

## Awel y Môr Offshore Wind Farm

## Category 6: Environmental Statement

Volume 1, Annex 3.1: Cumulative Effects Assessment Methodology

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## CUMULATIVE EFFECTS ASSESSMENT METHODOLOGY

RWE Renewables UK Limited Awel y Môr Offshore Wind Farm

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# GoBe

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### Glossary

Term	Definition
AyM	The Awel y Môr Offshore Wind Farm project.
Export Cable Corridor (ECC)	The area(s) where the export cables will be located.
Development Consent Order (DCO)	An order made under the Planning Act 2008 granting development consent for a Nationally Significant Infrastructure Project (NSIP) from the relevant Secretary of State (SoS).
Design envelope/ Maximum Design Scenario (MDS)	The maximum design parameters of the combined project assets that result in the greatest potential for change in relation to the impacts assessed.
Environmental Statement (ES)	A document reporting the findings of the Environmental Impact Assessment (EIA) in accordance with the Infrastructure Planning (Environmental Impact Assessment) Regulations 2017.
Marine Licence	A licence required under the Marine and Coastal Access Act 2009 for marine works which is administered by the Natural Resources Wales (NRW) Marine Licensing Team (MLT) on behalf of the Welsh Ministers.
Preliminary Environmental Information Report (PEIR)	Preliminary Environmental Information Report. The PEIR was written in the style of a draft Environmental Statement (ES) and formed the basis of statutory consultation. Following that consultation, the PEIR documentation was updated into the final ES that accompanies the applications for the Development Consent Order (DCO) and Marine Licence.

### Acronyms and Abbreviations

Term	Definition
AfL	Agreement for Lease
BEIS	Business, Energy and Industrial Strategy
CEA	Cumulative Effects Assessment
DCO	Development Consent Order
ECC	Export Cable Corridor
EIA	Environmental Impact Assessment
ES	Environmental Statement
ETG	Expert Topic Groups
HRA	Habitats Regulations Assessment
MDS	Maximum Design Scenario
MHWS	Mean High Water Springs

MPS	Marine Policy Statement
NPS	National Policy Statement
NRW	Natural Resource Wales
NSIP	Nationally Significant Infrastructure Project
0&M	Operation and maintenance
OWF	Offshore Wind Farm
PEIR	Preliminary Environmental Information Report
PINS	Planning Inspectorate
RIAA	Report to Inform the Appropriate Assessment
SoS	Secretary of State
SSC	Suspended Sediment Concentrations
WNMP	Welsh National Marine Plan
Zol	Zone of Influence
ZTV	Zone of Theoretical Visibility

### Units

Unit	Definition
km	Kilometre
m	Metre



### 1 Introduction

### 1.1 Background

- 1 Cumulative effects are defined as the effects on a receptor that may arise when the development is considered together with other existing and/ or approved projects, plans and activities. A fundamental requirement of undertaking the Cumulative Effects Assessment (CEA) is to identify those projects, plans and activities with which Awel y Môr Offshore Wind Farm (AyM) may interact to produce a cumulative effect. These interactions may arise within the construction and operation and maintenance (O&M) phases of the project. Please note that due to the anticipated lifetime of the project (anticipated to be 25 years), it is not possible to undertake a meaningful assessment of potential cumulative effects for the decommissioning phase at this time, which is in line with common practice for Nationally Significant Infrastructure Projects (NSIPs).
- 2 The objective of this document is to provide details on the proposed methodology for AyM for each of the assessments, justification for the approach taken regarding cumulative impacts, and to detail the longlist of projects, plans and activities that have been considered within the assessments. The approach for cumulative impacts is based upon the Planning Inspectorate (PINS) Advice Note 17: Cumulative Effects Assessment, which is described in further detail in Section 2. The approach to the CEA is intended to be specific to AyM and takes account of the extensive available knowledge of the environment and of the other activities in the vicinity of AyM.

# 1.2 Definitions of cumulative and in-combination effects for AyM

3 The Environmental Statement (ES) sets out the findings of the Environmental Impact Assessment (EIA) to support the DCO and Marine Licence application. The focus of the EIA is on the assessment of the environmental impacts which are likely to have significant effects on the environment including an assessment of cumulative effects. For the purpose of the CEA process, cumulative effects are defined as effects upon certain receptors from AyM when considered alongside other proposed developments and any other reasonably foreseeable projects and activities. This includes all projects that result in a comparative or ongoing effect and is not restricted to offshore wind farms, offshore and onshore electrical systems, or projects that are precommencement.



- 4 In-combination effects are defined as the combined effect of AyM, with the effects from a number of different projects, on the integrity of European Sites designated for their nature conservation value in terms of the Habitats Regulations Assessment (HRA). The methodology for in-combination effects is bespoke to the HRA process (though it will draw on many of the same data sources presented in this document) and is presented separately within the Report to Inform the Appropriate Assessment (RIAA). This document, therefore, presents the first stages of the CEA for the EIA only.
- 5 In short, cumulative effects apply in the EIA, whilst in-combination effects apply to the RIAA in HRA terms. These definitions are consistent with those provided by PINS in Advice Note 17 and have been applied throughout the ES documentation.



### 2 Policy and legislative context

- 6 The Planning Act 2008 underpins the consenting regime for NSIPs. The PA 2008 sets out thresholds above which certain types of development are classified as NSIPs and therefore require a DCO in England and Wales. For offshore energy developments in Welsh waters (including offshore wind), projects are classed as NSIPs if they have a generating capacity of over 350 megawatts (MW) under section 15(3B) of the PA 2008. AyM will exceed this generating capacity and therefore is classed as an NSIP.
- 7 The Infrastructure Planning (Environmental Impact Assessment) Regulations 2017 (the 'EIA Regulations') implement the requirements of the EIA Directive (Directive 2014/52/EU) into UK law in respect of NSIPs. Since the offshore components of the project will be constructed within Welsh waters, Awel y Môr Offshore Wind Farm Limited ('the Applicant') will also require a Marine Licence from Natural Resources Wales (NRW) under the Marine and Coastal Access Act 2009 (MCAA), which necessitates an EIA to be carried out under the Marine Works (Environmental Impact Assessment) Regulations 2007.
- 8 A CEA is required under Schedule 4, Paragraph 5(e) and Schedule 3, Paragraph 3(2)(e) of the EIA Regulations and the Marine Works (EIA) Regulations 2017, respectively.
- 9 The National Policy Statements (NPSs) set out national (UK) policy relating to NSIPs. In line with the Energy White Paper, the NPSs are currently undergoing revision following consultation in late 2021. This document and the ES refer primarily to the extant NPSs, as these remain the primary policy tests of relevance. The draft NPSs are however referred to throughout the ES when relevant.
- 10 The Overarching NPS for Energy (EN-1) states at paragraph 4.2.5: "When considering cumulative effects, the ES should provide information on how the effects of the applicant's proposal would combine and interact with the effects of other development (including projects for which consent has been sought or granted, as well as those already in existence).
- 11 The NPS for Renewable Energy Infrastructure (EN-3) states at paragraph 2.6.169: "In considering what interference, obstruction or danger to navigation and shipping is likely and its extent and nature, the IPC should have regard to the likely overall effect of the development in question and to any cumulative effects of other relevant proposed, consented and operational offshore wind farms."



- 12 The Overarching NPS for Energy (EN-1), the NPS for Renewable Energy Infrastructure (EN-3) and the NPS for Electricity Networks Infrastructure (EN-5) and their respective drafts identify the need to address the maximum potential adverse impacts. Matters considered to affect the maximum adverse impact are topic impacts, interrelationships between topics, and cumulative impacts. The Maximum Design Scenario (MDS), or envelope, is also sometimes referred to as the 'Rochdale Envelope'.
- 13 PINS has produced 'Advice Note 9: Rochdale Envelope' (2018) setting out the views of PINS regarding how this approach should be used in the context of the Planning Act 2008. The Rochdale Envelope approach is a well-understood concept that involves ensuring that any EIA is based on assessing the realistic MDS where flexibility or a range of options is sought as part of the consent application. This guidance confirms that in order to ensure a robust application of the Rochdale Envelope principle to the EIA process, this principle must also be applied to the CEA as well as the assessment of project specific, individual effects.
- 14 PINS has produced 'Advice Note 17: Cumulative Effects Assessment' (December 2019), which provides guidance on a staged process that can be used for cumulative effects assessments for NSIPs. Advice Note 17 details a four-step process that can be followed by developers and which has been applied here. The proposed methodology is outlined in Section 3 below.

#### Marine policy context

15 The Government's Marine Policy Statement (MPS) sets out the need to address cumulative impacts or effects, stating in paragraph 2.3.2.1: *"when considering potential benefits and adverse effects, decision-makers should also consider any multiple and cumulative impacts of proposals in the light of other projects and activities"*.

#### Welsh policy

- 16 The Welsh National Marine Plan (WNMP), published in November 2019, contains policies across a range of considerations (including nature conservation, sustainable use, seascape, and coastal communities and economic growth). The WNMP includes sector objectives for renewable energy to support decarbonisation of the Welsh economy and the use of marine renewable energy generation (including offshore wind farms).
- 17 The WNMP also sets out a need for proposals to address cumulative effects as stated in Policy Aim 219: "proposals should demonstrate that they have considered any multiple and cumulative effects of proposals including those associated with other (including known, planned) projects and activities".

### 3 Consultation

- 18 The CEA is the subject of detailed discussion between the Applicant, NRW and various statutory and non-statutory authorities and stakeholders. This consultation has been captured under the auspices of the Evidence Plan process, via focused Expert Topic Groups (ETGs), as well as technical consultation working groups.
- A summary of consultation as related to the CEA to date is provided in Table 3.1 below.

Consultee, forum and date	Comment	Response to issue and/or where addressed
PINS Scoping Opinion (general comments) July 2020	The ES should include an assessment of cumulative effects for all aspects and matters where significant effects are likely to occur. The assessment of cumulative effects should not be limited to one particular development type and should instead focus on the potential for overlapping impacts and LSEs. The Inspectorate encourages the use of the advice contained in its Advice Note 17 regarding the approach to the assessment of cumulative effects.	A CEA has been included in the CEA sections of all EIA topics where significant effects are likely to occur. This document outlines the 'other development' types that are considered alongside AyM and this includes multiple development types as outlined in Section 4.2.1. The methodology for determining the potential for cumulative effects is described in Section 1.1 of this document. As described in Section 2, the CEA follows PINS Advice Note 17.
PINS Scoping Opinion (airborne noise and vibration) July 2020	The ES should explain how the cumulative assessment has identified those projects or activities which overlap with the zone of influence of the Proposed Development and how all potential contributions have been considered.	A cumulative impact assessment has been undertaken in the ES to address any significant development projects or activities which may overlap with the zone of influence of the Proposed Development.
PINS Scoping Opinion (air quality) July 2020	The approach to the assessment of cumulative effects should be in accordance with the advice contained in paragraph 3.3.3 (see comment in first row of this table).	The CEA has been undertaken in accordance with this comment. The projects of interest have been determined through consultation with the relevant local planning authorities, based upon their temporal and spatial relevance to the project, and whether they represent a potential for cumulative effects.
PINS Scoping Opinion (public health)	The Inspectorate does not consider that sufficient evidence has been provided to	The Applicant has provided a proportionate consideration of

Table 3.1: Consultation relating to the CEA.



Consultee,	Comment	Response to issue and/or where
forum and		addressed
date		
July 2020	support scoping out EMF cumulative effects during operation.	potential cumulative effects associated with EMF.
PINS Scoping Opinion (physical processes) July 2020	The Inspectorate does not agree that cumulative impacts identified in the Scoping Report (paragraphs 333 -336) can be scoped out (reason noted in paragraph 3.3.3 of this Scoping Log - see comment in first row of this table).	A combination of project, site specific modelling, and spring tidal excursion ellipse buffers (approx. 15 km) have been used to establish the zone of influence around AyM. This approach has beenused to determine the potential for sediment plume interaction with other projects.
PINS Scoping Opinion (marine water and sediment quality) July 2020	The Inspectorate does not agree that cumulative impacts identified in the Scoping Report (paragraphs 373 -374) can be scoped out (reason noted in paragraph 3.3.3 of this Scoping Log - see comment in first row of this table).	A CEA for marine water and sediment quality has been scoped in.
PINS Scoping Opinion (benthic subtidal and intertidal ecology) July 2020	The Inspectorate does not agree that cumulative impacts identified in the Scoping Report (paragraphs 424) can be scoped out (reason noted in paragraph 3.3.3 of this Scoping Log - see comment in first row of this table).	Although significant effects are not anticipated, a CEA for benthic subtidal and intertidal ecology has been scoped in.
PINS Scoping Opinion (fish and shellfish ecology) July 2020	The Inspectorate does not agree that cumulative impacts identified in the Scoping Report (paragraphs 446) can be scoped out (reason noted in paragraph 3.3.3 of this Scoping Log - see comment in first row of this table).	Although significant effects are not anticipated, a CEA for fish and shellfish ecology has been scoped in.
PINS Scoping Opinion (marine mammals) July 2020	The Inspectorate does not agree that cumulative impacts identified in the Scoping Report (paragraphs 523) can be scoped out (reason noted in paragraph 3.3.3 of this Scoping Log - see comment in first row of this table).	A CEA for marine mammals has been scoped in.
PINS Scoping Opinion (offshore ornithology) July 2020	The Inspectorate does not agree that cumulative impacts identified in the Scoping Report (paragraphs 559-566) can be scoped out (reason noted in paragraph 3.3.3 of this Scoping Log - see comment in first row of this table).	Although significant effects are not anticipated, a CEA for offshore ornithology has been scoped in.
PINS Scoping Opinion (SLVIA) July 2020	The Inspectorate does not agree that cumulative impacts should be limited to only other development in the form of offshore wind turbine development	A CEA has been scoped in for SLVIA.



Consultee,	Comment	Response to issue and/or where
forum and date		addressed
	(reason noted in paragraph 3.3.3 of this Scoping Log - see comment in first row of this table).	
PINS Scoping Opinion (other marine users and activities) July 2020	The Inspectorate agrees that where no pathway for effect exists that cumulative effects on other users can be scoped out. Where a pathway does exist the likelihood of significant cumulative effects should be assessed in the ES.	This is noted by the Applicant and has been applied in the ES.
NRW comments on Cumulative Effects Assessment Methodology, December 2020)	It was requested that the following projects be added to the CEA longlist: - Port of Mostyn Tidal Lagoon; - Mersey Tidal Lagoon; - Greenlink Interconnector; - Morlais Tidal Development Zone; and - Firing ranges at Aberporth and Castlemartin.	These projects have been added to the CEA longlist (Appendix A to this document).
NRW comments on Cumulative Effects Assessment Methodology, December 2020)	It should be clarified what evidence has been used to determine the 15 km excursion extent for marine physical processes.	As described in Volume 2, Chapter 2: Marine Geology, Oceanography and Physical Processes, the limit of the tidal excursion is informed by modelling has concluded a ZoI of up to 12 km around the array and offshore ECC. Prior to this, the initial screening range of 15 km was used as a precautionary range before modelling was completed.
NRW comments on Cumulative Effects Assessment Methodology, December 2020)	Concerns that there may be offshore energy projects further away than 500 km which could be impacting upon some bird species from Welsh seabird sites. The potential effects should be looked at for each site on a case-by-case basis and should be based on a suitable evidence base, e.g. tagging and tracking studies, foraging ranges and the relevant BDMPS (Furness 2015).	The CEA in the EIA looks at impacts directly on birds as a receptor in their own right. Impacts to designated sites are dealt with through the in-combination assessment in the RIAA. The EIA screening range for ornithology is set at 'species dependent on foraging range'. For some species, this extends beyond 500 km, but in most cases it has been considered more appropriate to consider the regional geographic population.
S42 Denbighshire County Council comments on	The CEA should include the enabling works at the National Grid substation, all existing substations and energy related infrastructure with a worst-case	These have since been included within the cumulative effects assessments of the relevant ES chapters.



Consultee, forum and date	Comment	Response to issue and/or where addressed
Cumulative Effects Assessment November 2021	scenario and in relation to the proposed onshore substation site.	
S42 Denbighshire County Council comments on Cumulative Effects Assessment November 2021	Denbighshire County Council supplied a list of onshore developments that they propose should be included in the CEA longlist appendix, including development applications submitted since January 2018, such as pre- application major schemes and plans pending determination.	The recommended projects have been added to the CEA longlist (Appendix A to this document).



# 4 Approach to cumulative effects assessment

### 4.1 Overview

- 20 Cumulative effects refer to effects upon receptors arising from AyM when considered alongside all existing, and/ or reasonably foreseeable projects, plans and activities that results in a cumulative effect with any element of AyM. It should be noted that existing projects are generally considered to be part of the existing baseline environment, except in cases where there is an ongoing effect; examples are loss of benthic habitat for an existing (offshore wind) project will generally form part of the baseline as the habitat was lost at that stage, whereas ongoing bird collisions associated with the same project would be considered ongoing. The exact approach taken by each technical topic is described within the CEA section of the relevant ES chapters.
- 21 The cumulative effects arising as a result of AyM is a required part of the EIA as described in Section 2. PINS Advice Note 17: Cumulative Effect Assessment provides guidance on a staged process that can be used for CEAs for NSIPs, which is described below in Table 4.1.

CEA Stage	Activity
Stage 1 – Establish the project's Zone of Influence (ZoI) and identify a longlist of 'other development'	The Project undertakes a desk study to identify the Zol for the development for the topics that are proposed to be scoped into the EIA. The Zol analysis is documented (i.e. table of topics and Zol), with supporting mapping. The longlist of other plans and projects/activities is drawn up through a desk study of planning applications, development plan documents, relevant development frameworks and any other available sources to identify 'other development' within the Zol. Information on each project (location, development type and timing, etc.) is documented, along with the certainty or tier assigned to the 'other development' (i.e. confidence it will take place in the current form and when it will take place in relation to the project). Advice Note 17 notes that the project should then consult with the relevant planning authority/ authorities and statutory consultees regarding the longlist (and ideally prior to the submission of the Scoping Report <sup>1</sup> ).

#### Table 4.1: Stages of the CEA process.

<sup>&</sup>lt;sup>1</sup> Note that AyM did not provide a longlist for consideration at Scoping for cumulative issues, this was prepared for consultation at the PEIR stage.

CEA Stage	Activity
Stage 2 – Screening of longlist: Identify a shortlist of 'other development' for the CEA	PINS has provided inclusions/ 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. It is noted that documented information on each of the 'other developments' is likely to be high level at this stage, outlining the key issues to take forward. Advice Note 17 notes that the proposed inclusion/ exclusion should ideally be finalised prior to the request for a Scoping Opinion, and the project must consult with the relevant planning authorities and statutory consultees regarding the shortlist <sup>2</sup> ).
Stage 3 – Information gathering	All available information on the 'other developments' within the shortlist generated at Stage 2 is collated to inform the CEA.
Stage 4 – Assessment	The project reviews each of the 'other developments' in turn to assess whether cumulative effects may arise. This should also include, where relevant, consideration of any mitigation measures where adverse cumulative effects are identified and should clearly signpost to the relevant means of securing mitigation (e.g. DCO requirements and 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 (via professional judgement). This may, however, be useful during the consultation with other developers to identify ways to jointly address mitigation measures to be implemented to reduce likely significant adverse cumulative effects.

22 The following sections set out the AyM approach to completing Stages 1 to 3 (as described in Table 4.1 above), incorporating the development of the longlist (Appendix A), tiering of projects and the development of the topic-specific shortlists. These shortlists have been considered in detail in each of the topic-specific ES chapters to complete CEA Stage 4.

<sup>&</sup>lt;sup>2</sup> Note that Awel y Môr OWF did not provide a longlist for consideration at Scoping for cumulative issues,



# 4.2 Stage 1 – Establish the ZoIs and identify the longlist of 'other development'

#### 4.2.1 Developing the longlist

23 Under the first stage of the offshore CEA, a longlist of relevant projects, plans and activities occurring within a large study area around AyM array area and its associated export cable corridor (ECC) have been developed. Depending on the type of project, this generally encompasses a large area of the Irish Sea (offshore) (Table 4.2) and parts of North Wales (onshore) (Table 4.3). The longlist (Appendix A) includes the details of the relevant operational or planned projects, plans and activities including those in the UK and adjoining international jurisdictions and has been based on publicly available information available at the time of preparation.

#### Offshore

- 24 The longlist, seaward of Mean High-Water Springs (MHWS) has been produced based on the scale of other projects and the potential for them to produce cumulative effects with AyM. The longlist was reviewed post-PEIR consultation and updated in January 2022 for the purpose of the ES, and all relevant changes have been captured in the ES chapter assessments.
- Table 4.2 defines the search area extents that have been applied in developing the longlist of projects, plans and activities. It should be noted that the initial screening ranges were based on what are considered to be the maximum extents of potential impacts from those activities and are therefore considered to be highly precautionary. Impact-specific screening ranges used for individual topics use refined ranges depending on topic-specific criteria at Stage 2.
- All projects, plans and activities within the search areas defined in Table 4.2 have been identified through a desktop study using, among others, the following data sources:
  - PINS website<sup>3</sup>;
  - The Crown Estate website<sup>4</sup>;
  - European Marine Observation and Data Network (EMODnet) data<sup>5</sup>;

<sup>&</sup>lt;sup>3</sup> <u>https://infrastructure.planninginspectorate.gov.uk/</u>

- Wales Marine Planning Portal<sup>6</sup>
- Ireland's Marine Atlas data<sup>7</sup>;
- Oil and Gas UK website<sup>8</sup>;
- Developer and project proponent websites.
- 27 The CEA longlist for projects is presented in Appendix A of this document. All offshore projects, plans and activities considered based on the ZoI criteria listed in Table 4.2 are presented in Figure 1 to Figure 5.

Type of project or activity	Zol criteria	Rationale
Aggregate dredging and disposal	Up to 50 km from AyM array area and offshore ECC.	This range represents a precautionary maximum distance at which effects from aggregate dredging and disposal could occur (e.g. changes to hydrodynamic regime/coastal processes).
Offshore energy	Up to 500 km from AyM array area and offshore ECC.	This range represents a precautionary maximum distance at which effects from offshore energy (e.g. underwater noise from piling) could occur.
Commercial fisheries	Up to 200 km from AyM array area and offshore ECC.	This range represents a precautionary maximum distance at which effects from commercial fisheries activities could occur.
Oil and gas	Up to 200 km from AyM array area and offshore ECC.	This range represents a precautionary maximum distance at which effects from oil and gas activities could occur.
Cables and pipelines	Up to 50 km from AyM array area and offshore ECC.	This range represents a precautionary distance at which effects from cables and pipelines (e.g. increases to Suspended Sediment Concentrations (SSCs) from installation) could occur.
Shipping	Up to 200 km from AyM array area and offshore ECC.	This range represents a precautionary maximum distance at which effects from commercial fisheries activities could occur.
Military, aviation and radar	Up to 200 km from AyM array area and offshore ECC.	This range represents a precautionary maximum distance at which effects from military, aviation and radar effects could occur.

#### Table 4.2: Offshore longlist Zols.

<sup>6</sup> <u>http://lle.gov.wales/apps/marineportal/#lat=50.7112&lon=-4.2050&z=9</u>

Type of project or activity	Zol criteria	Rationale
Coastal developments (including ports)	Up to 200 km from AyM array area and offshore ECC.	This range represents a precautionary maximum distance at which effects from military, aviation and radar effects could occur,

#### Onshore

- 28 Under the first stage of the onshore CEA, a longlist of relevant projects, plans and activities occurring within a study area round the onshore ECC options and onshore substation area of search has been developed from the sources described in the paragraph below. Planning consents granted within the last three years, or applications that have been made and have yet to be determined have been considered.
- 29 Given the scale of the onshore components of AyM, this information was collated from the following publicly available data sources:
  - PINS website<sup>3</sup>;
  - Conwy County Borough Council<sup>9</sup>;
  - Denbighshire County Council<sup>10</sup>;
  - Isle of Anglesey County Council<sup>11</sup>;
  - Flintshire County Council<sup>12</sup>; and
  - Gwynedd Council<sup>13</sup>.
- 30 The CEA longlist for onshore projects is presented in Appendix A of this document. All onshore projects, plans and activities considered based on the ZoI criteria listed in Table 4.3 are presented in Figure 6. The longlist comprises planning consents that have been granted within the last three years (including NSIP projects) or applications that have been made and have yet to be determined within the local authority areas of Conwy, Denbighshire, the Isle of Anglesey, Flintshire and Gwynedd.

