Port website	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.	Operational													
CHATHAM DOCKS	Port/Harbour information - Port website	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.	Operational													
COLCHESTER	Port/Harbour information - Port website	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.	Operational													
COWES HARBOUR	Port/Harbour information - Port website	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.	Operational													
DOVER HARBOR	Port/Harbour information - Port website	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.	Operational													
FAWLEY MARINE TERMINAL	Port/Harbour information - Port website	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.	Operational													
FELIXSTOWE	Port/Harbour information - Port website	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.	Operational													
FOLKESTONE HARBOUR	Port/Harbour information - Port website	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.	Operational													
GRAVESEND	Port/Harbour information - Port website	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.	Operational													
GREAT YARMOUTH	Port/Harbour information - Port website	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.	Operational													
HARWICH	Port/Harbour information - Port website	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.	Operational													

Project	Information in the Public Domain	Data Confidence Assessment	Status of Development	Construction Period (red outline denotes the construction period for TEOW)												
				2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029-2050
IPSWICH	Port/Harbour information - Port website	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.	Operational													
ISLE OF GRAIN	Port/Harbour information - Port website	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.	Operational													
KING'S LYNN	Port/Harbour information - Port website	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.	Operational													
LITTLEHAMPTON HARBOUR	Port/Harbour information - Port website	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.	Operational													
LONDON	Port/Harbour information - Port website	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.	Operational													
LOWESTOFT	Port/Harbour information - Port website	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.	Operational													
NEWHAVEN HARBOUR	Port/Harbour information - Port website	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.	Operational													
PORTSMOUTH HARBOUR	Port/Harbour information - Port website	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.	Operational													
RAMSGATE	Port/Harbour information - Port website	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.	Operational													
RYE HARBOUR	Port/Harbour information - Port website	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.	Operational													
SHEERNESS	Port/Harbour information - Port website	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.	Operational													
SHOREHAM HARBOUR	Port/Harbour information - Port website	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.	Operational													
SOUTHAMPTON	Port/Harbour information - Port website	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.	Operational													
THAMESPORT	Port/Harbour information - Port website	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.	Operational													

Project	Information in the Public Domain	Data Confidence Assessment	Status of Development	Construction Period (red outline denotes the construction period for TEOW)												
				2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029-2050
TILBURY	Port/Harbour information - Port website	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.	Operational													
WHITSTABLE	Port/Harbour information - Port website	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.	Operational													
WISBECH	Port/Harbour information - Port website	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.	Operational													
Belgium																
ANTWERP	Port/Harbour information - Port website	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.	Operational													
BRUGES	Port/Harbour information - Port website	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.	Operational													
BRUSSELS	Port/Harbour information - Port website	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.	Operational													
GHENT	Port/Harbour information - Port website	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.	Operational													
NIEUWPOORT	Port/Harbour information - Port website	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.	Operational													
OOSTENDE	Port/Harbour information - Port website	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.	Operational													
ZEEBRUGGE	Port/Harbour information - Port website	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.	Operational													
France																
BOULOGNE-SUR-MER	Port/Harbour information - Port website	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.	Operational													
CALAIS	Port/Harbour information - Port website	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.	Operational													
DIEPPE	Port/Harbour information - Port website	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.	Operational													

Project	Information in the Public Domain	Data Confidence Assessment	Status of Development	Construction Period (red outline denotes the construction period for TEOW)												
				2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029-2050
DUNKERQUE PORT EST	Port/Harbour information - Port website	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.	Operational													
DUNKERQUE PORT OUEST	Port/Harbour information - Port website	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.	Operational													
FECAMP	Port/Harbour information - Port website	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.	Operational													
GRAVELINES	Port/Harbour information - Port website	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.	Operational													
LE TREPORT	Port/Harbour information - Port website	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.	Operational													
PORT DU HAVRE-ANTIFER	Port/Harbour information - Port website	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.	Operational													
SAINT-VALERY-SUR-SOMME	Port/Harbour information - Port website	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.	Operational													
Netherlands																
EUROPOORT	Port/Harbour information - Port website	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.	Operational													
HANSWEERT	Port/Harbour information - Port website	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.	Operational													
HOEK VAN HOLLAND	Port/Harbour information - Port website	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.	Operational													
MAASSLUIS	Port/Harbour information - Port website	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.	Operational													
ROTTERDAM	Port/Harbour information - Port website	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.	Operational													
SCHEVENINGEN	Port/Harbour information - Port website	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.	Operational													
SCHIEDAM	Port/Harbour information - Port website	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.	Operational													