Table 4.3: Onshore longlist Zols.

<sup>&</sup>lt;sup>9</sup>https://npe.conwy.gov.uk/Northgate/EnglishPlanningExplorer

<sup>&</sup>lt;sup>10</sup> https://planning.denbighshire.gov.uk/planning/search-applications

 <sup>&</sup>lt;sup>12</sup>https://digital.flintshire.gov.uk/FCC\_Planning/
 <sup>13</sup>https://amg.gwynedd.llyw.cymru/planning/

Type of project or activity	Zol criteria	Rationale
Energy generation infrastructure	Installations larger than domestic scale within the local authority areas described above.	The five local authority areas are considered to represent the realistic worst-case scenario
Building/housing developments	Developments of more than five dwellings/units within the local authority areas described above.	over which cumulative effects are likely to occur. Since the selection of a single onshore
Roads	Major or main road installation or upgrade within the local authority areas described above.	route, the onshore aspects of the scheme are located entirely within Denbighshire, but the
Cable and pipelines	Major cable and pipeline installations and upgrades within the local authority areas described above.	five local authority areas have been retained as the Zol rationale for completeness.
National Grid enabling works	Any works within the local authority areas described above.	
Coastal protection works	Any works within the local authority areas described above.	

#### 4.2.2 Tiered approach

- In assessing the potential cumulative impacts for AyM, it is important to bear in mind that projects, predominately currently 'proposed', may or may not be, ultimately, taken forward for development. Therefore, there is a need to build in some consideration of certainty (or uncertainty) with respect to the potential impacts which might arise from such proposals, in line with the approach set out by PINS in Advice Note 17. For example, projects which are already under construction are more likely to contribute to cumulative effects than those development applications that are not yet submitted.
- 32 For these reasons, all the relevant longlist plans and projects were allocated into 'Tiers', reflecting their current status within the planning and development process. This enabled the cumulative impact assessment to present several scenarios, reflecting the varying levels of certainty of an activity proceeding and therefore the potential for impacts to arise that might act cumulatively with the impacts arising from AyM. When examining the potential cumulative effects of AyM, appropriate weight has been given to each scenario (Tier) in the decision-making process.

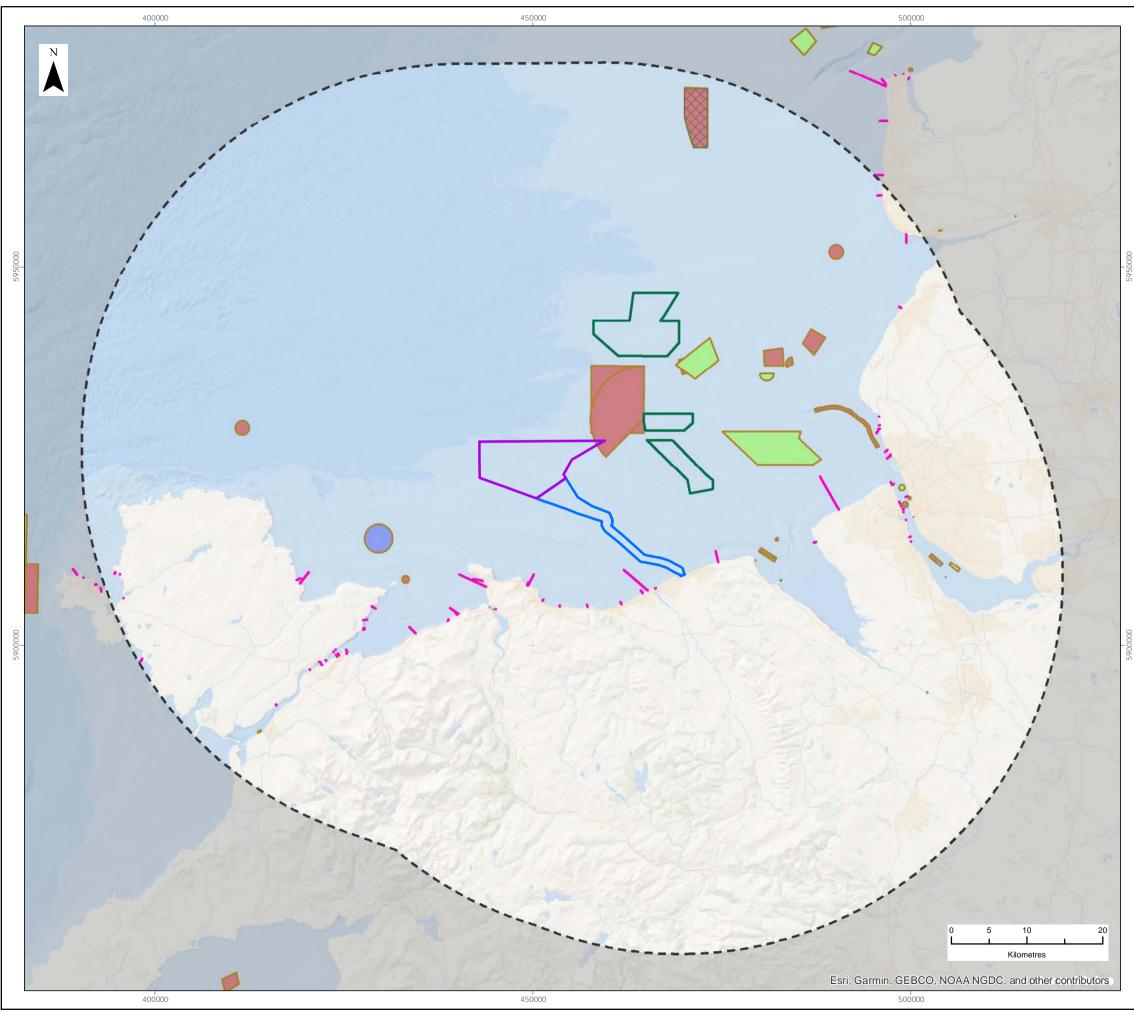


- 33 In accordance with PINS Advice Note 17, the proposed tiering structure is described in Table 4.4. The Tiers are listed in descending order of level of detail likely to be available (and, correspondingly, certainty of effects arising). It is noted in PINS Advice Note 17 that where other projects are expected to be completed before the construction of the proposed NSIP and the effects of those projects are fully determined, effects arising from them should be considered as part of the baseline and have been considered as part of assessment in the construction and operational phase (noting that the assessment should clearly distinguish between projects forming part of the baseline and those in the CEA).
- 34 It is important to note that this tiering methodology is generally applied across the ES. Certain topics may employ their own bespoke tiering methodology where greater precision on certainty is required, or where specific best practice guidance so dictates. Where this is the case, it is clearly described within the topic specific ES chapter.

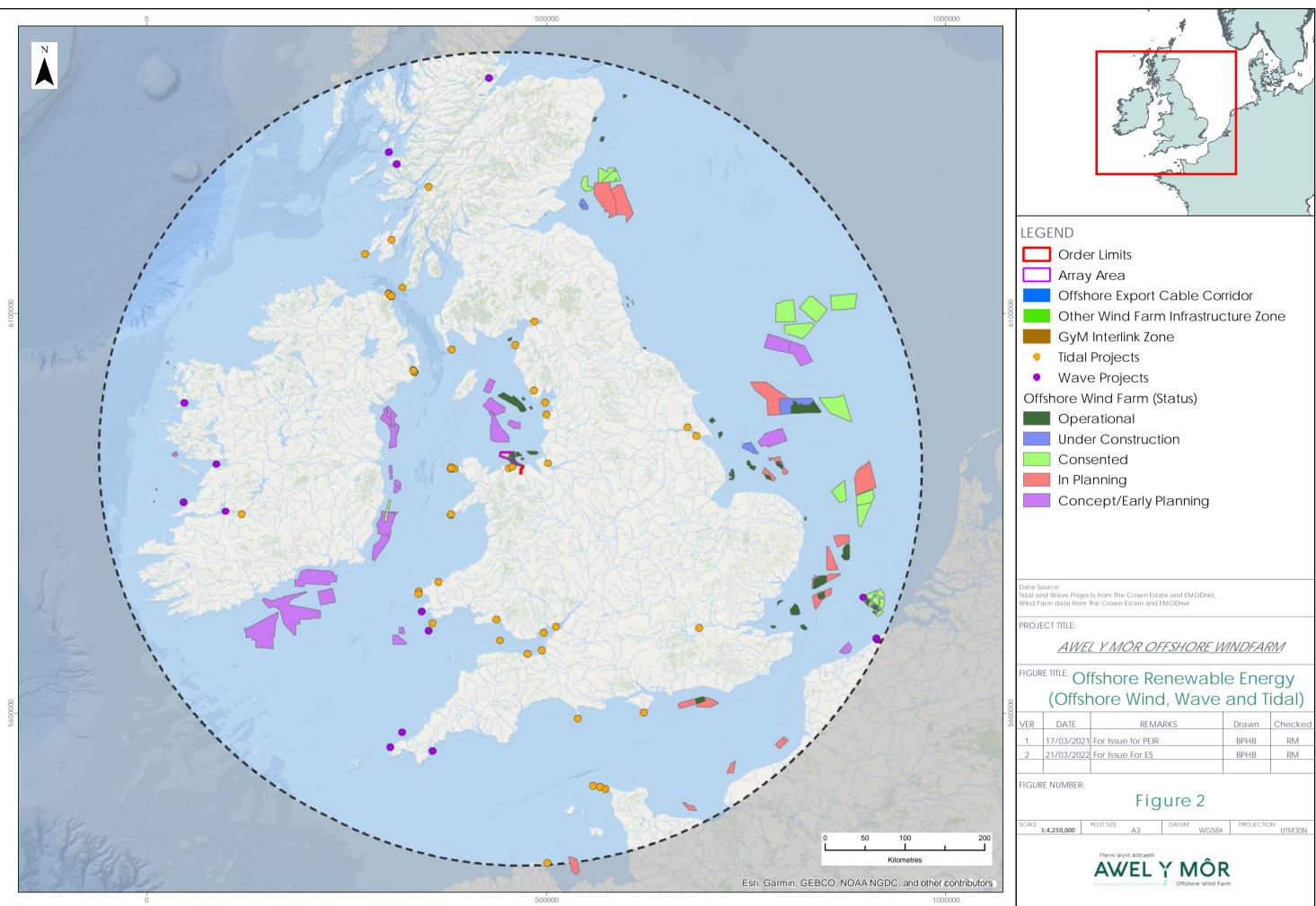
Tiers	Development Stage	
Tier 1	Projects under construction.	
	Permitted applications, whether under the Planning Act 2008 or other regimes, but not yet implemented.	
	Submitted applications, whether under the Planning Act 2008 or other regimes, but not yet determined.	
Tier 2	Projects on the Planning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

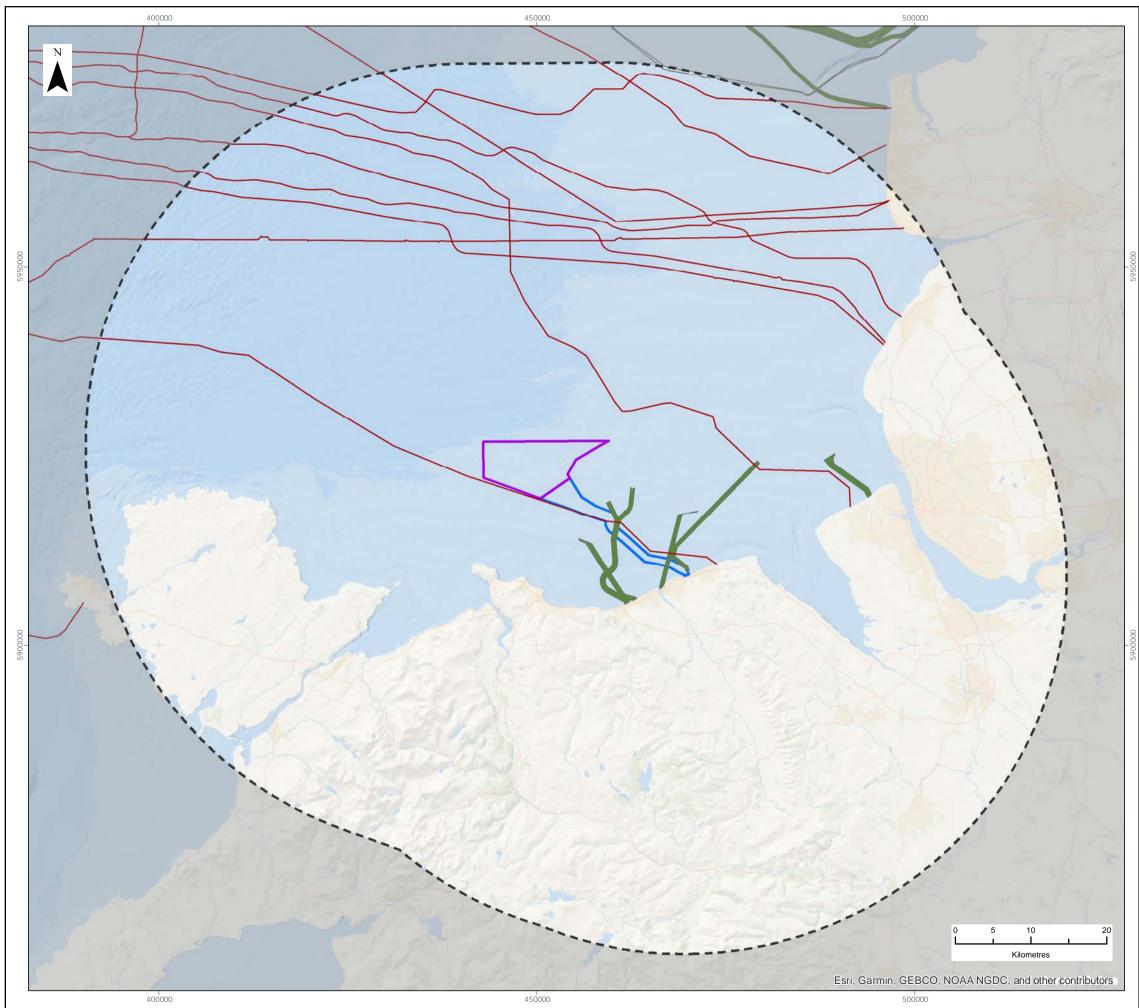
Table 4.4: Description of Tiers of other developments considered for CEA<sup>14</sup>.

<sup>&</sup>lt;sup>14</sup> Tier descriptions adapted from PINS Advice Note 17.

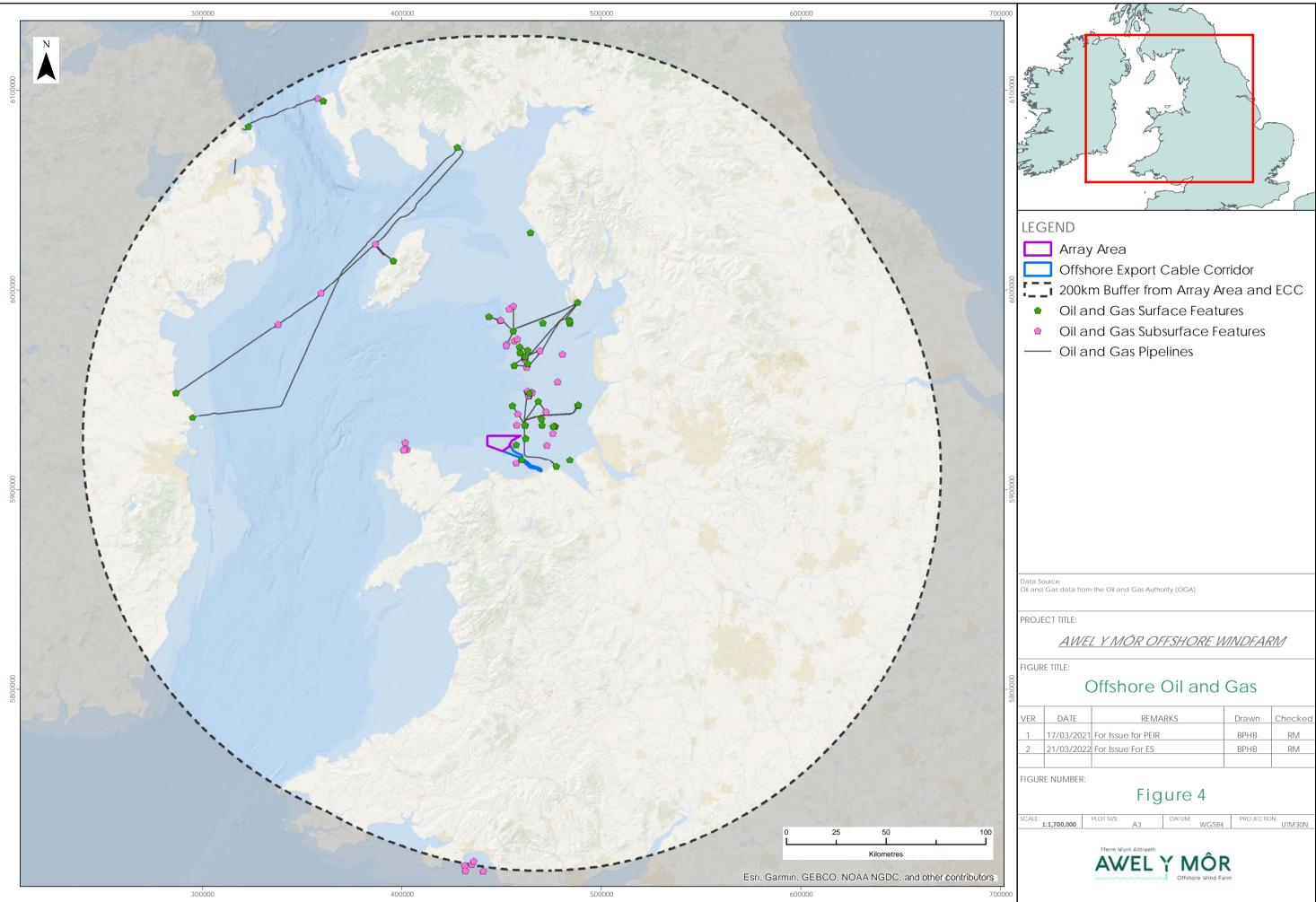


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LEGEND Array Area Offshore Export Cable Con 50km Buffer from Array Area Outfall Pipe Aggregate Area Natural Gas Storage Optic Disposal Site (Status) Open Disposal Site Closed Disposal Site Disused Disposal Site	ea and l			
Data Source: Marine Themes data from Oceanwise, Disposal Sites data from C Aggregates data from The Crown Estate	EFAS,			
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	חרושיוה			
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2 17/01/2022 For Issue For ES	BPHB	RM		
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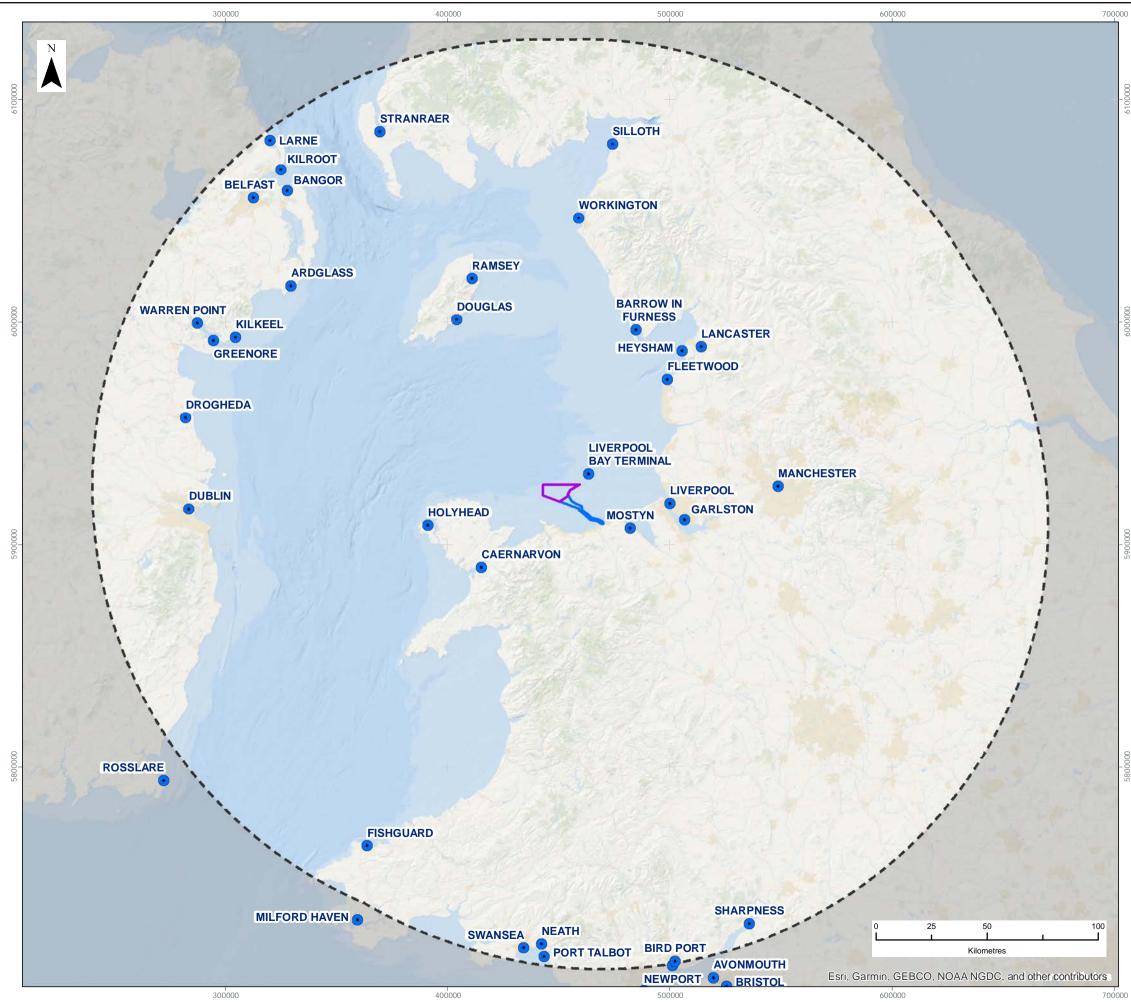




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FIGURE TITLE:	Offshore	e Cable	es	
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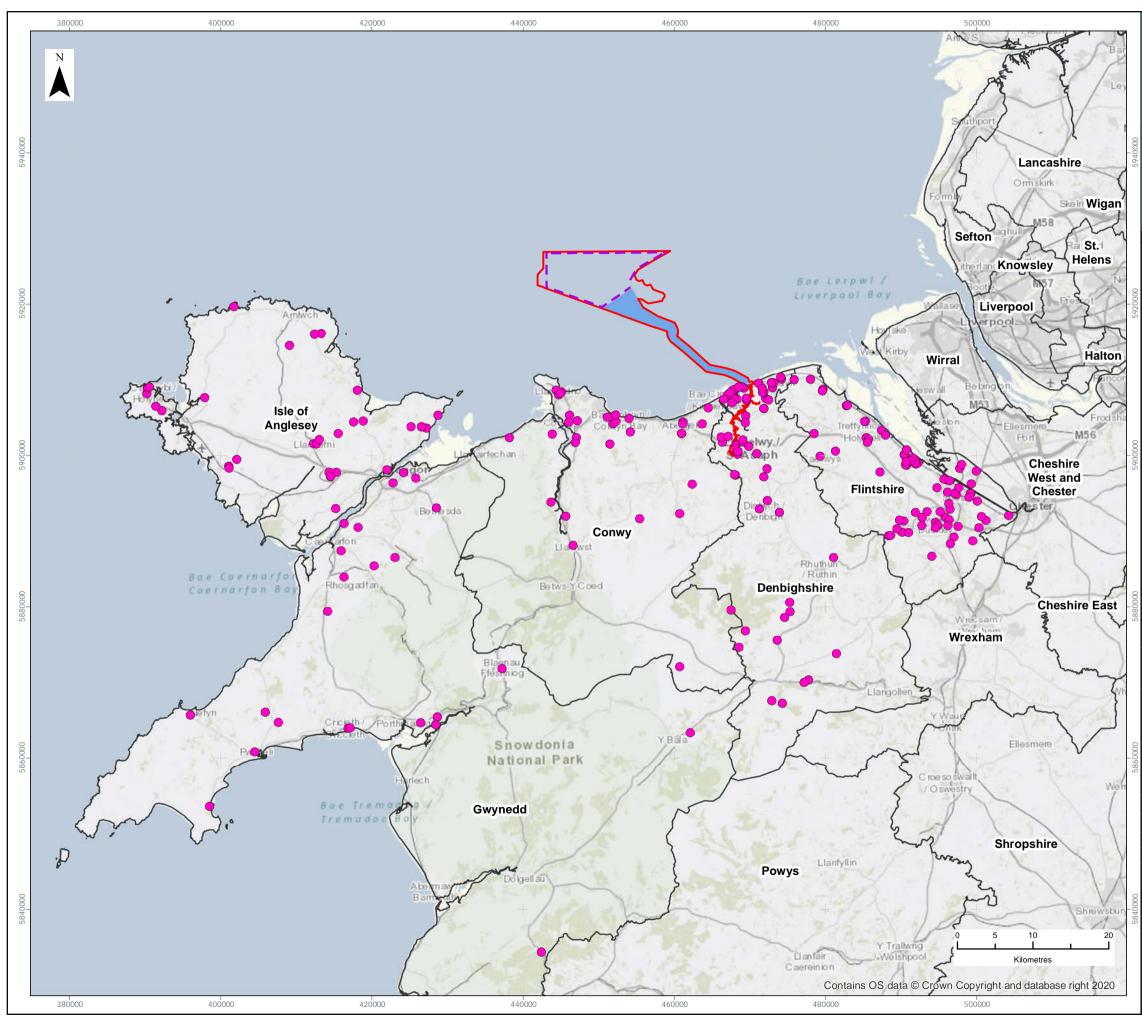


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LEGEND Array Area Offshore Export Cable Corridor 200km Buffer from Array Area and ECC
<ul> <li>Shipping Port</li> </ul>
Data Source:
Port locations from World Ports Index.
PROJECT TITLE:
<u>AWEL Y MÔR OFFSHORE WINDFARM</u>
FIGURE TITLE:
Shipping Ports

VER	DATE	REMA	ARKS	Drawn	Checked		
1	17/03/2021	For Issue for PEIR		BPHB	RM		
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### 4.3 Stage 2

#### Screening of longlist – interactions

35 Once the AyM CEA longlist had been finalised, all projects, plans and activities were then screened based on whether there is a conceptual impact-receptor pathway for effect. The Stage 2 exercise screened the longlist in terms of whether the project, plan or activity is considered to be part of the existing baseline environment or not. Existing projects that have ongoing effects have also been screened in. The next steps included whether there was the potential for temporal overlap (i.e. activities occurring concurrently), spatial overlap (i.e. activities occurring within a certain distance from one another), but also the level of confidence in the data and detail that was publicly available. This Stage 2 screening produced EIA topic-specific shortlists of projects to be considered and refined further within the CEA as part of each ES chapter. Table 4.5 provides definitions of some of the screening criteria that were applied.

Term	Criteria
Potential impact- receptor pathway	There is the potential that a pathway exists whereby an impact could have an effect on a receptor. For example, increases to suspended sediment concentration could have an impact on fish and shellfish receptors, but underwater noise could not have an effect on aviation and radar receptors.
Spatial effect interaction	The impacts on a receptor from AyM and one or more other plans/projects have a geographical overlap. For example, underwater noise contours from piling at AyM could overlap with those of another offshore wind farm project, if it is sufficiently close to AyM. If there is no spatial interaction, there is no potential for a cumulative effect.
Temporal effect interaction	The impacts from AyM and one or more other plans/projects have the potential to occur at the same time. If there is no temporal interaction, there is no potential for a cumulative effect.

#### Table 4.5: Definitions of screening criteria.

36 All plans, projects and activities are screened based on the potential impacts of each in combination with AyM, 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.

- 37 During the screening process, the steps detailed in Table 4.5 were followed in the defined order to allow a clear justification for screening projects in or out. This allowed for the screening out of projects with limited data availability and, as a result, effects that could not be included due to a lack of data, while screening in those that could be considered with the available data.
- 38 Only where there is the potential for both spatial and temporal interaction between effects at AyM and one or more other plans/ projects, has a cumulative impact been taken forward for consideration in the CEA. The screening of the longlist will identify those projects screened in or out for further consideration on the basis of one or more of the preceding criteria into a topic-specific shortlist. The shortlist identifies all the projects, plans, and activities that have the potential to give rise to cumulative effects when considered alongside the worst-case potential impacts arising from AyM but does not identify the differences in impact ranges for different environmental receptors. For example, this exercise treats fish and shellfish as a single receptor group but does not distinguish between different species; this is left for the CEA section of the fish and shellfish ES chapter. Table 4.6 below details these topic-specific screening ranges that have been applied to the longlist.

EIA receptor group	Maximum extent of effect and justification
Physical processes	15 km from the array area and offshore ECC, based on the
	distance of one tidal excursion ellipse.
Marine water and sediment	15 km from the array area and offshore ECC, based on the
quality	distance of one tidal excursion ellipse.
Benthic subtidal and intertidal	15 km from the array area and offshore ECC, based on the
ecology	distance of one tidal excursion ellipse.
Fish and shellfish ecology	50 km from the array area, based on a precautionary impact
	range from underwater noise.
	15 km from the offshore ECC, based on the distance of one tidal
	excursion ellipse.
Marine mammals	Dependent on the reference population extent, i.e. the Celtic and
	Irish Seas management unit for harbour porpoise.
Offshore ornithology	Dependent on the maximum foraging range of the bird species in
	question.
Commercial fisheries	Extent of the relevant fishing grounds.
Shipping and navigation	Based on shipping lanes and available sea room around the
	relevant components of AyM.
Military and civil aviation	Distance at which disturbance from the AyM array area would
	interact with that of another development, assumed at this stage
	to be 45 km.
Seascape, landscape and visual	Based on the maximum extent of the Zone of Theoretical Visibility
impacts	(ZTV).

#### Table 4.6: Topic-specific screening ranges applied to the longlist.

EIA receptor group	Maximum extent of effect and justification
Marine archaeology	Dependent on the archaeological receptor in question but as a worst-case, 15 km from the array area and offshore ECC, based on the distance of one tidal excursion ellipse.
Other marine users and activities	Dependent on the receptor in question, in line with the maximum extents for physical processes, fish and shellfish ecology, aviation and tourism and recreation.
Terrestrial ecology and nature conservation	Precautionary 5 km from the onshore ECC and onshore substation area. Distances will vary depending on type of depending on the type of development/the potential impacts anticipated and the ecological receptor that may be affected.
Archaeology and cultural heritage	Agreed to be scoped out in the PINS Scoping Opinion.
Airborne noise and vibration	Precautionary 2 km from the onshore ECC and onshore substation area. Exact distances are to be confirmed by the ZoI of anticipated impacts.
Traffic and transport	Schemes of regional significance within Conwy and Denbighshire as agreed with the relevant local authorities. Any proposals outside these areas would not be considered unless the proposal was a significant scheme expected to generate a large number of vehicle movements.
Air quality	<ul> <li>Construction Dust Assessment (qualitative assessment of potential dust generated by construction activities)         <ul> <li>Construction of any committed development within 700m from the Site Boundary/Location of works.</li> </ul> </li> <li>Construction Traffic Emissions Assessment (assessment of additional vehicle trips associated with the construction of the development)         <ul> <li>Where there is a spatial and temporal overlap in terms vehicle movements generated from both the proposed development, and other committed developments (no set distance as this is determined at a transport level).</li> </ul> </li></ul>
Hydrology, hydrogeology and flood risk	Based on any surface water catchments and flood risk areas that overlap with the onshore project activities. Exact screening distance to be confirmed.
Geology and ground conditions	Preliminary 500 m buffer from the onshore ECC and 1 km from the onshore substation area. The assessment would also consider a 'sliding scale' in addition to account for potentially significant schemes that are >1km from the site, whilst also discounting small, less obtrusive activities that are <500 m.
Onshore landscape and visual impacts	500 m from the onshore ECC and 5 km from the onshore substation area, considered to be the maximum distance over which the onshore substation would be visible and the distance over which cumulative effects could occur.
Socioeconomics	Schemes of regional significance as agreed with the relevant local authorities.



EIA receptor group	Maximum extent of effect and justification
Tourism and recreation	Dependent on the receptor in question, but in line with the maximum extents for seascape and landscape impacts and socioeconomics.
Public health	2 km from the onshore ECC and onshore substation area. Final distances are to be confirmed but will be informed by the airborne noise and vibration and air quality assessments.

- 39 These topic-specific ranges have been applied to the longlist, to identify relevant shortlist plan, projects and/ or activities to be taken forward to the topic-specific CEA presented in each ES chapter. These are described within Appendix A, and a summary of the shortlist tables are presented in each of the ES chapters.
- 40 The process for screening the longlist into a series of topic-specific shortlists is summarised in Table 4.7.

#### Table 4.7: CEA longlist screening criteria.

Screening criteria	Screening assessment	Conclusion
Step 1 – Conceptual impact-red	ceptor pathway	
Does a conceptual cumulative impact-receptor	No conceptual cumulative impact- receptor pathway for effect.	Screened out.
pathway exist?	Yes, impact(s) from the project, plan or activity could theoretically interact to produce a cumulative effect.	Proceed to step 2.
Step 2 – Baseline environment		
Is the project, plan or activity	Yes.	Screened out.
part of the existing baseline environment?	Yes, but has an ongoing effect that is not considered part of the baseline environment.	Proceed to step 3.
	No – project, plan or activity is currently in planning and therefore cannot be considered as part of the existing environment.	
Step 3 – Data confidence		
What is the level of confidence in the data	Low – a meaningful assessment cannot be undertaken.	Screened out.
available?	Medium or high – enough data is available for the project, plan or activity to enable a meaningful assessment to be undertaken, either quantitatively or qualitatively.	Proceed to step 4.
Step 4 – Spatial effect interacti	on	
Is there physical effect- receptor overlap? (see screening ranges applied in Table 4.6).	No, the project, plan or activity is sufficiently distant from AyM such that there is no geographical overlap of their maximum impact extents.	Screened out.



Screening criteria	Screening assessment	Conclusion
	Yes, impacts on a receptor from AyM together with other plans, projects and activities overlap geographically.	Proceed to step 5.
Step 5 – Temporal effect interd	action	
Is there a temporal overlap of potential effects?	No, the project, plan or activities will not occur at the same time as the relevant phase of AyM (i.e. construction or operation and maintenance) and therefore there is no potential for a cumulative effect.	Screened out.
	Yes, the project, plan or activity is anticipated to occur concurrently with the relevant phase of AyM.	Screened in – potential for cumulative effect exists.

### 4.4 Stages 3 and 4

- 41 The next stage (Stage 3) of the CEA included gathering information on the projects, plans and activities screened in so that a meaningful assessment can be undertaken. Such information included public sources such as ESs and associated planning application documents, project websites and, where such information was not readily accessible, industry consultation with the developers and operators of the schemes, as well as regulators and local authorities in order to gather the most accurate and up to date project information.
- 42 Information gathered on the projects, plans and activities screened in have been collated and input into Stage 4 of the CEA, which has been carried out on a topic-by-topic basis within the CEA section of the relevant ES chapter.
- 43 In terms of the scope of impacts that have been assessed within the CEA, these were the same impacts assessed for the project alone in the main EIA assessments. Any effect that has been concluded to be of negligible or neutral significance (in EIA terms) for the project alone, would make no material contribution to any potential cumulative effect, and was therefore scoped out of the CEA. Effects of greater than negligible significance for the project alone have been considered cumulatively.

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### APPENDIX A – CEA Longlist

### RWE Renewables UK Limited Awel y Môr Offshore Wind Farm

Project Number: 01-41

Date: August 2021

Revision: 1.0 (external)



#### Offshore Cumulative Effects Assessment Matrix - Key



No data
Concept/In Planning/Consenting/Pre-Construction
Construction
Operation and Maintenance
Decommissioning

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



Offshore Cumulative Effects Assessment Matrix -Data Sources



Data	Data Source	Date
Aggregate Production Area	The Crown Estate	Jan-22
Disposal Sites	CEFAS	Mar-21
Outfall	Marine Themes Data Product (OceanWise)	Dec-19
Natural Gas	The Crown Estate	Mar-21
O&G Surface Features	O&G Authority	Aug-20
O&G Subsurface Features	O&G Authority	Aug-20
O&G Pipelines	O&G Authority	Aug-20
Ports	World Ports Index (WPI)	Aug-20
Subsea Cables	KISORCA	Mar-21
OWF Export Cables	The Crown Estate	Jan-22
Offshore Wave Site Agreements	The Crown Estate	Mar-21
Offshore Tidal Site Agreements	The Crown Estate	Mar-21
Offshore Wind Farms (England/Wales)	The Crown Estate	Jan-22
Offshore Wind Farms (Scotland)	Crown Estate Scotland	Jan-22
Offshore Wind Farms (Europe)	EMODnet	Jan-22
Onshore schemes	Local authority planning portals	Jan-22



Project type	Screening Range (km)
Aggregates and Disposal	50
Offshore Energy	500
Commercial Fisheries	200
Cables and Pipelines	50
Oil and Gas	200
Shipping	200
Military, Aviation and Radar	200
Coastal	200
Onshore	N/A (LPA boundaries)

Offshore Cumulative Effects Assessment Matrix -Screening Ranges



### Offshore Cumulative Effects Assessment Matrix - Aggregates and Disposal

AWELY More Allerate	IÔR e Wind Farm					e Cumulativ									1													RV	NE
Project	Data Source(s)	Data Confidence Assessment	Notes	Status of Development	2020	ction Perio 2022 2022	2023	2024 2024	20 25 20 25	2026	2027	502	20 30	2030 - 2050	Distance from the AyM array area (km)	Distance from the AyM Offshore Export Cable Corridor (km)	Distance to the AyM Other Offshore Infrastructure Zone	Physical Processes	Water and Sediment Quality	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammals	Offshore Omithology	Commercial Fisheries	Shipping and Navigation	Military and Civil Aviation	Seascape, Landscape and Visual	Archaeology and Cultura I Heritage	Other Marine Users and Activities
United Kingdom Liverpool Bay (1808)	EMODnet	Medium - Third party project details published in the public domain and confirmed as being 'accurate'	Aggregate Expolaration and Option Area	Active											5.5	11.9	22.2	ь	Ъ	ь	ь	d	d	d	d	d	d	Ь	d
Hilbre Swash (392)	EMODnet	Medium - Third party project details published in the public domain and confirmed as being 'accurate'	Aggregate Production Area	Active											5.6	9.3	24.3	b	b	Ь	b	d	d	d	d	d	d	ь	d
Hilbre Swash (393)	EMODnet	Medium - Third party project details published in the public domain and confirmed as being 'accurate'		Active											5.6	9.3	22.2	ь	Ь	ь	ь	d	d	e	d	d	ci	ь	d
Liverpool Bay (457)	EMODnet	details published in the public domain and confirmed as being 'accurate'		Active											11.4	17.6	22.0	Ь	r	ь	r	r	r	r	r	r	d	Ь	r
Liverpool Bay (Sludge)	EMODnet	Medium - Third party project details published in the public domain and confirmed as being 'accurate'		Closed											0.0	5.9	15.2	g	g	g	g	g	g	a	g	a	d	g	a
Liverpool Bay (Sludge) B	EMODnet	Medium - Third party project details published in the public domain and confirmed as being 'accurate'		Closed											1.0	6.8	15.0	g	g	g	g	g	g	g	g	g	d	9	9
Liverpool Bay (Industrial)	EMODnet	Medium - Third party project details published in the public domain and confirmed as being 'accurate'		Closed											2.0	8.7	17.2	g	g	g	g	g	g	9	g	9	d	9	9
Site I (NW Light Float)	EMODnet	Medium - Third party project details published in the public domain and confirmed as being 'accurate'		Closed											2.6	9.6	17.9	g	g	g	g	g	g	g	g	g	d	g	g
Conwy Bay		Medium - Third party project details published in the public domain and confirmed as being 'accurate'		Disused											13.7	19.7	13.1	g	9	g	g	g	g	9	g	9	d	g	g
BHP Pipeline Route (IS150)	EMODnet	Medium - Third party project details published in the public domain and confirmed as being 'accurate' Medium - Third party project		Closed											13.5	20.6	28.9	g	g	g	g	g	g	9	g	9	d	g	g
Site Y Puffin Island	EMODnet	details published in the public domain and confirmed as being 'accurate'		Open											13.7	20.8	28.6	Þ	r	r	r	r	r	r	r	r	d	b	r
Burbo Bank Extension OWF		Medium - Third party project details published in the public domain and confirmed as being 'accurate' Medium - Third party project		Closed											16.1	19.9	15.9	g	g	g	g	g	g	g	g	g	d	g	9
Conway Benefical Use	EMODnet	Medium - Third party project details published in the public domain and confirmed as being 'accurate' Medium - Third party project		Closed											15.6	16.9	32.3	g	g	g	g	g	g	g	g	g	d	g	a
	EMODifet	details published in the public domain and confirmed as being 'accurate'													15.7	10.0		ſ	r	r	ſ	ſ	ſ	r	r	r	d	ь	r
Deganwy Beneficial Use Point Lynas	EMODnet	Medium - Third party project details published in the public domain and confirmed as being 'accurate' Medium - Third party project		Open											30.5	39.0	29.8	r	r	r	ſ	ſ	r	1	r	r	d	ь	r
Site Z	EMODinet	details published in the public domain and confirmed as being 'accurate'		Open											22.3	26.9	38.6	g	g	g	g	g	g	g	g	9	d	g	9
She Z BHP Pipeline Route (IS148)		details published in the public domain and confirmed as being 'accurate'		Closed											22.3	28.3	38.6	r	r	r	ſ	ſ	ſ	ı	r	r	d	Ь	r
	EMODnet	Medium - Third party project details published in the public domain and confirmed as being 'accurate'		Open												10.2		g	g	9	g	g	g	g	g	9	d	g	9
Mostyn Deep (Maintenance)	EMODnet	details published in the public domain and confirmed as being 'accurate'													25.0	10.2	38.1	ſ	r	r	ſ	ſ	ſ	r	r	'	d	Ь	r
Mostyn Deep		Medium - Third party project details published in the public domain and confirmed as being 'accurate'		Disused												10.2		g	g	g	g	g	g	g	g	g	đ	g	9
Point Of Ayr Foreshore	EMODnet	Medium - Third party project details published in the public domain and confirmed as being 'accurate'	Sea Disposal Site	Closed											25.4	9.6	38.1	g	g	g	9	9	g	9	g	9	d	g	9

				1	Constru	ction Period	(red outli	ine deno	tes Awel	l y Môr	offshore c	onstruc	tion perior	±)															
Project	Data Source(s)	Data Confidence Assessment	Notes	Status of Development		2021	2023	2024	2025	2026	2027	2028	2029	2030 - 2050	Distance from the AyM array area (km)	Distance from the AyM Offshore Export Cable Corridor (km)	Distance to the AyM Other Offshore Infrastructure Zone	Physical Processes	Water and Sediment Quality	Benthic and nertidal Ecology	Fish and Shellfish Ecology	Marine Mammals	Offshore Ornithology	Commercial Fisheries	Shipping and Navigation	Military and Civil Aviation	Seascape, Landscape and Visual	Archaeology and Cultural Heritage	Other Marine Users and Activities
Site Z (Original Area)	EMODnet	Medium - Third party project details published in the public domain and confirmed as being 'accurate'	Sea Disposal Site	Closed											26.0	29.9	42.3	g	g	9	g	g	9	g	g	g	a	9	g
Dee Estuary	EMODnet	Medium - Third party project details published in the public domain and confirmed as being 'accurate'	Sea Disposal Site	Closed											26.0	12.9	40.0	g	g	g	g	g	g	g	g	g	d	g	a
Formby & Taylors Point	EMODnet	Medium - Third party project details published in the public domain and confirmed as being 'accurate'	Sea Disposal Site	Closed											28.1	27.1	44.8	g	g	g	g	g	g	g	g	g	d	g	a
BHP Pipeline Route (IS147)	EMODnet	Medium - Third party project details published in the public domain and confirmed as being 'accurate'	Sea Disposal Site	Closed											29.2	33.1	45.2	g	g	g	g	g	g	g	g	g	d	g	a
Mostyn Breakwater	EMODnet	Medium - Third party project details published in the public domain and confirmed as being 'accurate'	Sea Disposal Site	Open											29.6	12.7	42.0	ı	r	r	r	r	i	r	r	t	d	b	r
Preston	EMODnet	Medium - Third party project details published in the public domain and confirmed as being 'accurate'	Sea Disposal Site	Closed											38.6	44.8	53.4	9	g	g	g	g	g	g	g	g	d	g	a
Wallasey	EMODnet	Medium - Third party project details published in the public domain and confirmed as being 'accurate'	Sea Disposal Site	Closed											38.7	30.2	54.8	9	g	g	g	g	g	g	g	g	d	g	9
Mersey (Mid-River Site)	EMODnet	Medium - Third party project details published in the public domain and confirmed as being 'accurate'	Sea Disposal Site	Open											39.4	30.5	55.5	ı	r	r	r	r	r	r	r	r	d	ь	r
Mersey (Mid-River 2)	EMODnet	Medium - Third party project details published in the public domain and confirmed as being 'accurate'	Sea Disposal Site	Closed											40.2	30.2	56.0	g	g	g	g	g	9	g	g	9	d	9	9
Bramley Moore Dock	EMODnet	Medium - Third party project details published in the public domain and confirmed as being 'accurate'	Sea Disposal Site	Closed											40.8	31.3	56.8	9	g	g	g	g	g	g	g	g	d	g	9
Nelson Dock	EMODnet	Medium - Third party project details published in the public domain and confirmed as being 'accurate'	Sea Disposal Site	Closed											40.9	31.2	56.8	9	g	g	g	g	g	g	g	g	d	g	9
Manai Strait	EMODnet	Medium - Third party project details published in the public domain and confirmed as being 'accurate'	Sea Disposal Site	Closed											44.1	47.6	43.7	9	g	g	g	g	g	g	g	g	d	g	9
Canning Half Tide	EMODnet	Medium - Third party project details published in the public domain and confirmed as being 'accurate'	Sea Disposal Site	Open											42.0	31.2	57.6	ı	r	ŗ	r	r	i	r	r	i	d	b	r
Mersey of Bromborough	EMODnet	Medium - Third party project details published in the public domain and confirmed as being 'accurate'	Sea Disposal Site	Closed											45.5	32.4	60.3	9	g	g	g	g	g	g	g	g	d	g	g
Mersey of Bromborough 2	EMODnet	Medium - Third party project details published in the public domain and confirmed as being 'accurate'	Sea Disposal Site	Disused											46.5	33.1	61.2	g	g	g	g	g	g	g	g	g	d	g	g
Mersey (Garston Site)	EMODnet	Medium - Third party project details published in the public domain and confirmed as being 'accurate'	Sea Disposal Site	Open											48.4	35.0	63.1	1	r	r	r	r	r	r	r	r	d	b	۲
Middle Deep, Mersey	EMODnet	Medium - Third party project details published in the public domain and confirmed as being 'accurate'	Sea Disposal Site	Closed											48.5	34.5	63.0	g	g	g	g	g	g	g	g	g	d	g	a