Project	Information in the Public Domain	Data Confidence Assessment	Status of Development	Construction Period (red outline denotes the construction period for TEOW)												
				2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029-2050
TERNEUZEN	Port/Harbour information - Port website	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.	Operational													
VLAARDINGEN	Port/Harbour information - Port website	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.	Operational													
VLISSINGEN	Port/Harbour information - Port website	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.	Operational													

Shipping and Navigation - Spatial and Screening

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

Project	Distance from the TEOW Array Area (km)	Distance from the TEOW Offshore Export Cable Route Corridor (km)	Status of Development	Data Confidence	Marine Processes	Benthic Ecology	Fish & Shellfish Ecology	Marine Mammals	Ornithology	Commercial Fisheries	Shipping & Navigation	Aviation, Military & Communications	Marine Archaeology	Infrastructure & Other Users	Landscape and Visual
United Kingdom															
BOSTON	198	206	Operational	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.											
CHATHAM DOCKS	67	57	Operational	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.											
COLCHESTER	64	69	Operational	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.											
COWES HARBOUR	211	196	Operational	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.											
DOVER HARBOR	35	17	Operational	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.											
FAWLEY MARINE TERMINAL	211	197	Operational	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.											
FELIXSTOWE	56	64	Operational	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.											
FOLKESTONE HARBOUR	44	24	Operational	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.											
GRAVESEND	80	71	Operational	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.											
GREAT YARMOUTH	129	136	Operational	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.											
HARWICH	57	65	Operational	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.											

Project	Distance from the TEOW Array Area (km)	Distance from the TEOW Offshore Export Cable Route Corridor (km)	Status of Development	Data Confidence	Marine Processes	Benthic Ecology	Fish & Shellfish Ecology	Marine Mammals	Ornithology	Commercial Fisheries	Shipping & Navigation	Aviation, Military & Communications	Marine Archaeology	Infrastructure & Other Users	Landscape and Visual
IPSWICH	70	78	Operational	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.											
ISLE OF GRAIN	57	48	Operational	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.											
KING'S LYNN	163	171	Operational	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.											
LITTLEHAMPTON HARBOUR	161	145	Operational	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.											
LONDON	111	102	Operational	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.											
LOWESTOFT	113	121	Operational	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.											
NEWHAVEN HARBOUR	126	108	Operational	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.											
PORTSMOUTH HARBOUR	197	182	Operational	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.											
RAMSGATE	13	1	Operational	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.											
RYE HARBOUR	77	57	Operational	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.											
SHEERNESS	53	45	Operational	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.											
SHOREHAM HARBOUR	142	125	Operational	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.											
SOUTHAMPTON	213	198	Operational	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.											
THAMESPORT	57	48	Operational	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.											

Project	Distance from the TEOW Array Area (km)	Distance from the TEOW Offshore Export Cable Route Corridor (km)	Status of Development	Data Confidence	Marine Processes	Benthic Ecology	Fish & Shellfish Ecology	Marine Mammals	Ornithology	Commercial Fisheries	Shipping & Navigation	Aviation, Military & Communications	Marine Archaeology	Infrastructure & Other Users	Landscape and Visual
TILBURY	82	73	Operational	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.											
WHITSTABLE	35	23	Operational	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.											
WISBECH	165	171	Operational	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.											
Belgium															
ANTWERP	188	197	Operational	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.											
BRUGES	107	114	Operational	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.											
BRUSSELS	195	201	Operational	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.											
GHENT	147	154	Operational	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.											
NIEUWPOORT	79	85	Operational	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.											
OOSTENDE	86	94	Operational	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.											
ZEEBRUGGE	103	112	Operational	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.											
France															
BOULOGNE-SUR-MER	72	60	Operational	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.											
CALAIS	47	45	Operational	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.											
DIEPPE	165	149	Operational	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.											

Project	Distance from the TEOW Array Area (km)	Distance from the TEOW Offshore Export Cable Route Corridor (km)	Status of Development	Data Confidence	Marine Processes	Benthic Ecology	Fish & Shellfish Ecology	Marine Mammals	Ornithology	Commercial Fisheries	Shipping & Navigation	Aviation, Military & Communications	Marine Archaeology	Infrastructure & Other Users	Landscape and Visual
DUNKERQUE PORT EST	61	66	Operational	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.											
DUNKERQUE PORT OUEST	58	63	Operational	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.											
FECAMP	200	181	Operational	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.											
GRAVELINES	52	54	Operational	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.											
LE TREPORT	147	133	Operational	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.											
PORT DU HAVRE-ANTIFER	219	200	Operational	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.											
SAINT-VALERY-SUR-SOMME	133	121	Operational	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.											
Netherlands															
EUROPOORT	174	185	Operational	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.											
HANSWEERT	158	167	Operational	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.											
HOEK VAN HOLLAND	175	186	Operational	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.											
MAASSLUIS	182	193	Operational	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.											
ROTTERDAM	197	208	Operational	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.											
SCHEVENINGEN	190	201	Operational	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.											
SCHIEDAM	192	202	Operational	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.											