### Offshore Cumulative Effects Assessment Matrix - Cables and Pipelines

### RWE nstruction Period (red outline de Distance from the Distance from the Awel y Mor OWF Awel y Mor OWF Araya y Mor Offshore Stropt Cable Route (km) Data Confidence Assessment 2021 2022 2023 2026 2025 2026 Data Source(s 2027 2028 Status of Development 2029 20.30 2050 Other Marine Users and Activities ape an Visua shipping ar Navigatic and C Aviati Water J ant Qui and Shell Ecolo drfsh Andthanc Benthie Idal Eco 030 United Kingdom Gwynt y Môr OFTO High - Third party project details published in the publis domain and confirmed as being 'accurate' by the Crown Estate he Crown Estate ffshore Wind Farm Export Cable High - Third party project details published in the publi domain and confirmed as being 'accurate' by the Crown Estate High - Third party project details published in the public domain and confirmed as being 'accurate' by the Crown Estate 26.1 High - Third party project details published in the public domain and confirmed as Burbo Bank Extension OFTO The Crown Estate Offshore Wind Farm Export Cable Active 15.8 26.7 eing 'accurate' by the crown Estate High - Third party project details published in the public domain and confirmed as being 'accurate' by the Crown Estate Burbo Bank shore Wind Farm Export Cable High - Third party project details published in the publis domain and confirmed as being 'accurate' by the Crown Estate Walney Extension Transmission Asset ffshore Wind Farm Export Cable Active 56.4 High - Third party project details published in the public domain and confirmed as Offshore Wind Farm Export Cable Active 60.6 65.1 being 'accurate' by the Crown Estate High - Third party project details published in the public West of Duddon Sands OFTO Ifshore Wind Farm Export Cable Active domain and confirmed as being 'accurate' by the Crown Estate High - Third party project details published in the public domain and confirmed as being 'accurate' by the Crown Estate Ifshore Wind Farm Export Cable Active High - Third party project details published in the publi domain and confirmed as being 'accurate' by the Crown Estate ffshore Wind Farm Export Cable Active High - Third party project details published in the publis domain and confirmed as being 'accurate' by the Crown Estate Valney 1 OFTO Medium - Third party project details published in the public domain but not confirmed as being 'accurate' Geo-Eirgrid (East West nterconnector) eleGeorgraphy: (ISORCA Medium - Third party project details published in the public domain but not confirmed as Western HVDC Link TeleGeorgraphy: KISORCA eing 'accurate' Medium - Third party project Telecommunication Cable details published in the public Esat BT domain but not confirmed as being 'accurate' TeleGeorgraphy: KISORCA; EMODnet Medium - Third party project details published in the public domain but not confirmed as being 'accurate' GTT Atlantic (Hibernia 'C') TeleGeorgraphy: KISORCA: EMODnet Medium - Third party project details published in the public domain but not confirmed as being 'accurate' TeleGeorgraphy; KISORCA; EMODnet tive eleGeorgraphy: Dígitised Medium - Third party project Telecommunication Cable details published in the public. Aqua Comms domain but not confirmed as being 'accurate' Havhingsten / CeltixConnect-2 (CC-2) nder Construction Medium - Third party project details published in the public domain but not confirmed as TeleGeorgraphy: KISORCA: EMODnet eing 'accurate' Medium - Third party project details published in the public domain but not confirmed as being 'accurate' GTT Atlantic (Hibernia 'A') Telecommunication Cable TeleGeorgraphy: KISORCA; EMODnet

Project	Data Source(s)	Data Confidence Assessment	Notes	Status of Development	Constru 0202	ction Period 2021 202	d (red out) t 203 207	ine denote	s Awel y S S S S S	y Mör offsho 2052 207	ore cons 87 07	truction pe 6202	2030 (pols 2030 - 2050	Distance from the Awel y Mor OWF array area (km)	Distance from the Awel y Mor Offshore Export Cable Route (km)	Distance to the AyM Other Offshore Infrastructure Zone	Physical Processes	Water and Sediment Quality	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammals	Offshore Ornithology	Commercial Fisheries	Shipping and Navigation	Military and Civil Aviation	Seascape, Landscape and Visual	Archaeology and Cultural Heritage	Other Marine Users and Activities
E-LLAN	TeleGeorgraphy; KISORCA; EMODnet	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Telecommunication Cable Manx Electricity Authority	Active										42.0	48.8	51.0	ſ	r	r	r	r	r	ſ	r	r	d	ь	r
Rockabill	TeleGeorgraphy: EMODNet: Digitised	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Telecommunication Cable euNetworks	Active										43.2	48.2	45.7	r	r	r	r	r	r	r	r	r	d	ь	r -
CeltixConnect-1 (CC-1)(BT- TE1)	<ul> <li>TeleGeorgraphy: KISORCA</li> </ul>	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Telecommunication Cable Aqua Comms	Active										55.4	61.9	54.6	r	r	r	r	r	r	r	r	r	d	ь	,
DD-POA Gas Export	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Pipeline : Eni (Gas)	Active										2.0	1.4	20.3	r	b	ь	ь	r	r	r	r	r	d	ь	r
POA-DD Methanol	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Pipeline Eni (Methanol)	Active										2.0	1.4	20.4	r	ь	ь	ь	r	r	r	r	r	d	ь	,
POA-DD Concensate	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Pipeline Eni (Condensate)	Active										2.0	1.4	20.4	r	ь	ь	ь	r	r	r	r	r	d	ь	,
Conwy to Douglas Oil Expo	ort Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Pipeline Tailwind (Oil)	Active										5.6	12.5	20.9	r	ſ	ь	r	r	r	r	r	r	d	ь	,
Douglas to Conwy Condensate Injection	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Pipeline Tailwind (Condensate)	Active										5.6	12.5	20.9	r	ŗ	ь	r	r	r	r	r	r	d	ь	r
Douglas to Conwy Water Injection	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Pipeline Tailwind (Water)	Abandoned										5.6	12.5	20.9	g	9	g	g	g	g	g	g	g	d	g	9
Douglas to Conwy Umbilic	al Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Pipeline Tailwind (Fibre)	Active										5.6	12.5	20.9	r	r	ь	r	r	r	r	r	r	d	ь	,
Douglas to CACM	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Pipeline Eni (Oil)	Active										5.6	12.5	21.9	r	ſ	ь	r	r	r	r	r	r	d	ь	r
Hamilton to Douglas Gas Line	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Pipeline Eni (Gas)	Active										5.6	12.5	22.0	r	r	ь	r	r	r	r	r	r	d	ь	r
Hamilton North to Douglas Gas Line	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Pipeline Eni (Gas)	Active										5.7	12.5	21.9	r	ſ	ь	r	r	r	r	r	r	d	ь	,
Douglas to Hamilton North	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Pipeline : Eni (Chemical)	Active										5.7	12.5	21.9	ŗ	r	ь	,	ı	r	ſ	r	r	d	ь	,
Douglas to Lennox Gas Line (PL1036A)	e Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Pipeline Eni (Gas)	Active										5.7	12.6	22.1	r	ſ	ь	r	r	r	r	r	r	d	ь	,
Lennox to Douglas Gas Line	e Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Pipeline Eni (Gas)	Active										5.7	12.5	22.0	r	ſ	ь	r	r	r	r	r	r	d	ь	,
Lennox to Douglas Oil Line	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Pipeline Eni (Oil)	Not in Use										5.7	12.6	22.0	g	9	g	g	g	g	g	g	g	d	g	9
Douglas to Lennox Chemical Line (PL1037)	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Pipeline Eni (Chemical)	Active										5.7	12.6	22.0	r	r	ь	'	r	r	r	r	r	d	ь	,
Douglas to Hamilton	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Pipeline Eni (Chemical)	Active										5.8	12.6	22.1	r	r	ь	۰ ۲	r	r	r	1	r	d	ь	,
Douglas to Lennox Gas Line (PL1036)	e Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Pipeline Eni (Gas)	Not in Use										5.8	12.6	22.0	g	9	9	9	9	9	g	9	9	d	g	9
Douglas to Lennox Chemical Line (PL1038)	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Pipeline Eni (Chemical)	Active										5.8	12.6	22.0	ſ	ſ	ь	r	r	r	r	r	r	d	ь	,
Hamilton East Umbilical	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Pipeline Eni (Condensate)	Active										17.4	24.5	33.0	r	r	r	r	r	r	1	r	r	d	ь	r

					Constr	uction Pe	eriod (red	outline den	otes Aw	el y Môr ol	fshore co	onstructio	on perio	d)								- A							
Project	Data Source(s)	Data Confidence Assessment	Notes	Status of Development	2020	2021	2022	2024	2025	2026	2027	2024	2030	2030 - 2050	Distance from the Awel y Môr OWF array area (km)	Distance from the Awel y Môr Offshore Export Cable Route (km)	Distance to the AyM Other Offshore Infrastructure Zone	Physica Processes	Water and Sediment Quality	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammals	Offshore Ornithology	Commerci al Fisheries	Shipping and Navigation	Military and Civil Aviation	Seascape, Landscape and Visual	Archaeology and Cultural Heritage	Other Marine Users and Activities
Hamilton East Pipeline	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Pipeline Eni (Gas)	Active											17.4	24.6	33.0	r	r	r	1	ſ	r	,	r	r	d	b	r
OSI Anchor Cable 4	Oil and Gas Authority	details published in the public domain but not confirmed as being 'accurate'	Pipeline Eni	Active											20.5	26.7	30.9	t	,	r	r	r	r	,	r	r	d	Ь	,
OSI Anchor Cable 5	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Pipeline Eni	Active											20.5	26.7	30.8	r	r	r	r	r	r	r	r	r	d	ь	r
OSI Anchor Cable 6	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		Active											20.5	26.7	30.8	r	r	r	r	r	r	r	r	r	d	ь	r
OSI Anchor Cable 3	Oil and Gas Authority	details published in the public domain but not confirmed as being 'accurate'		Active											21.8	28.0	31.9	r	r	r	r	r	r	r	r	r	d	ь	r
OSI Anchor Cable 1	Oil and Gas Authority	details published in the public domain but not confirmed as being 'accurate'		Active											21.8	28.0	31.9	r	r	r	r	r	r	r	r	r	d	ь	r
OSI Anchor Cable 2	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		Active											21.8	28.0	31.9	r	,	r	r	r	r	ı	r	r	d	b	r
OSI Anchor Cable 8	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		Active											21.8	28.0	31.9	ı	,	r	r	r	r	,	r	r	d	Ь	r
OSI Anchor Cable 7	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		Active											21.8	28.0	31.8	r	r	r	r	r	r	r	r	r	d	ь	r
OSI Anchor Cable 9	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		Active											21.8	28.0	31.9	r	r	r	r	ſ	ı	r	r	r	d	Ь	r
Rivers Onshore Terminal to Calder		Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Chrysaor (Chemical)	Active											35.2	40.3	38.9	r	ı	r	r	r	r	ı	r	r	d	ь	r
Calder to Rivers Onshore Terminal	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		Active											35.2	40.3	38.9	r	ı	r	r	r	r	ı	r	r	d	ь	ı
Calder to CPP1	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		Active											35.3	40.2	38.8	r	r	r	r	r	r	ı	r	r	d	ь	r
Morecambe CPP1 to DP3 Eelectric	Oil and Gas Authority	details published in the public domain but not confirmed as being 'accurate'		Not in Use											36.3	42.0	42.8	g	g	g	9	g	g	g	9	9	d	9	9
Morecambe DP3 to CPP1 Electric	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		Not in Use											36.3	42.0	42.8	g	9	9	g	g	9	9	9	g	d	9	9
Morecambe CPP1 to DP3	Oil and Gas Authority	details published in the public domain but not confirmed as being 'accurate'		Decommission											36.3	42.0	42.8	9	9	9	9	g	9	9	9	9	d	g	9
Morecambe DP3 to CPP1		Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		Decommission											36.4	42.0	42.8	9	9	9	g	g	g	g	g	9	d	g	9
Morecambe CPP1 to DP3 Electric - 2 Morecambe DP6 to CPP1	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		Decommission											36.4	42.1	42.9	g	g	a	g	g	g	g	g	g	d	g	g
		Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		Active											39.6	45.0	45.0	r	r	r	r	r	r	r	r	r	d	Ь	r
Electric	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate' Medium - Third party project		Decommission											39.6	45.1	45.0	9	9	9	9	g	9	9	9	9	d	g	9
Morecambe CPP1 to DP6	Oil and Gas Authority	details published in the public domain but not confirmed as being 'accurate'	Spirit Energy	Active											39.6	45.1	45.0	r	r	r	r	ſ	r	r	r	r	d	Ь	r
Morecambe CPP1 to DP4	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Pipeline Spirit Energy	Decommission											39.6	45.1	45.0	9	9	g	g	g	g	9	g	g	d	g	9

Project	Data Source(s)	Data Confidence Assessment	Notes	Status of Development	2020	2021	2022	outline de	5025	2026	2027	2028	2029	2030 - 2050	Distance from the Awel y Mor OWF array area (km)	Distance from the Awel y Mor Offshore Export Cable Route (km)	Distance to the AyM Other Offshore Infrastructure Zone	Physical Processes	Water and Sediment Quality	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammals	Offshore Ornithology	Commercial Fisheries	Shipping and Navigation	Military and Civil Aviation	Seascape, Landscape and Visual	Archaeology and Cultural Heritage	Other Marine Users and Activities
Morcambe CPP1 to DP8	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Pipeline Spirit Energy	Active											39.6	45.1	45.0	ſ	r	r	i	r	r	ı	r	r	d	ь	r -
Morecambe DP8 to CPP1	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Pipeline Spirit Energy (Gas)	Active											39.6	45.1	45.0	ſ	r	r	t	r	r	r	r	r	a	Ь	r -
Morcambe CPP1 to DP6 Electric	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Spirit Energy (Condensate)	Active											39.6	45.1	45.1	t	r	r	r	r	r	r	r	r	d	ь	r.
SMT Trunkline	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Spirit Energy (Gas)	Active											39.6	45.1	45.1	ſ	r	r	r	r	r	r	r	r	d	ь	r -
Morecambe DP1 to Bains	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Pipeline Chrysaor (Chemical)	Active											39.6	45.1	45.1	ſ	r	r	r	r	r	r	r	r	d	ь	r -
Morecambe DP4 to CPP1	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Spirit Energy (Gas)	Decommission											39.6	45.1	45.1	9	g	9	9	9	g	9	9	g	d	g	g
Bains to Morecambe DP1	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Pipeline Chrysaor (Gas)	Active											39.6	45.1	45.1	r	r	r	r	r	r	r	r	r	d	ь	r
Morecambe DP6 to DP8	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Pipeline Spirit Energy	Active											41.6	46.8	45.9	r	r	r	r	r	r	r	r	r	d	ь	r
Morecambe DP8 to DP4	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Pipeline Spirit Energy	Decommission											42.9	48.5	48.4	g	g	g	g	g	g	g	g	9	d	9	9
Dalton Plem to Dalton Wellhead R2	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Pipeline Chrysaor (Chemical)	Active											45.1	50.1	46.8	r	r	r	r	r	r	r	r	r	d	ь	r
Wellhead R2 to Dalton Piem	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Chrysaor (Gas)	Active											45.2	50.1	46.8	r	r	r	r	r	r	r	r	r	d	ь	r
Dalton Wellhead R1 to Dalton Piem	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Pipeline Chrysaor (Gas)	Active											46.0	51.0	47.7	ı	r	r	r	r	r	r	r	r	d	ь	r -
Dalton Plem to Dalton Wellhead R1	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		Active											46.0	51.0	47.7	r	ſ	r	r	r	r	ı	1	r	d	b	1
Morecambe DPPA to Dalton Plem	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Chrysaor (Chemical)	Active											46.0	51.0	47.7	t	ſ	r	r	r	r	r	r	r	d	ь	r
Dalton Plem to DPPA	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Pipeline Chrysaor (Gas)	Active											46.1	51.0	47.7	ſ	r	r	r	r	r	r	r	r	6	ь	r

### Offshore Cumulative Effects Assessment Matrix - Commercial Fisheries

# RWE

Project (	Data Source(s)	Data Confidence Assessment	Notes	Status of Development	2020 2021	2022	2023	2025	2026	028	229	2030 2050	Distance from the	Distance from the	Distance to the	ses	lify	ygo	lfish ogy	nals	ogy	rcial aries	and	tion	ape, and isual	age	les les
United Kingdom										3	Σ.	2030 - 20	Distance from the Awel y Môr OWF array area (km)	Awel y Môr Offshore Export Cable Route (km)	AyM Other Offshore Infrastructure Zone	Physi	Water & Sediment Qua	Benthic ( Intertidal Ecol	Fish and Shel Ecol	Marine Mamr	Ornithol	Comme Fish	Shipping Navige	Military and Avia	Seasc Landscape V	Archaeology Cultural Herit	Other Mar Users a Activit
	Industry information: Cefas	High - Third party details published in the public domain and confirmed as being 'accurate' by Cefas.		Ongoing									N/A	N/A	N/A	t	r	r	r	ſ	r	ı	r	r	d	ь	r
Aquaculture - Mussels (Class E 5)		High - Third party details published in the public domain and confirmed as being 'accurate' by DEFRA.	Conwy - Morfa, Gamlwys and Green Island	Ongoing									13.9	14.1	15.1	r	r	f	r	ſ	r	ſ	ı	ſ	d	ь	r
Aquaculture - Mussels (Class E 5)		High - Third party details published in the public domain and confirmed as being 'accurate' by DEFRA.	Conwy - Scabs and Cae Conwy	Ongoing									14.5	14.8	15.3	r	ſ	r	r	ſ	r	1	ſ	1	d	ь	r
Aquaculture - Mussels (Class I 2)		High - Third party details published in the public domain and confirmed as being 'accurate' by DEFRA.	Conwy - Conwy Bridge	Ongoing									15.9	15.9	17.9	t	r	ſ	r	r	r	ſ	r	f	d	ь	r
(Class 5)	DEFRA	High - Third party details published in the public domain and confirmed as being 'accurate' by DEFRA.	Angisey Red Wharf Bay - All Beds	Ongoing									21.4	23.4	21.3	ſ	ſ	f	ſ	f	r	ſ	ſ	ſ	d	Ь	r
(Class 2)	DEFRA	High - Third party details published in the public domain and confirmed as being 'accurate' by DEFRA.	Menai Strait East - Lavan West	Ongoing									22.9	28.0	22.4	£	r	f	ſ	ſ	r	f	r	f	d	ь	r
(Class 5)	DEFRA	High - Third party details published in the public domain and confirmed as being 'accurate' by DEFRA.	Menai Strait East - Lavan West	Ongoing									23.7	26.4	23.5	r	ı	f	r	ſ	r	ſ	ı	r	d	ь	r
Aquaculture - Mussels (Class E 5)	DEFRA	High - Third party details published in the public domain and confirmed as being 'accurate' by DEFRA.	Menai Strait East - Bangor, Gallows Horses., Gann										24.8	28.3	24.4	r	1	ſ	ſ	1	r	1	ı	1	d	ь	r
(Class 5)		<ul> <li>being 'accurate' by DEFRA.</li> <li>High - Third party details published in the public domain and confirmed as being 'accurate' by DEFRA.</li> </ul>	Dee - Salisbury	Ongoing									26.5	11.5	39.7	ſ	ı	1	ı	ſ	ſ	1	ı	ı	d	Ь	1
Aquaculture - Mussels (Class E 5)		High - Third party details published in the public domain and confirmed as being 'accurate' by DEFRA.	Dee - Salisbury	Ongoing									26.5	11.5	39.7	r	r	f	ſ	f	f	ı	ı	r	d	ь	r
(Class 5)	DEFRA	High - Third party details published in the public domain and confirmed as being 'accurate' by DEFRA.	Dee - West Kirby	Ongoing									28.0	15.3	42.5	ſ	ſ	f	ſ	f	r	ſ	ſ	ſ	d	Ь	r
Aquaculture - Mussels (Class E 5)		High - Third party details published in the public domain and confirmed as being 'accurate' by DEFRA.	Dee - West Kirby	Ongoing									28.0	15.3	42.5	ſ	1	ſ	ſ	ſ	r	1	ſ	1	d	ь	r
(Class 5)	DEFRA	High - Third party details published in the public domain and confirmed as being 'accurate' by DEFRA.	Dee - Caldy Blacks	Ongoing									31.7	16.7	45.3	r	r	r	r	r	f	f	r	r	d	ь	r
Aquaculture - Mussels (Class E 5)		High - Third party details published in the public domain and confirmed as being 'accurate' by DEFRA.	Dee - Caldy Blacks	Ongoing									31.7	16.7	45.3	ſ	ı	f	r	f	r	f	ı	ſ	d	ь	r
(Class 2)	DEFRA	High - Third party details published in the public domain and confirmed as being 'accurate' by DEFRA.	Liverpool Bay Wirral - Leasowe and New Brighton										31.8	22.3	47.7	ı	ı	ſ	ſ	ſ	r	ſ	ſ	ſ	d	ь	r.
(Class 5)	DEFRA	High - Third party details published in the public domain and confirmed as being 'accurate' by DEFRA.	Dee - Thurstaston	Ongoing									33.0	17.5	46.3	ı	ı	ſ	ſ	ſ	r	ſ	ſ	ſ	d	ь	r.
Aquaculture - Mussels (Class E 5)		High - Third party details published in the public domain and confirmed as being 'accurate' by DEFRA.	Dee - Thurstaston	Ongoing									33.0	17.5	46.3	ı	ı	ſ	ſ	ſ	r	ſ	ſ	ſ	d	ь	r.
(Class 4)	DEFRA	High - Third party details published in the public domain and confirmed as being 'accurate' by DEFRA.	Dee - Thurstaston East	Ongoing									35.6	20.3	49.1	ı	ı	ſ	ſ	ſ	r	ſ	ſ	ſ	d	ь	r.
Oysters (Class 4)	DEFRA	High - Third party details published in the public domain and confirmed as being 'accurate' by DEFRA.	Dee - Thurstaston East	Ongoing									35.6	20.3	49.1	£	r	f	ſ	ſ	r	f	r	f	d	ь	r
Aquaculture - Mussels (Class E 4)		High - Third party details published in the public domain and confirmed as being 'accurate' by DEFRA.	Dee - Thurstaston East	Ongoing									35.6	20.3	49.1	ſ	ı	ſ	i	ſ	ſ	1	r	1	d	ь	r
Aquaculture - Native Oysters E (Class 4)		High - Third party details published in the public domain and confirmed as being 'accurate' by DEFRA. High - Third party details published in the public	Dee - Thurstaston East	Ongoing									35.6	20.3	49.1	r	ı	ſ	ı	ſ	ſ	ſ	ı	ı	d	ь	r
Aquaculture - Tapes Species ( (Class 4)		domain and confirmed as being 'accurate' by DEFRA	Dee - Thurstaston East	Ongoing									35.6	20.3	49.1	r	r	f	r	f	r	f	ı	r	d	ь	t
(Class 4)	DEFRA	High - Third party details published in the public domain and confirmed as being 'accurate' by DEFRA.	Dee - Thurstaston East	Ongoing									35.6	20.3	49.1	r	ı	1	1	f	ſ	1	ı	1	d	ь	r
(Class 4)	DEFRA	High - Third party details published in the public domain and confirmed as being 'accurate' by DEFRA.	Dee - Thurstaston East	Ongoing									35.6	20.3	49.1	f	f	f	ſ	f	f	f	r	f	d	ь	r
(Class 4)	DEFRA	High - Third party details published in the public domain and confirmed as being 'accurate' by DEFRA.	Dee - Thurstaston East	Ongoing									35.6	20.3	49.1	1	1	ſ	i	ſ	f	1	1	1	d	ь	r.
Aquaculture - Hard Clam E (Class 4)		High - Third party details published in the public domain and confirmed as being 'accurate' by DEFRA.	Dee - Thurstaston East	Ongoing									35.6	20.3	49.1	ſ	ı	ſ	i	ſ	ſ	1	1	1	d	ь	£
Aquaculture - Hard Clam E (Class 4)	DEFRA	High - Third party details published in the public domain and confirmed as being 'accurate' by DEFRA.	Dee - Thurstaston East	Ongoing									35.6	20.3	49.1	1	1	ſ	I	ſ	ſ	1	1	1	d	ь	r

	-				Constr	uction Period	l (red out	line deno	tes Awe	el y Môr o	ffshore c	onstructi	on perlo	4)															
Project	Data Source(s)	Data Confidence Assessment	Notes	Status of Development	2020	2021	2023	2024	2025	2026	2028	2029	2030	2030 - 2050	Distance from the Awel y Môr OWF array area (km)	Distance from the Awel y Môr Offshore Export Cable Route (km)	Distance to the AyM Other Offshore Infrastructure Zone	Physical Processes	Water and diment Quality	Benthic and ertidal Ecology	sh and Shellfish Ecology	urine Mammals	Offshore Ornithology	Commercial Fisheries	Shipping and Navigation	ilitary and Civil Aviation	Seascape, Landscape and Visual	thaeology and Jitural Heritage	Other Marine Users and Activities
Aquaculture - Hard Clam	DEFRA	High - Third party details	Dee - Thurstaston East	Ongoing											35.6	20.2	49.1		Se	Ē	æ	ž				Z	-	Ϋ́	4
(Class 4)		High - Third party details published in the public domain and confirmed as being 'accurate' by DEFRA.														20.3	47.1	ı	ſ	ſ	ſ	ſ	ſ	ſ	r	ſ	d	ь	ſ
Aquaculture - Mussels (Class 5)		High - Third party details published in the public domain and confirmed as being 'accurate' by DEFRA.	Menai Strait West - Area 5	Ongoing											38.3	29.9	54.5	f	ſ	f	r	ſ	ſ	r	r	r	d	Ь	£
Aquaculture - Mussels (Class 5)	s DEFRA	High - Third party details published in the public domain and confirmed as	Menai Strait West - Llanfair	Ongoing											38.3	29.9	54.5	f	f	f	r	f	r	r	r	r	d	ь	f
Aquaculture - Pacific Oysters (Class 5)	DEFRA	being 'accurate' by DEFRA. High - Third party details published in the public domain and confirmed as being 'accurate' by DEFRA.	Menai Strait West - Area 5	Ongoing											38.3	29.9	54.5	ſ	ſ	r	r	ſ	r	r	r	r	d	ь	1
Aquaculture - Mussels (Class 5)	s DEFRA	High - Third party details published in the public domain and confirmed as being 'accurate' by DEFRA.	Menai Strait West - Area 1-3	Ongoing											38.3	29.9	54.5	f	r	r	r	f	r	r	r	r	d	ь	r
Aquaculture - Pacific Oysters (Class 5)	DEFRA	High - Third party details published in the public domain and confirmed as	Menai Strait West - Area 2-3	Ongoing											38.3	29.9	54.5	ſ	ſ	1	ſ	r	r	ı	r	r	d	ь	r
Aquaculture - Cockles (Class 4)	DEFRA	being 'accurate' by DEFRA. High - Third party details published in the public domain and confirmed as	Mersey - Mersey (Wallasey)	Ongoing											38.3	29.9	54.5	ſ	ſ	ſ	r	ſ	ı	ı	ı	ſ	d	ь	r
Aquaculture - Pacific Oysters (Class 4)	DEFRA	being 'accurate' by DEFRA. High - Third party details published in the public domain and confirmed as	Mersey - Mersey (Wallasey)	Ongoing											38.3	29.9	54.5	r	f	1	1	F	ſ	r	r	r	d	ь	,
Aquaculture - Mussels (Class 4)	s DEFRA	being 'accurate' by DEFRA. High - Third party details published in the public domain and confirmed as	Mersey - Mersey (Wallasey)	Ongoing											38.3	29.9	54.5	f	1	f	f	f	ſ	1	f	r	d	ь	1
Aquaculture - Native Oyster (Class 4)	s DEFRA	High - Third party details published in the public domain and confirmed as	Mersey - Mersey (Wallasey)	Ongoing											38.3	29.9	54.5	ı	ſ	1	1	ſ	ı	1	ſ	1	d	ь	ſ
Aquaculture - Tapes Species (Class 4)	s DEFRA	being 'accurate' by DEFRA. High - Third party details	Mersey - Mersey (Wallasey)	Ongoing											38.3	29.9	54.5	ſ	r	ſ	ſ	ſ	ſ	ſ	ſ	r	d	ь	r
Aquaculture - Surf Clam (Class 4)	DEFRA	domain and confirmed as being 'accurate' by DEFRA. High - Third party details published in the public domain and confirmed as	Mersey - Mersey (Wallasey)	Ongoing											38.3	29.9	54.5	f	ſ	f	ſ	ſ	f	r	f	r	d	ь	r
Aquaculture - Surf Clam (Class 4)	DEFRA	being 'accurate' by DEFRA. High - Third party details published in the public domain and confirmed as	Mersey - Mersey (Wallasey)	Ongoing											38.8	42.3	38.4	ſ	ſ	f	ſ	f	f	ſ	ſ	r	d	ь	1
Aquaculture - Hard Clam (Class 4)	DEFRA	being 'accurate' by DEFRA. High - Third party details published in the public domain and confirmed as	Mersey - Mersey (Wallasey)	Ongoing											40.0	43.6	39.7	ſ	1	1	ſ	ſ	ſ	ı	r	r	d	ь	1
Aquaculture - Hard Clam (Class 4)	DEFRA	being 'accurate' by DEFRA. High - Third party details published in the public domain and confirmed as being 'accurate' by DEFRA.	Mersey - Mersey (Wallasey)	Ongoing											40.3	43.8	39.9	ſ	ſ	f	ſ	f	f	ſ	ſ	r	d	ь	1
Aquaculture - Hard Clam (Class 4)	DEFRA	High - Third party details published in the public domain and confirmed as	Mersey - Mersey (Wallasey)	Ongoing											40.8	44.4	40.5	ſ	ſ	ſ	r	f	ſ	r	r	r	d	ь	r
Aquaculture - Hard Clam (Class 4)	DEFRA	being 'accurate' by DEFRA. High - Third party details published in the public domain and confirmed as	Mersey - Mersey (Wallasey)	Ongoing											40.8	44.4	40.5	ſ	ſ	r	r	f	r	r	r	r	d	ь	1
Aquaculture - Cockles (Class 5)	DEFRA	being 'accurate' by DEFRA. High - Third party details published in the public domain and confirmed as	Menai Striat West - Traeth Melynog	Ongoing											43.9	49.0	59.3	f	ſ	f	f	f	r	r	r	r	d	ь	r
Aquaculture - Mussels (Class 5)	s DEFRA	being 'accurate' by DEFRA. High - Third party details published in the public domain and confirmed as	Anglsey Inland Sea - Gorsedd y Penrhyn	Ongoing											44.1	47.7	43.7	ſ	ſ	ſ	r	ſ	ı	ı	1	ſ	d	ь	r
Aquaculture - Mussels (Class 3)	s DEFRA	being 'accurate' by DEFRA. High - Third party details published in the public domain and confirmed as	Ribble - Ribble Walls North	Ongoing											44.4	48.4	60.0	r	1	1	1	1	1	1	1	r	d	ь	r
Aquaculture - Cockles (Class 3)	DEFRA	being 'accurate' by DEFRA. High - Third party details published in the public domain and confirmed as	Ribble - Penfold North	Ongoing											48.6	52.8	64.0	1	1	1	1	1	1	1	1	r	d	ь	r
Aquaculture - Cockles (Class 4)	DEFRA	being 'accurate' by DEFRA. High - Third party details published in the public domain and confirmed as being 'accurate' by DEFRA.	Ribble - Ribble Channel	Ongoing											48.6	52.8	64.0	1	1	1	1	1	1	1	1	ſ	d	ь	r
Aquaculture - Mussels (Class 4)	s DEFRA	High - Third party details published in the public domain and confirmed as	Ribble - Ribble Channel	Ongoing											50.1	56.6	49.2	r	f	1	1	f	1	1	1	r	d	ь	1
Aquaculture - Cockles (Class 2)	DEFRA	being 'accurate' by DEFRA. High - Third party details published in the public domain and confirmed as	Lune - Pilling Sands	Ongoing											63.0	70.1	76.0	ſ	£	1	1	F	ſ	r	ſ	r	d	ь	,
Aquaculture - Mussels (Class 5)	s DEFRA	being 'accurate' by DEFRA. High - Third party details published in the public domain and confirmed as	Morecambe Roosebeck - Foulney	Ongoing											66.6	73.4	77.3	r	f	1	1	f	1	1	1	r	d	ь	1
Aquaculture - Pacific Oysters (Class 2)	DEFRA	being 'accurate' by DEFRA. High - Third party details published in the public domain and confirmed as being 'accurate' by DEFRA.	Morecambe Bay Roosebeck - Roosebeck Bed 1	Ongoing											71.1	77.9	81.5	1	1	1	1	1	1	1	1	ſ	d	1	f
Aquaculture - Cockles (Class 2)	DEFRA	High - Third party details published in the public domain and confirmed as	Morecambe Bay - Central West	Ongoing											75.7	82.7	87.1	ſ	f	1	1	F	ſ	r	r	r	d	ь	1
Aquaculture - Cockles (Class 2)	DEFRA	being 'accurate' by DEFRA. High - Third party details published in the public domain and confirmed as	Morecambe Bay - Central East	Ongoing											75.7	82.7	87.3	ſ	ı	1	1	f	ſ	1	r	f	d	ь	1
L	1	being 'accurate' by DEFRA.	1	1												1	1					1							

					Construction	Period (rec	outline de	enotes Av	vel y Môr c	ffshore co	onstructio	n period)										_					
Project	Data Source(s)	Data Confidence Assessment	Notes	Status of Development	2020 2021	2022	2024	2025	2026	2028	2029	2030	Distance from the Awel y Mor OWF array area (km)	Distance from the Awel y Mor Offshore Export Cable Route (km)	Distance to the AyM Other Offshore Infrastructure Zone	Physical Processes	Water and Sediment Quality	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammals	Offshore Ornifhology	Commercial Fisheries	Shipping and Navigation	Military and Civil Aviation	Seascape, Landscape and Visual	Archaeology and Cultural Heritage	Other Marine Users and Activities
Aquaculture - Pacific Oysters (Class 5)	DEFRA	High - Third party details published in the public domain and confirmed as being 'accurate' by DEFRA.	Silloth - Dubmill Scar	Ongoing									145.0	150.4	149.2	f	r	f	f	ſ	ſ	f	f	ſ	d	ь	r
Aquaculture - Cockles (Class 4)	DEFRA	High - Third party details published in the public domain and confirmed as being 'accurate' by DEFRA.	Silloth - Silloth South	Ongoing									150.3	155.7	154.6	f	r	ı	ſ	ſ	r	r	r	r	d	ь	r -
Aquaculture - Pacific Oysters (Class 4)	DEFRA	High - Third party details published in the public domain and confirmed as being 'accurate' by DEFRA.	Silloth - Silloth South	Ongoing									150.3	155.7	154.6	f	ı	ſ	f	ſ	f	f	ſ	r	d	ь	t.
Aquaculture - Mussels (Class 4)		High - Third party details published in the public domain and confirmed as being 'accurate' by DEFRA.	Silloth - Catherinehole Scar	Ongoing									150.3	155.7	154.6	ſ	ı	ſ	ſ	1	ſ	ſ	1	r	d	ь	r -
Aquaculture - Native Oyster (Class 4)		High - Third party details published in the public domain and confirmed as being 'accurate' by DEFRA.	Silloth - Silloth South	Ongoing									150.3	155.7	154.6	ſ	ı	r	ſ	ſ	r	r	ſ	r	d	ь	r
Aquaculture - Tapes Species (Class 4)		High - Third party details published in the public domain and confirmed as being 'accurate' by DEFRA.	Silloth - Silloth South	Ongoing									150.3	155.7	154.6	ſ	ı	ſ	ſ	ſ	f	f	r	r	d	ь	r
Aquaculture - Surf Clam (Class 4)	DEFRA	High - Third party details published in the public domain and confirmed as being 'accurate' by DEFRA.	Silloth - Silloth South	Ongoing									150.3	155.7	154.6	1	ſ	ſ	ſ	1	ſ	ſ	ı	r	d	ь	r -
Aquaculture - Surf Clam (Class 4)	DEFRA	High - Third party details published in the public domain and confirmed as being 'accurate' by DEFR.	Silloth - Silloth South	Ongoing									150.3	155.7	154.6	ſ	ı	ſ	f	ſ	f	r	ſ	r	d	ь	r
Aquaculture - Hard Clam (Class 4)		High - Third party details published in the public domain and confirmed as being 'accurate' by DEFRA.	Silloth - Silloth South	Ongoing									150.3	155.7	154.6	ſ	ı	ſ	ſ	i	ſ	ſ	ſ	r	d	ь	r
Aquaculture - Hard Clam (Class 4)	DEFRA	High - Third party details published in the public domain and confirmed as being 'accurate' by DEFRA.	Silloth - Silloth South	Ongoing									150.3	155.7	154.6	1	ſ	ſ	ſ	1	ſ	ſ	ı	r	d	ь	r -
(Class 4)	DEFRA	High - Third party details published in the public domain and confirmed as being 'accurate' by DEFRA.	Silloth - Silloth South	Ongoing									150.3	155.7	154.6	ſ	ı	ſ	ſ	i	ſ	ſ	ſ	r	d	ь	r
Aquaculture - Hard Clam (Class 4)		High - Third party details published in the public domain and confirmed as being 'accurate' by DEFRA.	Silloth - Silloth South	Ongoing									150.3	155.7	154.6	1	ſ	ſ	ſ	1	ſ	ſ	ı	r	d	ь	r -
Aquaculture - Mussels (Class 5)		High - Third party details published in the public domain and confirmed as being 'accurate' by DEFRA.	Silloth - Silloth South	Ongoing									152.8	158.2	156.9	1	ſ	ſ	ſ	1	ſ	ſ	ı	r	d	ь	r -
Aquaculture - Cockles (Class 3)	DEFRA	High - Third party details published in the public domain and confirmed as being 'accurate' by DEFRA.	Three Rivers - Tywi	Ongoing									189.0	184.8	190.0	ſ	f	ſ	ſ	ſ	f	r	r	r	d	ь	r
Aquaculture - Cockles (Class 3)	DEFRA	High - Third party details published in the public domain and confirmed as being 'accurate' by DEFRA.	Three Rivers - Taf	Ongoing									189.7	186.0	190.5	ſ	f	ſ	ſ	ſ	f	r	r	r	d	ь	r
Aquaculture - Cockles (Class 3)	DEFRA	High - Third party details published in the public domain and confirmed as being 'accurate' by DEFRA.	Three Rivers - Gwendraeth	Ongoing									191.0	186.8	192.0	ſ	ı	ſ	ſ	ſ	f	f	r	r	d	ь	t.
Aquaculture - Cockles (Class 5)	DEFRA	High - Third party details published in the public domain and confirmed as being 'accurate' by DEFRA.	Burry Inlet - Northside: West	Ongoing									195.7	189.9	197.2	ſ	f	ſ	ſ	ſ	f	f	r	r	d	ь	r
Aquaculture - Mussels (Class 2)		High - Third party details published in the public domain and confirmed as being 'accurate' by DEFRA.	Burry Intet - Pwill	Ongoing									195.7	189.9	197.2	1	ſ	ſ	ſ	1	ſ	ſ	ı	r	d	ь	1
Aquaculture - Cockles (Class 3)	DEFRA	High - Third party details published in the public domain and confirmed as being 'accurate' by DEFRA.	Burry Intel - South Mid	Ongoing									197.5	191.9	199.0	1	1	ſ	1	1	ſ	1	1	1	d	ь	1
Aquaculture - Cockles (Class 2)	DEFRA	High - Third party details published in the public domain and confirmed as being 'accurate' by DEFRA.	Burry Inlet - Whitefold Point	Ongoing									197.5	191.9	199.0	1	ı	ſ	1	1	ſ	r	1	ı	d	ь	1
Aquaculture - Mussels (Class 2)		High - Third party details published in the public domain and confirmed as being "accurate" by DEFRA.	Burry Inlet - Whitefold Point	Ongoing									197.5	191.9	199.0	1	ı	ſ	1	1	ſ	r	1	ı	d	ь	1
Aquaculture - Cockles (Class 3)	DEFRA	High - Third party details published in the public domain and confirmed as being 'accurate' by DEFRA.	Burry Intet - Dalton's Point	Ongoing									197.6	191.2	199.4	ſ	ı	ſ	F	ſ	f	r	ſ	r	d	ь	r
Aquaculture - Cockles (Class 3)	DEFRA	High - Third party details published in the public domain and confirmed as being 'accurate' by DEFRA.	Burry Inlet - Southside: South East 4	Ongoing									199.7	193.4	201.3	ſ	ı	ſ	F	ſ	f	r	ſ	r	d	ь	r
Aquaculture - Mussels (Class 5)	s DEFRA	High - Third party details published in the public domain and confirmed as being 'accurate' by DEFRA.	Swansea - Queens Dock	Ongoing									200.9	192.9	203.3	ſ	ı	ſ	f	ſ	f	r	ſ	r	d	ь	t .
Republic of Ireland Fishing Rights	Industry information: DAERA	High - Third party details published in the public domain and confirmed as being 'accurate' by DAERA.		Ongoing									N/A	N/A	N/A	ſ	r	ſ	f	ſ	f	ſ	ſ	ſ	d	r	ŧ

# Offshore Cumulative Effects Assessment Matrix - Offshore Renewable Energy

### RWE instruction Period (red outline denotes Awel v Mör offs Data Confidence Assessment 2021 2022 2023 2026 2025 2026 2027 Data Source(s Status of Development Distance from the Awel y Môr OWF array area (km) Distance from the Awel y Mor Offshore Export Cable Route (km) 2029 20.30 Seascape, Landscape and Visual Other Marine Users and Activities Shipping an Navigatio Iry and Ch Aviatic krchaeology ar Cultural Heritac and Shellf Ecolo ofisha DioritimC Water 4 ent Qu8 Benthic Idal Eco High - Third party project details published in the public domain and confirmed as being 'accurate' by The Crown Estate Swynt y Môr he Crown Estate Offshore Wind Farm perational High - Third party project details published in the publi domain and confirmed as being 'accurate' by The Crown Estate Rhyl Flats shore Wind Farr High - Third party project details published in the public domain and confirmed as being 'accurate' by The Crown Estate ffshore Wind Farm perational Medium - Third party project details published in the public domain but not confirmed as being 'accurate' Tidal Energy North Wales Tidal Energy Project Ocean Energy nstallations Colwyn Bay Tidal Lagoon Ocean Energy nstallations ow - Limited data available n the public domain. Tidal Energy 10.6 High - Third party project details published in the public domain and confirmed as Burbo Bank Extension Operational 32.3 being 'accurate' by The Crown Estate High - Third party project details published in the public domain and confirmed as being 'accurate' by The Crown Estate Burbo Bank Offshore Wind Farm Operational 42.3 Low - Limited data available Offshore Wind Farm in the public domain. Cobra & Flotation Energy -Round 4 Concept/early planning High - Third party project details published in the public domain and confirmed as being 'accurate' by Crown Estate Scotland Port of Mostyn Tidal Lagoo Tidal Energy re-planning 43.8 Medium - Third party project details published in the public Tidal Energy re-planning Ocean Energy Installations domain but not confirmed as being 'accurate' EnBW and BP1 - Round 4 ow - Limited data available n the public domain. Concept/early lanning Low - Limited data available in the public domain. oncept/earl; anning High - Third party project details published in the publis domain and confirmed as being 'accurate' by The Crown Estate perational High - Third party project details published in the public domain and confirmed as being 'accurate' by The Crown Estate perational 62.6 High - Third party project details published in the public domain and confirmed as being 'accurate' by The Crown Estate High - Third party project details published in the public domain and confirmed as being 'accurate' by The Crown Estate perational High - Third party project details published in the public idal Energy Lease Area domain and confirmed as being 'accurate' by The Crown Estate High - Third party project details published in the public domain and confirmed as Morlais Tidal Energy Tidal Energy Lease Area being 'accurate' by The Crown Estate High - Third party project details published in the public domain and confirmed as being 'accurate' by The Crown Estate Walney 2 perational High - Third party project details published in the publis domain and confirmed as being 'accurate' by The Crown Estate Scoping report submitted