Project	Distance from the TEOW Array Area (km)	Distance from the TEOW Offshore Export Cable Route Corridor (km)	Status of Development	Data Confidence	Marine Processes	Benthic Ecology	Fish & Shellfish Ecology	Marine Mammals	Ornithology	Commercial Fisheries	Shipping & Navigation	Aviation, Military & Communications	Marine Archaeology	Infrastructure & Other Users	Landscape and Visual
TERNEUZEN	146	155	Operational	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.											
VLAARDINGEN	188	199	Operational	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.											
VLISSINGEN	130	140	Operational	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.											

Military, Aviation and Radar - Temporal

	Consenting/Pre-Construction
	Construction
	Operation and Maintenance
	Decommissioning

Project	Information in the Public Domain	Data Confidence Assessment	Capacity/ scale	Status of Development	Construction Period (red outline denotes the construction period for TEOW)												
					2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029 - 2050
UK military bases	Royal Navy Data	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.	The three main Naval Bases are the home to the Royal Navy's surface and submarine fleet of ships. Portsmouth, Devonport and Clyde Naval Bases offer support to their base ships in the areas of personnel, engineering and supplies. Yeovilton air station is base to RN Naval Helicopter Squadrons and other fixed wing aircraft. Culdrose air station supports the Anti-Submarine Warfare and Airborne Early Warning Helicopter Squadrons of the Royal Navy. The principal function of Dartmouth College is the training of young officers for service in the Royal Navy. HMS COLLINGWOOD (FAREHAM), HMS Excellent (Portsmouth), HMS Raleigh (Torpoint), HMS Sultan (Gosport), and HMS Temeraire (Portsmouth) are also important UK naval establishments.	Operational											

Military, Aviation and Radar - Spatial and Screening

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

Project	Distance from TEOW Array Area (km)	Distance from TEOW Cable Route Search Area (km)	Status of Development	Data Confidence	Marine Processes	Benthic Ecology	Fish & Shellfish Ecology	Marine Mammals	Ornithology	Commercial Fisheries	Shipping & Navigation	Aviation, Military & Communications	Marine Archaeology	Infrastructure & Other Users	Landscape and Visual
UK military bases	No Data in GIS	No Data in GIS	Operational	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.											

Coastal - Temporal

	Consenting/Pre-Construction
	Construction
	Operation and Maintenance
	Decommissioning

Project	Information in the Public Domain	Data Confidence Assessment	Capacity/ scale	Status of Development	Construction Period Construction Period (red outline denotes the construction period for TEOW)												
					2017	2018	2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029 - 2050
United Kingdom																	
Extension of an existing pontoon	Planning application: http://www.planning.colchester.gov.uk/WAM/showCaseFile.do;jsessionid=2BB605B4F1E295DC830EDF5449000F8C?action=show&appType=Planning&appNumber=170230	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'.	Extending the existing pontoon by 1.6m width and 43m length	Approved													
Creation of an enhanced saline pool and wetlad habitats using natural materials	Planning application: https://cloud2.atriumsoft.com/KCCePlanningOPS/loadFullDetails.do?aplId=60889	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'.	Part fo a wider scheme to construction 230 hectares of saline and wetland habitat in historical clay extraction pits	Approved													
Identification of a new disposal site	Marine licence application: https://marinelicensing.marinemanagement.org.uk/mmofox5/fox/live/	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'.	Identification of a new disposal site for the maintenance dredging material, closer to shore than the existing disposal site at the Inner Gabbard	Approved													

Coastal - Spatial and Screening

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

Project	Distance from TEOW Array Area (km)	Distance from TEOW Cable Route Search Area (km)	Status of Development	Data Confidence	Marine Processes	Benthic Ecology	Fish & Shellfish Ecology	Marine Mammals	Ornithology	Commercial Fisheries	Shipping & Navigation	Aviation, Military & Communications	Marine Archaeology	Infrastructure & Other Users	Landscape and Visual
United Kingdom															
Extension of an existing pontoon	57	60	Approved	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'.											
Creation of an enhanced saline pool and wetlad habitats using natural materials	72	63	Approved	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'.											
Identification of a new disposal site	46	55	Approved	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'.											