					Constru	ction Period	d (red ou	line denot	es Awel y N	Môr offsho	ore constru	uction perio	d)				=											
Project	Data Source(s)	Data Confidence Assessment	Notes	Status of Development	2020	2021 2022	2023	2024	2025 2026	2027	2028	2029 2030	2030 - 2050	Distance from the Awel y Môr OWF array area (km)	Distance from the Awel y Môr Offshore Export Cable Route (km)	Distance to the AyM Other Offshore Infrastructure Zone	Physical Processes	Water and Sediment Quality	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammals	Olfshore Ornithology	Commercial Fisheries	Shipping and Navigation	Military and Civil Aviation	Seascape, Landsca pe and Visual	Archaeology and Cultural Heritage	Other Marine Users and Activities
Holyhead Deep - 0.5MW Demonstrator Site (Minesto)	UKMED	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Tidal Energy - Demostrator Array	Operational										64.4	71.2	63.5	r	r	1	r	r	ь	r	r	r	d	r	r
Drmonde	The Crown Estate	High - Third party project details published in the public domain and confirmed as being 'accurate' by The Crown Estate	Offshore Wind Farm	Operational										65.4	71.3	72.3	ſ	r	ſ	r	ſ	ь	ſ	r	ь	r	r	r
Valney Extension 3	The Crown Estate	High - Third party project details published in the public domain and confirmed as being 'accurate' by The Crown Estate	Offshore Wind Farm	Operational										66.1	71.3	68.0	r	r	r	r	ſ	ь	r	r	ь	r	ſ	r
forecambe Bay Tidal agoon	Ocean Energy Installations	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Tidal Energy	Concept										73.0	80.0	84.8	r	r	r	r	ſ	c	c	c	r	r	ſ	r
ile of Man	4Coffshore	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Offshore Wind Farm	Concept										74.9	82.3	76.7	r	r	r	r	ſ	c	c	c	r	ſ	r	r
Duddon Estuary Tidal .agoon	UKMED	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Tidal Energy	Concept										80.5	86.8	88.4	ſ	r	,	r	ſ	c	c	c	r	r	r	r
lardsey Sound	The Crown Estate	High - Third party project details published in the public domain and confirmed as being 'accurate' by The Crown Estate	Tidal Energy Lease Area	Pre-Planning										95.5	99.3	95.1	ſ	r	r	r	ſ	c	c	c	r	r	r	r
ardsey Sound (Enlli)	UKMED	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Tidal Energy	Pre-planning application										96.3	100.0	95.9	r	r	r	r	r	c	c	c	r	r	r	1
Codling Wind Park	Ireland's Marine Atlas	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Offshore Wind Farm	Concept										129.5	136.1	128.6	ſ	r	r	r	ſ	c	c	c	ſ	ſ	ſ	r
North Irish Sea Array	Ireland's Marine Atlas	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Offshore Wind Farm	Pre-planning application										130.9	139.0	130.1	r	r	r	ſ	ſ	c	c	c	r	ſ	r	r
Iraymore Point	Ireland's Marine Atlas	details published in the public domain but not confirmed as being 'accurate'		Concept										130.9	139.9	130.6	ſ	r	1	r	ſ	c	c	c	ſ	r	ſ	r
Codling Wind Park Extension		Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		Concept										130.9	137.3	130.0	ſ	r	ı	r	r	c	c	c	r	r	r	r
/est Cumbrian Tidal agoon cooley Point	EMODnet 4Coffshore	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		In planning										133.5	138.6	135.3	1	r	1	r	r	r	c	c	r	r	r	,
ublin Array	4Conshore	Medium - Third party project details published in the public domain but not confirmed as being 'accurate' Medium - Third party project		Concept										136.2	145.4	136.0	1	r	,	ı	r	c	c	c	r	r	r	,
ublin Array obin Rigg West	Crown Estate Scotland	details published in the public domain but not confirmed as being 'accurate'		In-planning Operational										136.6	143.9	135.7	ſ	r	1	r	c	c	c	c	ſ	1	ſ	۰
Sherringg West		High - Third party project details published in the public domain and confirmed as being 'accurate' by Crown Estate Scotland		operational										-38.5	144	arma-2	r	r	r	r	r	ь	r	r	r	r	r	r
loger Head	Ireland's Marine Atlas	details published in the public domain but not confirmed as being 'accurate'		Concept										141.2	150.4	141.0	ı	r	1	r	ſ	c	c	c	ſ	r	ſ	,
obin Rigg East	Crown Estate Scotland	High - Third party project details published in the public domain and confirmed as being 'accurate' by Crown Estate Scotland	Offshore Wind Farm	Operational										139.5	144.5	142.1		r	1	ſ	ſ	Ь	r	r	ſ	r	r	r
full of Galloway	UKMED; EMODnet	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Tidal Energy - Demostrator Array	In development										141.3	151.8	140.8		r	,	r	r	c	c	c	r	r	r	,

Project	Data Source(s)	Data Confidence Assessment	Notes	Status of Development	Constru 202	ction Period	(red outlin	e denotes	Awel y M	ör offshore		ction peri	(bo 020	Distance from the	Distance from the	Distance to the	sses	and ality	and logy	lifish logy	nals	hore logy	rcial	and	fion	ape, and sual	and age	and titles
		Assessment		Development	ñ	~ ~	R	~ ~		2	R	~ *	2030 - 2	Awel y Môr OWF array area (km)	Awel y Môr Offshore Export Cable Route (km)	AyM Other Offshore Infrastructure Zone	Phys Proces	Water J Sediment Que	Benthic a Intertidal Ecol	Fish and Shell Ecol	Marine Mamn	Offsh Ornithok	Commer Fishe	Shipping Naviga	Military and ( Avia)	Seasca Landscape . Vis	Archaeology ( Cultural Herit	Other Mar Users - Activi
South Irish Sea Array	Ireland's Marine Atlas	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Offshore Wind Farm	Concept										146.7	152.1	146.0	r	r	r	i	i	c	c	c	r	r	1	r
Strangford Lough Array	EMODnet	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Tidal Energy - Demostrator Array	Pre-Planning										145.6	158.1	144.9	r	r	r	i	i	c	c	c	r	r	,	r
DeepGreen 1/10	Ocean Energy Installations	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Tidal Energy	In Planning										146.0	158.4	145.3	r	r	r	i	i	c	c	c	r	r	,	r
Seagen Strangford Lough	The Crown Estate; UKMEI EMEC Orkney; Ocean Energy Installations	<ol> <li>High - Third party project details published in the public domain and confirmed as being 'accurate' by The Crown Estate</li> </ol>	Tidal Energy	Completed										146.0	158.4	145.3	r	ı	r	r	r	r	r	r	r	r	1	r
Arklow Bank Phase 2	Ireland's Marine Atlas; Developer	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Offshore Wind Farm	Consented										147.1	154.5	146.1	r	r	r	f	r	c	c	c	r	r	r	r
Arklow Bank	Ireland's Marine Atlas	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Offshore Wind Farm	Operational										147.1	154.5	146.1	r	r	ſ	i	ŗ	ь	,	r	r	r	,	r
Strangford Lough	The Crown Estate	High - Third party project details published in the public domain and confirmed as being 'accurate' by The Crown Estate	Tidal Energy Lease Area	Operational										148.0	160.4	147.3	r	r	ſ	r	r	r	r	r	r	r	ſ	1
Strangford Lough	The Crown Estate; EMEC Orkney;	High - Third party project details published in the public domain and confirmed as being 'accurate' by The Crown Estate	Tidal Energy	Completed										148.2	160.6	147.4	r	r	ſ	r	r	r	r	r	r	r	r	r
Evopod E1 Demonstration	EMODnet	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Tidal Energy - Sea Testing	Completed										148.4	160.8	147.7	r	r	r	ſ	r	r	r	r	r	r	r	r
Oriel	Ireland's Marine Atlas	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Offshore Wind Farm	Concept										148.5	160.6	147.6	r	r	r	ſ	r	c	c	c	r	r	r	r
Kilmichael Point	Ireland's Marine Atlas	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Offshore Wind Farm	Concept										149.4	156.1	148.5	r	r	r	ſ	r	c	c	c	r	r	r	r
Solway Firth-Venturi Enhanced Turbine Technology (VETT)	Ocean Energy Installations	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Tidal Energy	In planning										165.3	171.0	169.4	r	r	r	ſ	r	c	c	c	r	r	r	r
Strumble Head Tidal Energ Project	y Ocean Energy Installations	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Tidal Energy	Early planning										175.9	177.2	175.7	r	r	r	r	r	c	c	c	r	r	1	r
St. David's Head	UKMED	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Tidal Energy - Demostrator Array	In development										197.5	199.7	197.3	r	r	r	i	i	c	c	r	r	r	,	r
Ramsey Sound	The Crown Estate	High - Third party project details published in the public domain and confirmed as being 'accurate' by The Crown Estate	Tidal Energy Lease Area	Operational										200.2	202.3	200.0	f	r	r	r	r	ь	r	r	r	r	1	r
Swansea Bay Tidal Lagoor	n UKMED	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Tidal Energy	Consented (expired)										202.1	194.2	205.1	r	r	r	i	ŗ	c	,	r	r	r	,	r
Teesside	The Crown Estate	High - Third party project details published in the public domain and confirmed as being 'accurate' by The Crown Estate	Offshore Wind Farm	Operational										207.7	211.2	223.0	r	r	1	r	ſ	r	r	r	r	r	,	r
Wave Dragon Project - Mill Fjord Site		Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Wave Energy	In planning										218.3	219.6	218.2	r	r	r	r	r	c	t	ſ	r	r	r	r
		<ul> <li>Medium - Third party project details published in the public domain but not confirmed as being 'accurate'</li> </ul>	Tidal Energy - Sea Testing	Completed										218.8	211.7	237.6	r	r	r	i	r	r	r	r	r	r	r	r
Newport Tidal Lagoon	Ocean Energy Systems	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Tidal Energy	Early concept										219.6	205.1	225.6	r	r	ſ	ŗ	r	c	ı	r	r	r	r	r
Cardiff Bay Tidal Lagoon	EMEC Orkney; Ocean Energy Installations	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Tidal Energy	Early planning										223.3	210.0	228.6	r	ſ	ı	i	i	c	ı	ı	r	r	1	,

					Construction P	eriod (red	outline deno	es Awel y Mo	or offshore c	onstruct	tion period)							_				_				-	'
Project	Data Source(s)	Data Confidence Assessment	Notes	Status of Development	2020	2022	2023	2025 2026	2027	8707	2029 2030	2030 - 2050	Distance from the Awel y Môr OWF array area (km)	Distance from the Awel y Mör Offshore Export Cable Route (km)	Distance to the AyM Other Offshore Infrastructure Zone	Physical Processes	Water and Sediment Quality	Benthic and ntertidal Ecology	Fish and Shellfish Ecology	Marine Mammals	Olfshore Ornithology	Commercial Fisheries	Shipping and Navigation	Military and Civil Aviation	Seascape, Landsca pe and Visual	Archaeology and Cultural Heritage	Other Marine Users and Activities
Morlais Orbital O2	UKMED	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Tidal Energy - Sea Testing	In development									226.0	225.1	225.9	ſ	r	r	r	1	c	r	r	r	ı	r	r
Severn Barrage	Ocean Energy Installations	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Tidal Energy	In planning									228.1	219.5	231.3	t	r	r	r	r	r	t	r	r	r	ſ	,
Blyth	The Crown Estate	High - Third party project details published in the public domain and confirmed as being 'accurate' by The Crown Estate	Offshore Wind Farm	Operational									228.8	235.8	240.8	t	r	r	r	ь	r	r	r	r	ſ	r	,
Pulse Stream 100 Demonstration Project	UKMED	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Tidal Energy	Completed									229.0	220.8	247.6	r	r	r	r	r	r	r	r	ſ	r	ſ	,
Blyth Demo Phase 1	The Crown Estate	High - Third party project details published in the public domain and confirmed as being 'accurate' by The Crown Estate	Offshore Wind Farm	Operational									230.7	237.8	243.2	t	r	r	r	r	r	ſ	r	r	r	ſ	,
South Pembrokeshire Demonstration Zone	The Crown Estate	High - Third party project details published in the public domain and confirmed as being 'accurate' by The Crown Estate	Wave Energy	Pre-planning Application									236.5	235.7	236.4	ſ	r	r	r	r	c	ſ	r	r	r	ſ	r
Torr Head	The Crown Estate: UKMED EMEC Orkney; Ocean Energy Installations	<ul> <li>High - Third party project details published in the public domain and confirmed as being 'accurate' by The Crown Estate</li> </ul>	Tidal Energy	Consented									236.6	248.5	236.1	ſ	r	r	r	r	c	r	r	r	ſ	r	,
Torr Head	The Crown Estate		Tidal Energy Lease Area	Consented/ on hold									236.9	248.8	236.3	f	r	r	r	r	c	ſ	r	r	r	r	,
Blyth Demonstration Site	The Crown Estate	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Offshore Wind Farm	Consented									237.0	244.1	249.7	t	r	r	r	r	r	t	r	r	r	r	,
Mull of Kintyre (Phase 2)	UKMED	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Tidal Energy - Demostrator Array	In development									238.8	250.2	238.3	t	r	r	r	r	c	ſ	r	r	r	r	,
Mull of Kintyre (Phase 1)	UKMED	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Tidal Energy - Prototype	Consented									238.8	250.2	238.3	r	r	r	r	r	c	r	r	r	ı	r	r
Fair Head	The Crown Estate	High - Third party project details published in the public domain and confirmed as being 'accurate' by The Crown Estate	Tidal Energy Lease Area	Pre-Planning									241.0	252.9	240.5	r	r	r	r	r	c	ſ	r	r	r	ſ	,
Fair Head Phase 1	UKMED	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Tidal Energy - Demostrator Array	Application submitted									241.3	253.2	240.7	r	r	r	r	r	c	r	r	r	r	r	r
Fair Head Phase 2	UKMED	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Tidal Energy	Application submitted									241.3	253.2	240.7	ſ	r	r	r	r	c	r	r	r	r	r	,
Bridgwater Bay Tidal Lagoon	EMODnet	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Tidal Energy	Concept									244.6	231.8	249.7	t	r	r	r	r	c	t	r	r	r	ſ	,
Bridgewater Bay Tidal Lagoon	Ocean Energy Installations	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Tidal Energy	Concept									244.6	231.8	249.7	ſ	r	1	r	r	r	r	ſ	r	r	r	,
Erebus	4Coffshore	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Offshore Wind Farm	Application submitted									246.3	248.1	246.1	r	r	r	r	r	c	ī	r	r	,	r	,
West Somerset Tidal Lagoor	n UKMED	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Tidal Energy	In development									246.5	234.9	250.9	r	r	r	r	r	c	ī	r	r	,	r	,
Westermost Rough	The Crown Estate	High - Third party project details published in the public domain and confirmed as being 'accurate' by The Crown Estate	Offshore Wind Farm	Operational									247.0	240.2	265.8	f	r	r	r	r	r	r	r	r	r	r	r
Helvick Head	4Coffshore	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Offshore Wind Farm	Concept									252.8	258.4	252.1	r	r	r	r	r	r	r	r	r	r	ſ	r

	B. A. ().				Construction	n Period (red	outline denot	tes Awel y	Mör offshor	e constru	ction perio	d)								<i>s</i>			<b>.</b>	= -		71.4	0 7 0
Project	Data Source(s)	Data Confidence Assessment	Notes	Status of Development	2020	2022	2024	2025	2027	2028	2029	2030 - 2050	Distance from the Awel y Mor OWF array area (km)	Distance from the Awel y Môr Offshore Export Cable Route (km)	Distance to the AyM Other Offshore Infrastructure Zone	Physical Processes	Water and iediment Quality	Benthic and nertidal Ecology	Fish and Shellfish Ecology	Aarine Mammals	Offshore Ornithology	Commercial Fisheries	Shipping and Navigation	Military and Civi Aviation	Seascape Landscape and Visual	Archaeology anc Cultural Heritage	Other Marine Users and Activities
Humber Gateway	The Crown Estate	High - Third party project details published in the public domain and confirmed as being 'accurate' by The Crown Estate	Offshore Wind Farm	Operational									256.3	248.1	275.0	f	r	r	r	r	r	r	f	r	r	1	r
/alorous (Blue Gem Floatin Project)	ig The Crown Estate	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Offshore Wind Farm	Scoping report submitted									257.7	259.6	257.5	ı	ſ	ı	r	i	c	ſ	i	ŗ	ſ	i	r
Cellic Sea	Ireland's Marine Atlas	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Offshore Wind Farm	Concept									266.5	271.8	265.8	r	r	r	r	r	c	r	i	r	r	r	r
nner Dowsing	The Crown Estate	High - Third party project details published in the public domain and confirmed as being 'accurate' by The Crown Estate	Offshore Wind Farm	Operational									270.8	259.2	288.7	ţ	,	r	r	r	,	ı	ŗ	r	,	r	ſ
Lynn	The Crown Estate	High - Third party project details published in the public domain and confirmed as being 'accurate' by The Crown Estate	Offshore Wind Farm	Operational									271.8	259.7	289.6	f	,	ſ	r	r	ı	ı	ŗ	r	r	r	1
lines	The Crown Estate	High - Third party project details published in the public domain and confirmed as being 'accurate' by The Crown Estate	Offshore Wind Farm	Operational									272.0	260.4	289.9	ſ	r	r	r	r	r	ı	ſ	r	,	r	,
Triton Knoll	The Crown Estate	High - Third party project details published in the public domain and confirmed as being 'accurate' by The Crown Estate	Offshore Wind Farm	Under Construction									285.4	275.8	303.9	r	r	ſ	r	r	r	r	r	r	r	r	r
Race Bank	The Crown Estate	High - Third party project details published in the public domain and confirmed as being 'accurate' by The Crown Estate	Offshore Wind Farm	Operational									291.8	281.1	310.0	f	r	ſ	r	r	r	r	f	r	r	ſ	1
Inis Ealga Marine Energy Park	Ireland's Marine Atlas	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Offshore Wind Farm	Concept									294.8	300.6	294.1	r	r	r	r	i	c	r	ſ	r	r	r	1
Sound of Islay Tidal Energy Project	UKMED	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Tidal Energy - Demostrator Array	Consented									297.8	308.6	297.4	t	r	r	r	i	ſ	r	ſ	r	ſ	r	r
West Islay Tidal Energy Park	UKMED	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	2	Consented									298.6	310.5	298.1	ſ	r	r	r	r	ſ	r	I	r	ſ	r	r
Methil Demonstration Project - 2B Energy	EMODnet	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		Planned									299.0	304.6	302.2	r	r	r	r	r	r	r	ſ	r	r	r	r
Methil (Samsung) Demo	EMODnet	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		Operational									300.8	306.4	304.1	ſ	r	r	r	r	r	r	ſ	r	r	r	r
Green Investment Group - Total - Round 4	The Crown Estate	High - Third party project details published in the public domain and confirmed as being 'accurate' by The Crown Estate	Offshore Wind Farm	Concept/early planning									305.7	296.4	324.2	r	,	ſ	ı	r	ſ	ı	r	r	r	r	r
Hornsea Project Four	The Crown Estate	High - Third party project details published in the public domain and confirmed as being 'accurate' by The Crown Estate	Offshore Wind Farm	Application submitted									308.2	303.7	326.6	ſ	ı	r	r	c	r	ı	ſ	r	,	r	r
Sheringham Shoal	The Crown Estate	High - Third party project details published in the public domain and confirmed as being 'accurate' by The Crown Estate		Operational									311.1	299.5	329.1	ſ	,	ſ	ı	r	ı	ı	r	r	r	ſ	ſ
Sheringham Shoal Extension	n The Crown Estate	High - Third party project details published in the public domain and confirmed as being 'accurate' by The Crown Estate		Pre-application									314.2	302.6	332.2	r	r	ſ	r	r	r	r	r	r	r	r	r
Neart na Gaoithe	Crown Estate Scotland	High - Third party project details published in the public domain and confirmed as being 'accurate' by Crown Estate Scotland	Offshore Wind Farm	Under Construction									314.8	321.0	320.7	1	r	r	r	r	r	r	ſ	r	r	r	1
Seagreen Delta	Crown Estate Scotland	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Offshore Wind Farm	Planned									315.9	322.4	323.7	ſ	r	r	ſ	r	r	r	ſ	r	r	r	r
Dudgeon Extension	The Crown Estate	Low - Limited data available in the public domain.	Offshore Wind Farm	Pre-application									318.1	307.6	336.3	r	f	r	f	r	r	r	r	1	r	r	r

				a	Construction	Period (red	outline denot	es Awel y	/ Mör offsho	ore const	ruction per	iod)		a						<i>s</i> .			<b>.</b>	=		7.6	
Project	Data Source(s)	Data Confidence Assessment	Notes	Status of Development	2020	2022	2024	2025	2026	2028	2029	2030 2030 - 2050	Distance from the Awel y Môr OWF array area (km)	Distance from the Awel y Mör Offshore Export Cable Route (km)	Distance to the AyM Other Offshore Infrastructure Zone	Physical Processes	Water and Sediment Quality	Benthic and mertidal Ecology	Fish and Shellfish Ecology	Marine Mammals	Offshore Ornithology	Commercial Fisheries	Shipping and Navigation	Military and Civil Aviation	Seascape Landscape anc Visual	Archaeology anc Cultural Heritage	Other Marine Users and Activities
Thames at Chiswick	Open Energy Information	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Tidal Energy	Completed									319.2	299.5	330.0	r	r	r	r	r	r	r	r	r	r	1	r
Seagreen Charlie	Crown Estate Scotland	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	c	Planned									319.7	326.4	328.7	r	r	ſ	ı	r	ı	r	r	r	i	1	,
Dudgeon	The Crown Estate	High - Third party project details published in the public domain and confirmed as being 'accurate' by The Crown Estate	Offshore Wind Farm C	Operational									328.6	317.9	346.8	r	r	r	ſ	r	ſ	r	r	r	r	1	,
Gkinetics OC1 project	EMODnet	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Tidal Energy - Pilot Device	Completed									330.8	339.4	329.8	1	r	ſ	r	r	r	r	ı	r	r	1	r
Hornsea Project Two	The Crown Estate	High - Third party project details published in the public domain and confirmed as being 'accurate' by The Crown Estate	Offshore Wind Farm	Under Construction									336.6	329.2	355.4	r	r	r	ſ	r	r	r	r	r	r	,	,
Portland Bill	The Crown Estate; UKRED Marine	High - Third party project details published in the public domain and confirmed as being 'accurate' by The Crown Estate	Tidal Energy - Demostrator Array	In Development									337.7	323.2	343.5	r	r	r	r	r	r	r	r	r	r	,	,
Inch Cape	EMODnet	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Offshore Wind Farm	Authorised									338.0	344.2	343.7	1	ſ	ſ	r	ı	r	r	,	ſ	r	1	,
Emerald	4Coffshore; Developer	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Offshore Wind Farm	Concept									338.9	344.6	338.1	ı	r	r	r	r	r	r	r	r	r	,	,
RWE Renewables 1 - Round 4	i The Crown Estate	Low - Limited data available in the public domain.	Offshore Wind Farm	Concept/early planning									339.2	336.8	357.0	ſ	r	r	r	r	ſ	r	r	r	ſ	r	1
Connel PLAT-I Floating Tidal Energy Platform	Crown Estate Scotland	High - Third party project details published in the public domain and confirmed as being 'accurate' by Crown Estate Scotland	Tidal Energy	Completed									343.6	352.1	343.4	t	r	r	r	r	r	r	r	r	r	r	,
Mc Cabe Wave Pump	Marendata	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Wave Energy - Sea Testing	Completed									349.4	358.2	348.4	r	r	r	r	r	r	r	r	r	r	1	r
Hornsea Project One	The Crown Estate	High - Third party project details published in the public domain and confirmed as being 'accurate' by The Crown Estate	Offshore Wind Farm	Operational									349.7	342.2	368.5	t	r	r	r	r	r	r	r	r	r	r	,
Seagreen Alpha	Crown Estate Scotland	High - Third party project details published in the public domain and confirmed as being 'accurate' by Crown Estate Scotland	Offshore Wind Farm	Authorised									352.9	359.2	359.3	r	r	r	r	r	r	r	r	r	r	,	r
Ocean Energy Buoy (CORE Project)	S Marendata	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	2	Completed									353.6	363.5	352.6	ı	r	r	r	r	r	r	r	r	r	,	,
Ocean Energy Buoy (Phase 1)	è Marendata	details published in the public domain but not confirmed as being 'accurate'		Completed									353.6	363.5	352.6	r	r	r	r	r	r	r	r	r	r	1	r
Ocean Energy Buoy (Phase 2)	è Marendata	being 'accurate'	Wave Energy - Sea Testing	Completed									353.6	363.5	352.6	r	r	r	r	r	r	r	r	r	r	1	r
1:5 scale Wave Energy Converter (WEC)	Promoter	domain but not confirmed as being 'accurate'		Completed									353.6	363.5	352.6	ı	r	r	ſ	r	r	r	r	r	r	r	r
Seagreen Bravo	Crown Estate Scotland	High - Third party project details published in the public domain and confirmed as being 'accurate' by Crown Estate Scotland		Authorised									354.0	360.3	360.5	ı	r	r	ſ	r	ſ	r	r	r	r	,	,
Perpetuus Tidal Energy Centre (PTEC)	The Crown Estate	High - Third party project details published in the public domain and confirmed as being 'accurate' by The Crown Estate	Tidal Energy Lease Area	Consented									361.5	343.5	368.9	r	r	r	r	r	r	r	r	r	r	,	,
RWE Renewables 2 - Round 4	i The Crown Estate	Low - Limited data available in the public domain.		Concept/early planning									364.6	361.2	382.8	r	r	r	r	r	r	r	r	r	r	r	r
Dogger Bank B	The Crown Estate	High - Third party project details published in the public domain and confirmed as being 'accurate' by The Crown Estate	Offshore Wind Farm	Consented									365.6	364.4	383.0	ı	r	r	ſ	r	r	r	ı	r	r	r	r

					Constr	uction Perior	d (red out	line denot	es Awel	y Môr offs	shore cor	structio	n period																
Project	Data Source(s)	Data Confidence Assessment	Notes	Status of Development	2020	2021	2023	2024	2025	2026	2021	2029	2030	2030 - 2050	Distance from the Awel y Mor OWF array area (km)	Distance from the Awel y Mor Offshore Export Cable Route (km)	Distance to the AyM Other Offshore Infrastructure Zone	Physical Processes	Water and ediment Quality	Benthic and Netidal Ecology	ish and Shellfish Ecology	Aarine Mammals	Offshore Ornithology	Commercial Fisheries	Shipping and Navigation	Military and Civil Aviation	Seascape, Landscape and Visual	4rchaeology and Cultural Heritage	Other Marine Users and Activities
WaveHub Gwave	UKMED	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Wave Energy	Consented											367.2	364.7	367.2	ı	r N	r -	,	1	ı	r	r	r	r	1	,
WaveHub CETO 6 Phase 1	UKMED	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Wave Energy - Demonstrator Array	y Consented											367.2	364.7	367.2	r	r	r	r	r	r	r	r	r	r	r	r
Wavehub Fortum	UKMED	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Wave Energy - Demonstrator Array	y In development											367.2	364.7	367.2	r	r	r	r	r	ı	r	r	r	r	r	r
WaveHub Seatricity Phase	1 The Crown Estate; UKMEE EMEC Orkney	High - Third party project details published in the public domain and confirmed as being 'accurate' by Crown Estate Scotland	Wave Energy - Sea Testing	Operational											367.2	364.7	367.2	r	r	r	r	r	r	r	r	r	r	r	r
WaveHub Seatricity Phase	2 The Crown Estate; UKMEE EMEC Orkney	High - Third party project details published in the public domain and confirmed as being 'accurate' by Crown Estate Scotland	Wave Energy - Demonstrator Array	y Installed (no grid connection)	E										367.2	364.7	367.2	t	r	r	r	r	r	r	r	r	r	r	
Dogger Bank A	The Crown Estate	High - Third party project details published in the public domain and confirmed as being 'accurate' by The Crown Estate	Offshore Wind Farm	Consented											369.9	367.8	387.6	r	r	r	ſ	r	r	r	r	r	r	r	,
Scroby Sands	The Crown Estate	High - Third party project details published in the public domain and confirmed as being 'accurate' by The Crown Estate	Offshore Wind Farm	Operational											372.3	358.4	389.4	ı	ſ	,	r	b	r	ſ	r	r	ſ	r	r.
Rampion 2	The Crown Estate	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Offshore Wind Farm	Pre-planning Ap	plication										375.5	356.2	383.6	r	r	r	r	r	ı	r	r	r	r	r	,
FaBTest Polygen	UKMED	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Wave Energy - Sea Testing	Operational											378.3	373.6	379.3	ı	r	r	r	r	ı	r	r	ŗ	r	r	,
Gunfleet Sands	The Crown Estate	High - Third party project details published in the public domain and confirmed as being 'accurate' by The Crown Estate	Offshore Wind Farm	Operational											379.1	361.3	393.2	r	ſ	r	r	r	r	r	r	r	r	r	,
Gunfleet Sands Demo	The Crown Estate	High - Third party project details published in the public domain and confirmed as being 'accurate' by The Crown Estate	Offshore Wind Farm	Operational											380.2	362.3	394.2	1	r	,	r	r	ı	ſ	r	r	ſ	r	,
Gunfleet Sands II	The Crown Estate	High - Third party project details published in the public domain and confirmed as being 'accurate' by The Crown Estate	Offshore Wind Farm	Operational											381.0	363.2	395.1	1	r	,	r	r	,	r	r	r	r	r	,
Rampion	The Crown Estate	High - Third party project details published in the public domain and confirmed as being 'accurate' by The Crown Estate	Offshore Wind Farm	Operational											382.1	362.5	390.8	ı	r	,	ſ	r	r	ſ	r	r	ſ	r	,
Wave Net Array	UKMED2	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Wave Energy	Completed											382.2	391.5	381.8	ı	ſ	r	r	r	r	r	r	r	r	r	r -
Hornsea Project Three	The Crown Estate	High - Third party project details published in the public domain and confirmed as being 'accurate' by The Crown Estate	Offshore Wind Farm	In Planning											387.1	380.3	405.9	r	r	r	ſ	c	r	r	r	r	r	r	,
Kentish Flats Extension	The Crown Estate	High - Third party project details published in the public domain and confirmed as being 'accurate' by The Crown Estate	Offshore Wind Farm	Operational											387.5	368.9	400.5	ſ	ſ	r	ſ	r	1	r	r	r	r	r	,
Kentish Flats	The Crown Estate	High - Third party project details published in the public domain and confirmed as being 'accurate' by The Crown Estate	Offshore Wind Farm	Operational											388.5	370.0	401.6	ſ	ſ	r	ſ	ſ	ſ	r	r	r	r	r	'
Pendeen Array (Oceanus)	2) UKMED	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Wave Energy - Sea Testing	In development											389.9	387.8	389.9	1	ſ	r	r	ſ	ſ	ſ	r	r	1	r	,
London Array	The Crown Estate	High - Third party project details published in the public domain and confirmed as being 'accurate' by The Crown Estate	Offshore Wind Farm	Operational											397.6	379.8	411.6	r	r	,	,	r	,	ſ	r	r	r	r	,

					Constr	uction Period	l (red outli	ine denote	es Awel y	y Môr offsh	ore cons	truction	period)													_			
Project	Data Source(s)	Data Confidence Assessment	Notes	Status of Development	2020	2021	2023	2024	2025	2026	2028	2029	2030	2030 - 2050	Distance from the Awel y Môr OWF array area (km)	Distance from the Awel y Mör Offshore Export Cable Route (km)	Distance to the AyM Other Offshore Infrastructure Zone	Physical Processes	Water and ediment Quality	Benthic and Metidal Ecology	ish and Shellfish Ecology	Aarine Mammals	Offshore Ornithology	Commercial Fisheries	Shipping and Navigation	Military and Civil Aviation	Seascape, Landsca pe and Visual	Archaeology and Cultural Heritage	Other Marine Users and Activities
Wavebob ADM-1	Marendata	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Wave Energy - Sea Testing	Completed											398.3	409.5	397.3	r	l v	,	r	1	r	r	ſ	r	,	r r	,
Wavebob ADM-2	Marendata	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Wave Energy - Sea Testing	Completed											398.3	409.5	397.3	r	i	r	r	r	r	r	r	r	r	r	,
WestWave Demonsatation Project	Ireland's Marine Atlas; Ocean Energy Ireland	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Wave Energy Test Site	In development											399.3	408.4	398.3	r	r	r	r	r	r	r	r	r	r	r	r.
Isle of Muck	Ocean Energy Installations	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Wave Energy	Operational											399.9	409.3	399.5	r	i	r	r	r	r	r	r	r	r	r	r
Sofia	The Crown Estate	High - Third party project details published in the public domain and confirmed as being 'accurate' by The Crown Estate	Offshore Wind Farm	Consented											400.1	399.0	417.4	r	ſ	,	r	c	r	r	ſ	r	r	,	,
North Vanguard West	The Crown Estate	High - Third party project details published in the public domain and confirmed as being 'accurate' by The Crown Estate	Offshore Wind Farm	Consented											400.2	387.9	417.9	r	ſ	r	r	c	r	r	ſ	r	ſ	r	
Kincardine	Crown Estate Scotland	High - Third party project details published in the public domain and confirmed as being 'accurate' by Crown Estate Scotland	Offshore Wind Farm	Under Construction											403.5	409.6	409.3	r	ſ	r	r	r	,	r	ſ	r	ſ	r	
Greater Gabbard Extension	The Crown Estate	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Offshore Wind Farm	Concept											405.4	389.0	420.8	r	ſ	r	r	r	r	r	ſ	r	r	r	,
Greater Gabbard	The Crown Estate	High - Third party project details published in the public domain and confirmed as being 'accurate' by The Crown Estate	Offshore Wind Farm	Operational											407.8	391.4	423.2	r	r	r	r	r	r	r	r	r	r	r	,
East Anglia Two	The Crown Estate; Developer	High - Third party project details published in the public domain and confirmed as being 'accurate' by The Crown Estate	Offshore Wind Farm	In Planning											408.4	393.5	424.9	r	ſ	r	r	c	ı	r	ſ	r	ſ	r	
Galloper	The Crown Estate	High - Third party project details published in the public domain and confirmed as being 'accurate' by The Crown Estate	Offshore Wind Farm	Operational											411.6	395.3	427.1	r	r	r	r	r	r	r	r	ſ	r	r	r
East Anglia One North	The Crown Estate; Developer	High - Third party project details published in the public domain and confirmed as being 'accurate' by The Crown Estate	Offshore Wind Farm	In Planning											413.6	399.1	430.4	r	ſ	r	r	c	r	r	ſ	r	ſ	r	,
Thanet	The Crown Estate	High - Third party project details published in the public domain and confirmed as being 'accurate' by The Crown Estate	Offshore Wind Farm	Operational											419.2	401.1	432.8	r	r	ſ	r	r	r	r	r	r	r	r	,
Galloper Extension (Five Estuaries)	The Crown Estate	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Offshore Wind Farm	Concept											420.4	404.3	436.1	r	r	r	r	r	r	r	ſ	r	r	r	,
Alderney Race Tidal	EMODnet	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Tidal Energy - Sea Testing	In planning											423.9	409.4	429.6	r	r	ı	r	r	r	r	ſ	ŗ	r	r	,
EOWDC (Aberdeen)	Crown Estate Scotland	High - Third party project details published in the public domain and confirmed as being 'accurate' by Crown Estate Scotland	Offshore Wind Farm	Operational										_	424.2	430.3	429.2	r	ſ	r	r	r	r	r	ſ	r	ſ	r	,
Norfolk Bareas	The Crown Estate	High - Third party project details published in the public domain and confirmed as being 'accurate' by The Crown Estate	Offshore Wind Farm	In Planning											427.5	416.0	445.5	r	r	ſ	r	c	ſ	r	ſ	ſ	r	1	,
Raz Blanchard / Alderney Race	Ocean Energy Installations	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Tidal Energy	Early concept											427.7	413.0	433.6	r	1	r	r	ı	r	r	1	r	r	1	,
East Anglia One	The Crown Estate: Developer	High - Third party project details published in the public domain and confirmed as being 'accurate' by The Crown Estate	Offshore Wind Farm	Operational											429.1	414.2	445.6	r	1	,	r	,	r	r	1	1	r	,	

					Constru	ction Peri	od (red ou	tline deno	otes Awe	el y Môr	offshore	constru	uction pe	riod)															
Project	Data Source(s)	Data Confidence Assessment	Notes	Status of Development	2020	2021	2023	2024	2025	2026	2027	2028	2029	2030 2030 - 2050	Distance from the Awel y Môr OWF array area (km)	Distance from the Awel y Môr Offshore Export Cable Route (km)	Distance to the AyM Other Offshore Infrastructure Zone	Physical Processes	Water and Sediment Quality	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammals	Offshore Ornithology	Commercial Fisheries	Shipping and Navigation	Military and Civil Aviation	Seascape, Landscape and Visual	Archaeology and Cultural Heritage	Other Marine Users and Activities
North Vanguard East	The Crown Estate	High - Third party project details published in the public domain and confirmed as being 'accurate' by The Crown Estate	Offshore Wind Farm	Consented											431.6	419.1	449.3	ı	r	1	r	c	r	r	ſ	r	r	,	,
Nephtyd	Ocean Energy Installations	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Tidal Energy	Suspended											432.2	417.2	438.1	ı	r	r	r	r	r	r	r	r	r	r	,
Normandie Hydro	Ocean Energy Installations	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Tidal Energy	Consented											432.2	417.2	438.1	t	r	r	r	r	r	r	r	r	r	r	r.
East Anglia Three	The Crown Estate; Developer	High - Third party project details published in the public domain and confirmed as being 'accurate' by The Crown Estate		Consented											434.2	421.3	451.7	r	r	r	r	r	r	,	ſ	r	r	,	,
Dogger Bank C	The Crown Estate	High - Third party project details published in the public domain and confirmed as being 'accurate' by The Crown Estate	Offshore Wind Farm	Consented											435.3	433.2	452.9	ı	ŗ	r	r	c	r	,	ſ	r	r	,	,
Hywind II Demonstration	Crown Estate Scotland	High - Third party project details published in the public domain and confirmed as being 'accurate' by Crown Estate Scotland	Offshore Wind Farm	Operational											463.6	469.9	469.8	ı	r	r	r	r	r	,	ſ	r	r	,	,
PowerBuoy Mark 3 ocean trials	TETHYS	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Wave Energy - Sea Testing	Completed											467.8	473.1	467.8	ı	r	r	r	r	r	r	r	r	r	r	r
Mermaid (Seamade)	EMODnet; Developer	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Offshore Wind Farm	Under Construction											470.8	454.5	486.3	ı	r	r	ı	r	r	r	,	r	r	r	,
Mermaid	EMODnet: Ocean Energy Installation: Developer	<ul> <li>Medium - Third party project details published in the public domain but not confirmed as being 'accurate'</li> </ul>	Hybrid Wave/Wind Energy	Consented											473.1	456.7	488.5	ı	r	r	ı	r	r	r	,	r	r	r	,
Northwester 2	EMODnet	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Offshore Wind Farm	Operational (May 2020)											473.5	457.1	488.9	ı	r	r	r	r	r	r	r	r	r	r	r
OWF Borssele IV	EMODnet	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Offshore Wind Farm	Under Construction											473.8	457.5	489.3	ı	r	r	r	r	r	r	r	r	r	r	r
Fecamp	EMODnet	details published in the public domain but not confirmed as being 'accurate'		In Planning											474.0	454.6	482.4	ı	r	r	r	r	r	r	ſ	r	r	,	,
Belwind Phase 2 (Nobelwind) (Zone 1)	EMODnet	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Offshore Wind Farm	Operational											477.2	460.8	492.6	ı	r	r	r	i	ı	r	r	r	t	t	,
Belwind Phase 1	EMODnet	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Offshore Wind Farm	Operational											478.1	461.8	493.6	1	ŗ	r	r	ŗ	ı	r	r	r	t	r	r
Belwind Phase 2 (Nobelwind) (Zone 2)	EMODnet	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Offshore Wind Farm	Operational											480.7	464.3	496.2	ı	ŗ	r	r	r	r	r	r	r	r	r	1
Seastar (Seamade)	EMODnet; Developer	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Offshore Wind Farm	Under Construction											483.1	466.5	498.3	ı	r	r	r	r	r	ſ	r	r	r	r	r
Courseulles-sur-mer	EMODnet	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		In Planning											484.1	466.4	491.4	ı	ı	r	r	r	r	r	1	r	1	r	r
OWF Borssele III	EMODnet	details published in the public domain but not confirmed as being 'accurate'		Under Construction											484.5	468.2	500.0	r	r	r	r	r	r	r	r	r	r	r	r
Northwind	EMODnet	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	2	Operational											486.5	469.9	501.7	r	ſ	r	r	r	r	r	ſ	r	ſ	r	r
OWF Borssele I	EMODnet	details published in the public domain but not confirmed as being 'accurate'		Under Construction											486.5	470.4	502.1	r	r	r	r	r	r	r	ſ	r	ſ	r	r
Rentel	EMODnet	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Offshore Wind Farm	Operational											488.8	472.2	504.0	r	r	r	r	r	r	r	r	r	r	r	r

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roject	Data Source(s)	Data Confidence Assessment	Notes	Status of Development	2020	2021	2023	2024	2025	2027	2028	2029	2030 - 2050	Distance from the Awel y Môr OWF array area (km)	Distance from the Awel y Mör Offshore Export Cable Route (km)	Distance to the AyM Other Offshore Infrastructure Zone	Physical Processes	Water and Sediment Quality	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammals	Offshore Ornithology	Commercial Fisheries	Shipping and Navigation	Military and Civil Aviation	Seascape, Landscape and Visual	Archaeology and Cultural Heritage	Other Marine Users and Activities
Dieppe - Le Treport	EMODnet	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Offshore Wind Farm	In Planning										490.4	470.4	500.2	r	r	1	r	r	r	r	r	r	r	r	r
C-Power (Zone A)	EMODnet	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		Operational										490.9	474.2	506.1	r	r	r	r	r	ı	ı	r	i	r	r	'
OWF Borssele II	EMODnet	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Offshore Wind Farm	Under Construction										493.2	477.1	508.8	r	r	ı	r	r	r	r	r	i	r	t	r -
C-Power (Zone B)	EMODnet	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Offshore Wind Farm	Operational										494.4	477.8	509.7	r	r	ı	r	r	r	r	r	ŗ	r	t	٢
Norther	EMODnet: Developer	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Offshore Wind Farm	Operational (May 2020)										496.0	479.2	511.1	r	r	ı	r	r	r	r	r	ŗ	r	t	r
Saint-Brieuc	EMODnet	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Offshore Wind Farm	In Planning										504.8	492.0	509.6	r	r	r	r	r	r	r	r	r	r	r	r
Paimpol Brehat Tidal Farm	Ocean Energy Installations	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Tidal Energy	Completed										509.1	497.3	513.4	r	r	r	r	r	r	r	r	r	r	r	r
Paimpol Brehat (test 1)	Ocean Energy Installations	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Tidal Energy - Sea Testing	Completed										509.1	497.3	513.4	r	r	r	r	r	r	r	r	r	r	r	r
Paimpol Brehat (test 2)	Ocean Energy Installations	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Tidal Energy - Sea Testing	Completed										509.1	497.3	513.4	r	r	,	r	r	ı	1	r	r	r	r	'
DceanQuest	EMODnet	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Tidal Energy Prototype - Sea Testing	Completed										509.1	497.3	513.4	r	r	,	r	r	ı	1	r	r	r	r	'
lan Sea	Press Release	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Wave Energy - Sea Testing	Completed										509.6	492.2	524.1	ſ	r	r	r	r	r	r	r	r	r	r	r

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### Offshore Cumulative Effects Assessment Matrix - Oil and Gas

						Cumulative																					R\	NE
Project	Data Source(s)	Data Confidence Assessment	Notes	Status of Development	Construc 07 07	Ition Period	(red outlii 202	e denotes A 50 54 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 50 5	Awel y M 9707	Aör offshore const 2007 2007 2007 2007	ruction pe	(boing 5030	20	Distance from the Awel y Môr OWF array area (km)	Distance from the Awel y Môr Offshore Export Cable Route (km)	Distance to the AyM Other Offshore Infrastructure Zone	Physical Processes	Water and Sediment Quality	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammals	Offshore Omithology	Commercial Fisheries	Shipping and Navigation	Military and Civil Aviation	Seascape, Landscape and Visual	Archaeology and Cultural Heritage	Other Marine Users and Activities
United Kingdom Liverpool Bay Buoy 2: KFB 08/2005	Oil and Gas Authority	Medium - Third party project details published in the publis domain but not confirmed as being 'accurate'	2	Removed										2.8	2.7	16.1	g	g	9	g	g	9	g	g	9	d	g	9
Liverpool Bay Buoy 2: KFB 16/2009	Oil and Gas Authority	Medium - Third party project details published in the publi domain but not confirmed as being 'accurate'	Proudman	Removed										2.8	2.7	16.1	g	g	g	g	g	g	g	g	g	d	g	9
Liverpool Bay Buoy 2: KFB 06/2007	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Proudman	Removed										2.8	2.7	16.1	9	9	g	9	g	9	g	g	9	d	g	g
Liverpool Bay Buoy 2: KFB 07/2009	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Proudman	Removed										2.8	2.7	16.1	9	9	g	9	g	9	g	g	9	d	g	g
Liverpool Bay Waverider Buoy B: KFB 07/2010	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Proudman	Removed										2.8	2.7	16.1	g	g	g	g	g	g	g	9	9	d	g	g
Gwynt y Môr Waverider Buoy: KFB 05/2006	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	2	Removed										2.9	8.4	21.1	g	g	g	9	g	9	g	9	9	d	g	g
Liverpool Bay Waverider Buoy: KFB 24/2004	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	2	Removed										2.9	8.4	21.1	9	g	g	9	g	9	g	9	9	d	g	g
Douglas DA	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Eni Accomodation Jackup	Operational										5.6	12.4	21.9	d	d	ь	d	d	d	d	d	d	d	ь	d
Douglas DP	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Eni Production Steel	Operational										5.6	12.5	22.0	d	d	ь	e	d	d	d	d	d	d	ь	d
Douglas DW	Oil and Gas Authority	Medium - Third party project details published in the publi domain but not confirmed as being 'accurate'	Eni Wellhead Stell	Active										5.6	12.5	22.1	d	d	Ь	d	d	d	d	d	d	d	ь	d
Rhyl Flats Waverider Buoy: KFB 05/2006	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	N Power	Removed										9.2	0.0	20.4	g	g	g	g	g	9	g	9	9	d	g	g
Liverpool Bay Buoy: KFB 22/2008	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Proudman	Removed										11.9	17.9	30.3	g	g	g	9	g	9	g	9	9	d	g	g
Hamilton A	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Eni (Gas)	Operational										13.3	20.3	30.7	ı	r	r	r	r	r	r	r	r	d	Ь	r
Conwy Platform NPAI	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Tailwind (Oil)	Operational										15.1	20.0	21.5	r	r	r	r	r	r	r	r	r	d	Ь	r
Buoy 1: KFB 16/2002	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	2	Removed										17.1	21.2	35.9	g	g	g	9	g	9	g	9	9	d	g	g
Liverpool Bay Buoy: KFB 11/2004	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Proudman	Removed										17.1	21.2	35.9	g	g	g	9	g	9	g	9	9	d	g	g
Liverpool Bay Buoy 1: KFB 08/2005	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	2	Removed										17.1	21.2	35.9	9	g	g	9	g	9	g	9	9	d	g	g
Liverpool Bay Buoy 1: KFB 06/2007	Oil and Gas Authority	Medium - Third party project details published in the publi domain but not confirmed as being 'accurate'	Proudman	Removed										17.1	21.2	35.9	g	g	g	g	g	9	g	9	g	d	9	9
Liverpool Bay Buoy 1: KFB 16/2009	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Proudman	Removed										17.1	21.2	35.9	a	g	g	g	g	g	g	9	9	d	g	g
Liverpool Bay Buoy1: KFB 07/2009	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Proudman	Removed										17.1	21.2	35.9	g	g	g	g	g	g	g	g	g	d	g	9
Liverpool Bay Waverider Buoy A: KFB 07/2010	Oil and Gas Authority	Medium - Third party project details published in the publi domain but not confirmed as being 'accurate'	Proudman	Removed										17.1	21.2	35.9	9	g	g	g	g	9	g	g	9	d	g	9
	-	-	1	-									_		1	1	-											

					Constru	uction Pe	riod (red out	line deno	tes Awel	y Môr off	shore co	nstruction	period)																
Project	Data Source(s)	Data Confidence Assessment	Notes	Status of Development	2020	2021	100 boli 2023 2023 2023	2024	2025	2026	202/ 2028	2029	2030	2030 - 2050	Distance from the Awel y Mor OWF array area (km)	Distance from the Awel y Môr Offshore Export Cable Route (km)	Distance to the AyM Other Offshore Infrastructure Zone	Physical Processes	Water and iediment Quality	Benthic and ntertidal Ecology	Fish and Shellfish Ecology	Aarine Mammals	Offshore Ornithology	Commercial Fisheries	Shipping and Navigation	Military and Civil Aviation	Seascape, Landsca pe and Visual	urchaeology and Cultural Heritage	Other Marine Users and Activities
Liverpool Bay Buoy: KFB 07/2012	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Cefas	Active											17.5	21.6	36.3	r	r	<u>-</u> ۱	r	r	r	r	r	r	d	<u>ه</u>	ı –
Liverpool Bay Smart Buoy: KFB20/2012 AREA5	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Cefas	Active											17.9	21.9	36.7	r	r	r	r	r	r	r	r	r	d	b	t.
Liverpool Bay: KFB 09/2003	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Proudman	Removed											17.9	21.9	36.7	9	g	9	g	g	g	9	9	9	d	g	9
Hamilton North	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Eni (Gas)	Operational											19.4	26.3	33.0	ı	r	,	r	r	r	ı	r	i	d	ь	,
OSI (Offshore Storage Inst.) FPSO	Oil and Gas Authority	being 'accurate'	Eni Storage Unit Attached to Calram Buoy	Active											21.8	28.0	31.9	r	ſ	r	r	r	r	r	r	r	d	b	ı –
Point of Ayr Terminal	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		Active											23.7	7.7	38.0	d	ь	d	d	d	d	d	d	d	d	b	d
Liverpool Bay Buoy 3: KFB 16/2009	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		Removed											27.5	15.1	43.7	g	g	g	g	g	g	g	g	g	d	g	9
Liverpool Bay Buoy 3: KFB 06/2007	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		Removed											27.5	15.1	43.7	9	g	9	g	g	g	9	9	9	d	g	9
Liverpool Bay Buoy3: KFB 07/2009	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		Removed											27.5	15.1	43.7	g	g	g	g	g	g	g	g	g	d	g	g
Liverpool Bay Waverider Buoy D: KFB 07/2010	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		Removed											27.5	15.1	43.7	g	g	g	g	g	g	g	g	g	d	g	g
Lennox	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		Active											32.7	37.2	50.5	ı	r	r	r	r	r	r	r	r	d	b	r -
Calder CA1 Platform	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	2	Operational											35.3	40.3	38.9	ı	r	r	r	r	r	r	r	r	d	ь	r -
Calder Platform	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		Operational											35.3	40.3	38.9	ı	r	r	r	r	r	r	r	i	d	b	,
South Morecambe DP3	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		Decommission											36.3	42.0	42.8	g	g	g	g	g	g	9	9	9	d	g	9
South Morecambe AP1	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		Operational											39.5	45.0	45.0	ı	r	r	r	ı	r	ı	r	i	d	b	r -
Accomodation Platform AP1		Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		Operational											39.5	45.0	45.0	ı	r	r	r	ı	r	ı	r	i	d	b	r -
South Morecambe CPP1	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		Operational											39.6	45.0	45.0	r	ſ	r	r	r	r	r	r	L	d	b	ı
Central Production Platform CPP1		Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		Operational											39.6	45.D	45.0	ı	r	ı	r	r	r	r	r	ı	d	b	r -
South Morecambe DP1	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		Operational											39.6	45.1	45.1	ı	r	,	r	r	r	r	r	ı	d	Ь	r
Drilling Platform DP1	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		Operational											39.6	45.1	45.1	r	r	r	r	r	r	r	r	r	d	ь	r -
South Morecambe FL1	Oil and Gas Authority	details published in the public domain but not confirmed as being 'accurate'		Operational											39.7	45.1	45.1	r	r	r	r	ſ	r	r	r	r	d	Ь	r
Flare Tripod	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Chrysaor	Operational											39.7	45.1	45.1	ı	r	r	r	r	r	r	r	r	d	b	r -

	Data Source(s)	Data Confidence			Construct	on Period (r	ed outline	e denotes A	wel y Mo	ör offshor	re constr	uction p	period)	_	L		I	- 4			165			- 4	<b>.</b>			3 0	
oject	Data Source(s)	Data Contidence Assessment	Notes	Status of Development	2020	00 Penda (0	2023	2024	2026	2021	2026	2025		2030 - 2050	Distance from the Awel y Môr OWF array area (km)	Distance from the Awel y Môr Offshore Export Cable Route (km)	Distance to the AyM Other Offshore Infrastructure Zone	Physica Processe:	Water and ediment Quality	Benthic and Nertidal Ecology	ish and Shellfish Ecology	Aarine Mammal	Offshore Ornithology	Commercia Fisherie:	Shipping and Navigatio	Military and Civi Aviation	Seascape Landscape and Visua	Archaeology an Cultural Heritage	Other Marine Users and Activitie:
ateway Gas Storage oject	The Crown Estate	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Gateway Storage Project Limited	In Planning											40.5	46.9	49.6	g	g	9	g	g	g	g	c	g	d	c	g
P6 Platform	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Chysaor	Operational											41.6	46.8	45.8	r	r	r	r	r	r	r	r	r	d	ь	r
uth Morecambe DP6	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Spirit Energy	Operational											41.6	46.8	45.8	r	r	ſ	r	r	r	r	r	r	d	ь	1
24 Platform	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Chrysaor	Operational											42.9	48.5	48.5	ı	r	r	r	r	r	r	r	r	d	ь	r
outh Morecambe DP4	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Spirit Energy	Decommission											42.9	48.5	48.5	g	9	g	9	9	9	9	9	9	d	g	9
P8 Platform	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Chrysaor	Operational											44.5	49.7	48.4	ı	r	r	r	r	r	r	r	r	d	ь	r -
outh Morecambe DP8	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Spirit Energy	Operational											44.5	49.7	48.4	ı	r	r	r	r	r	r	ı	r	d	ь	r
orth Morecambe DPPA	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Spirit Energy (Gas)	Operational											52.2	57.2	54.6	ı	r	r	r	r	r	r	ı	r	d	r	,
orth Morecambe Platform	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Chrysaor	Operational											52.2	57.2	54.6	ı	r	r	r	r	r	r	r	r	d	r	r
est Duddon Sands averider Buoy: KFB 20/2009	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		Removed											57.7	63.7	64.3	ı	r	r	r	r	r	r	r	r	d	r	r
illom West Platform	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Chrysaor	Operational											59.9	65.6	60.0	ſ	r	r	r	r	r	r	r	r	d	r	1
illom West Remote Drilling nd Production Platform	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Spirit Energy	Operational											59.9	65.6	60.0	r	r	r	r	r	r	r	ı	r	d	r	1
htning Knoll Wavrider oy: KFB 21/2009	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	APA Barrow	Removed											61.6	68.3	71.6	r	r	r	r	r	r	r	ı	r	d	r	1
ghtning Knoll 2 Wavrider Io:KFB 25/2009	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	APA Barrow	Removed											62.5	69.1	72.2	ı	r	r	r	r	r	r	ı	r	d	r	r
le Gauge Buoy: KFB /2009	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		Removed											63.0	69.6	72.7	r	r	r	r	r	r	r	ı	r	d	r	r
rrow-in-Furness Gas minal	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		Operational											72.6	79.2	82.2	ı	r	r	r	ı	r	r	ı	r	d	r	r
en Mooan Terminal	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	:	Operational											98.3	109.4	97.9	r	r	r	r	r	r	r	ı	r	d	r	r
eanographic Buoy: KFB (2010		Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Cefas	Removed											101.9	107.2	104.8	ı	r	ı	ı	ı	r	1	ı	r	d	r	ı
ughshinny Terminal	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	:	Operational											145.4	156.1	144.4	ı	r	r	r	r	r	r	1	r	d	r	r
ymore Point Terminal	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		Operational											155.0	166.1	154.0	ı	r	ı	r	r	r	r	ı	r	d	r	r
sewall Point Terminal	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		Operational											185.8	196.4	185.4	ı	r	ı	r	r	r	r	ı	r	d	r	r
nd Magee Terminal	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		Operational											194.3	206.3	193.7	ı	r	r	r	ı	1	1	1	r	d	r	1

roject	Data Source(s)	Data Confidence	Notes	Status of	Construc	lion Period (r	red outlin ສ	ne denotes a	Awel y Me	ör offshor	e constru	uction pe	eriod)	Distance	e from the	Distance from the	Distance to the	al ps	<u>4</u> ⊈	P 6	4 <u>5</u>	sle	re Jy	al ps	28	<b>≣</b> ∈	age.	pe	8 2 8
		Assessment		Development	202	502	202	202	202	202	202	202	2030 2030 - 2050		e from the Mor OWF ea (km)	Awel y Môr Offshore Export Cable Route (km)	Distance to the AyM Other Offshore Infrastructure Zone	Physic. Processe	Water an Sediment Quali	Benthic an ntertidal Ecolog	Fish and Shellfi Ecolog	Marine Mamma	Offshor Ornitholog	Commerci. Fisherio	Shipping ar Navigatio	Military and Ch Aviatio	Seascap Landscape ar Visu	Archaeology an Cultural Heritag	Other Marin Users an Activitié
erpool Bay Seabed oring: KFB 08/2010	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Proudman	Removed										5.3		10.7	18.1	g	9	g	g	9	9	9	g	9	d	g	9
erpool Bay Seabed oring 2: KFB 26/2010	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Seafish	Removed										5.3		10.7	18.1	g	g	g	g	g	g	g	a	g	d	g	g
uglas 14 SSBV	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Eni	Active										5.7		12.5	22.0	1	r	r	r	r	r	r	r	r	d	ı	r -
y 1: KFB 11/2002	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Celtic Offshore	Removed										8.9		2.8	18.7	g	g	g	g	g	g	g	g	g	d	g	g
oy: KFB 12/2002	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Celtic Offshore	Removed										8.9		2.8	18.7	g	g	g	g	g	g	g	a	a	d	g	g
agging Hazard -Concrete attress - KFB 07/2013 - Area	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Tailwind	Active										10.9		16.3	21.0	ı	r	r	r	r	r	r	r	r	d	r	r
edge Pipe KFB: 24/2016	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Seafish	Active										14.0		12.0	31.5	1	r	r	r	r	r	r	r	r	d	ı	1
ave Buoy Anchor and 6M ain	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		Active										16.3		18.6	35.0	1	r	i	r	i	r	r	r	r	d	1	r
erpool Bay Seabed oring 1: KFB 26/2010	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Seafish	Removed										17.1		21.2	35.9	9	g	9	g	9	g	g	9	9	d	g	g
milton East	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Eni	Active										17.5		24.7	34.1	r	ſ	r	r	r	r	r	r	r	d	r	r
il Anchor 4	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Eni	Active										20.5		26.7	30.9	r	ſ	r	r	r	r	r	r	r	d	r	r
I Anchor 5	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Eni	Active										20.5		26.7	30.8	r	ſ	r	r	r	r	r	r	r	d	r	r
I Anchor 6	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Eni	Active										20.5		26.7	30.8	r	ſ	r	r	r	r	r	r	r	d	r	1
em at osi	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Eni	Active										21.7		27.9	31.8	r	ſ	r	r	r	r	r	r	r	d	r	1
I Anchor 3	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Eni	Active										22.3		28.6	33.0	1	r	t	r	t	r	r	r	r	d	,	,
Anchor 2	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Eni	Active										22.4		28.7	33.0	1	r	i	r	i	r	r	r	r	d	1	r
Anchor 7	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Eni	Active										22.4		28.4	31.8	1	r	i	r	i	r	r	r	r	d	1	r
Anchor 1	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Eni	Active										22.5		28.8	33.1	1	r	r	r	t.	r	r	r	r	d	,	1
Anchor 8	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Eni	Active										22.5		28.5	31.9	r	r	r	r	r	r	r	r	,	d	,	,
Anchor 9	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Eni	Active										22.6		28.6	32.0	1	r	r	r	r	r	r	r	r	d	,	r
oring with Scientific ipment Depth 20: KFB 010	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Proudman	Active										37.9		47.7	36.9	r	r	r	r	r	r	r	r	,	d	,	,
oring with Scientific pment Depth 36: KFB 010	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Proudman	Active										38.7		48.9	37.7	r	r	r	r	r	r	r	r	,	d	,	1

Project	Data Source(s)	Data Confidence	Notes	Status of	Construc	tion Period	(red outlin	ne denotes	Awel y Me	lôr offsho	ore constr	ruction	period)	8	Distance from the	Distance from the	Distance to the	al as	₽≱.	₽ ≥	£≥	si	e A	al s	7 5	15 g	5 <u>7</u> 6	2 8	828
ujeci	Data Source(s)	Assessment	NOTES	Development	202	2021	202	202	202	202	202	202	203	2030 - 2050	Distance from the Awel y Mor OWF array area (km)	Awel y Môr Offshore Export Cable Route (km)	Distance to the AyM Other Offshore Infrastructure Zone	Physic: Processe	Water an Sediment Qualit	Benthic an ntertidal Ecolog	Fish and Shellfis Ecolog	Marine Mammal	Offshor Omitholog	Commerci 8 Fisherie	Shipping an Navigatio	Military and Civ Aviatio	Seascape Landscape an Visua	Archaeology an Cultural Heritag	Other Marin Users an Activitie
looring with Scientific quipment Depth 33: KFB 4/2010	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Proudman	Active											39.0	48.8	38.0	r	r	r	r	r	r	r	r	r	d	r	r
ennox 16 SSBV	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Eni	Active											32.6	37.1	50.3	r	r	r	r	r	r	r	r	r	d	r	r
ennox 14 SSBV	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Eni	Active											32.6	37.1	50.3	1	r	r	r	r	r	r	r	r	d	r	,
iderwater Glider - KFB 2011	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	BP	Removed											32.6	39.6	46.4	9	g	g	g	g	g	g	g	g	d	g	g
nnox 12 SSBV	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Eni	Active											32.6	37.1	50.4	r	r	r	r	r	ŗ	i	r	r	d	r	,
ooring with Scientific uipment Depth 23: KFB /2010	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Proudman	Active											39.7	49.5	38.7	r	r	r	r	r	ſ	i	r	r	d	r	,
ost Tether 100M X 30MM	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		Active											34.5	40.2	41.1	r	r	r	r	r	ſ	i	r	r	d	r	,
ell 110/3-3	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Chrysaor	Not in Use											38.5	44.0	44.1	9	9	g	g	g	g	9	9	9	d	g	g
ins Well	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Chrysaor	Active											43.8	49.9	51.7	r	r	r	r	r	r	r	r	r	d	r	r.
ins Wellhead Protection ucture	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Spirit Energy	Active											43.8	49.9	51.7	ı	r	r	r	ſ	r	r	ſ	r	d	r	r
alton Well R2	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Chrysaor	Active											45.2	50.1	46.8	ı	r	r	r	ſ	r	r	ſ	r	d	r	r
alton Wellhead Protection ructure - R2	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Spirit Energy	Active											45.2	50.1	46.8	r	r	r	r	r	r	r	r	r	d	r	r.
opped Ladder 1.5M X CM KFB:19/2018	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Seafish	Active											46.0	52.8	57.5	1	r	r	r	r	r	r	r	r	d	r	r
alton Well R1	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Chrysaor	Active											46.0	51.0	47.7	1	r	r	r	r	r	r	r	r	d	r	r
alton Wellhead Protection ucture - R1	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Spirit Energy	Active											46.0	51.0	47.7	1	r	r	r	r	r	r	r	r	d	r	r
lton PLEM	Oil and Gas Authority		Spirit Energy	Active											46.0	51.0	47.7	r	r	r	r	r	r	r	r	r	d	r	,
lton PLEM Pipe and inifold	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Chrysaor	Active											46.0	51.0	47.7	r	r	r	r	r	r	r	r	r	d	r	,
II 110/2A-7	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Chrysaor	Not in Use											47.5	52.5	50.3	9	g	9	g	g	g	9	g	9	d	g	g
ith Morecambe OBS Well 110/2A-7	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Spirit Energy	Removed											47.5	52.5	50.3	9	9	g	g	g	g	g	9	9	d	g	g
II 110/2A-12	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Chrysaor	Not in Use											48.3	53.4	51.6	9	9	9	g	g	g	9	g	g	d	g	g
I NO 110/2A-12	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Spirit Energy	Not in Use											48.4	53.4	51.6	9	g	9	g	g	g	g	g	9	d	g	g
Iom East PLEM	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Chrysaor	Active											57.9	63.0	58.7	1	r	r	r	r	1	1	r	r	d	1	,

Per la at	Data Source(s)	Data Confidence	Neter	Status of	Construct	on Period (re	ed outline	e denotes A	wel y Mó	or offshore	e constru	iction p	eriod)	Distance		Distance from the	Distance to the	- *	7.5	7.5	<i>5</i> ×	s	0 >	= *	τc	= -		50	0.77.00
юјест	Data Source(s)	Assessment	NURES	Development	202(	2022	202:	202	2024	202	2021	202	203	Awel y	ce from the Mor OWF Irea (km)	Distance from the Awel y Mör Offshore Export Cable Route (km)	Distance to the AyM Other Offshore Infrastructure Zone	Physica Processe	Water and ediment Qualit	Benthic and Itertidal Ecolog	ish and Shellfis Ecolog	Aarine Mammal	Offshore Ornitholog	Commerci <i>e</i> Fisherie	Shipping an Navigatio	Military and Civ Aviation	Seascape Landscape an Visuz	Archaeology an Cultural Heritag	Other Marin Users and Activitie
tillom PLEM	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		Active										57.9		63.0	58.7	r	r	r	r	1	r	r	r	r	d	1	ı
Aillom Wellhead Protection tructure - Q1	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Spirit Energy	Active										58.0		63.0	58.7	r	r	r	r	r	r	r	r	r	d	r	r
1 Wellhead	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Chrysaor	Active										58.0		63.0	58.7	r	r	ı	r	r	,	r	ſ	r	d	r	r
illom Wellhead Protection ructure - Q2	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Spirit Energy	Active										58.0		63.1	58.8	ı	i	r	r	ſ	ı	r	ſ	r	d	r	r -
12 Wellhead	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Chrysaor	Active										58.0		63.1	58.8	r	i	r	r	r	ı	r	r	r	d	r	r
illom Wellhead Protection ructure - Q3	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Spirit Energy	Active										58.0		63.1	58.8	r	i	r	r	r	ı	r	r	r	d	r	r
23 Wellhead	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Chrysaor	Active										58.0		63.1	58.8	r	r	r	r	r	r	r	r	r	d	r	r
Vhitehaven Wellhead 13/278-K	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Spirit Energy	Precommission										63.5		68.4	65.0	9	9	9	g	g	9	9	g	g	d	g	9
hyl Subsea Well 2	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Spirit Energy	Active										65.0		69.9	66.9	ı	r	,	r	r	,	r	ſ	r	d	r	r
hyl Wellhead 113/27B-L	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Spirit Energy	Active										65.0		69.9	66.9	r	i	r	r	r	,	r	ſ	r	d	r	r.
hyl Subsea Well	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Spirit Energy	Active										65.0		69.9	66.9	ı	r	ı	r	r	,	r	ſ	r	d	r	r
thyl Subsea Well (North)	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Spirit Energy	Active										65.0		69.9	66.9	r	r	r	r	r	r	r	r	r	d	r	r
hyl North Wellhead 113/278	8 Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Spirit Energy	Active										65.0		69.9	66.9	r	r	r	r	r	r	r	r	r	d	r	r
luoy: KFB 13/2010	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Seafish	Removed										101.9		107.2	104.8	g	9	g	g	g	9	9	9	g	d	9	9
eabed Obstruction 2: KFB 5/2004	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		Active										107.9		120.4	107.1	r	r	r	r	r	r	r	r	r	d	r	r
wansea Bay 4 ADCP: KFB 3/2012 AREA 5	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	EMU Limited	Active										206.0		198.1	208.9	r	r	,	r	1	,	r	r	r	а	1	,
vansea Bay 3 ADCP: KFB V2012 AREA 5	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	EMU Limited	Active										207.6		199.8	210.4	r	r	,	r	r	,	r	r	r	d	,	,
vansea Bay 1 ADCP: KFB V2012 AREA 5	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		Active										208.3		200.8	211.0	r	r	,	r	r	,	r	r	r	d	,	,
vansea Bay 5 ADCP: KFB /2012 AREA 5	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	EMU Limited	Active										210.5		202.1	213.6	ı	r	r	r	r	r	r	r	r	d	r	r
/ansea Bay 2 ADCP: KFB /2012 AREA 5	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	EMU Limited	Active										211.1		203.5	213.8	1	r	r	r	r	1	r	r	r	d	r	r
e of Man	Oil and Car to that	Marlium - Third party pro11	Cas Notworks Indiana'	Activo										110.0		121.4	100.5												
e of Man Tee Piece	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'		Active													109.5	1	r	,	r	r	,	,	r	r	d	1	r
ee Protection Structure	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	Gas Networks Ireland	Active										110.0		121.4	109.5	r	r	r	r	r	r	r	ı	r	d	ı	'

					Constru	uction Pe	eriod (rec	outline	denotes A	wel y Mô	r offsho	re constr	uction	period)																
Project	Data Source(s)	Data Confidence Assessment	Notes	Status of Development	2020			2023		2026	2027	2028	2029	2030	50		Distance from the Awel y Môr Offshore Export Cable Route (km)	Distance to the AyM Other Offshore Infrastructure Zone	Physical Processes	Water and Sediment Quality	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammals	Offshore Ornithology	Commercial Fisheries	Shipping and Navigation	Military and Civil Aviation	Seascape, Landscape and Visual	Archaeology and Cultural Heritage	Other Marine Users and Activities
Seabed Obstruction: KFB 26/2006	Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	2	Active												110.0	121.4	109.5	r	r	r	r	r	r	r	r	r	d	r	ı
Seabed Obstruction 1: KFI 15/2004	8 Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	2	Active												116.6	129.1	115.8		r	r	r	r	r	r	r	r	d	r	r
Pipeline Spans 2M X16M > Long KFB: 15/2017	12 Oil and Gas Authority	Medium - Third party project details published in the public domain but not confirmed as being 'accurate'	2	Active												188.2	198.9	187.7		f	r	r	r	r	r	r	f	d	r	r

# Offshore Cumulative Effects Assessment Matrix - Shipping

# RWE

unine on one					Constru	ction Period	(red outline d	lenotes Av	wel y Môr offst	nore const	truction per	iod)															
Port	Data Source(s)	Data Confidence Assessment	Notes	Status of Development	2020	2021 2022	2023	2025	wel y Mor offst 9 2 2 0 2 0 2 0 2	2028	2029 2030	2030 - 2050	Distance from the Awel y Môr OWF array area (km)	Distance from the Awel y Mör Offshore Export Cable Route (km	<ul> <li>Distance to the AyM Other Offshore</li> <li>Infrastructure Zone</li> </ul>	Physical Processes	Water and Sediment Quality	Benthic and ntertidal Ecology	Fish and Shellfish Ecology	Marine Mammals	Offshore Omithology	Commercial Fisheries	Shipping and Navigation	Military and Civil Aviation	Seascape, Landscape and Visual	Archaeology and Cultural Heritage	Other Marine Users and Activities
United Kingdom																		_		-						<u> </u>	-
Liverpool Bay Terminal	World Ports Index	High - Third party project details published in the publ domain and confirmed as being 'accurate' by the developer.		Active									6.2	13.3	21.7	đ	d	d	d	d	d	d	d	d	d	d	d
Mostyn	World Ports Index	High - Third party project details published in the publ domain and confirmed as being 'accurate' by the developer.	ic	Active									30.0	12.3	41.9	f	r	ı	r	ı	ſ	f	f	r	d	r	f
Caernarvon	World Ports Index	High - Third party project details published in the publ domain and confirmed as being 'accurate' by the developer.	ic	Active									42.6	46.0	42.3	£	r	r	ſ	r	ſ	r	r	r	4	t	r
Liverpool	World Ports Index	High - Third party project details published in the publ domain and confirmed as being 'accurate' by the developer.	ic	Active									41.4	31.3	57.2	ſ	ſ	ſ	f	ſ	ſ	r	r	r	4	r	ſ
Holyhead	World Ports Index	High - Third party project details published in the publ domain and confirmed as being 'accurate' by the developer.	ic	Active									53.4	60.2	52.6	ſ	ı	,	f	1	f	ſ	ı	r	f	r	,
Gariston	World Ports Index	High - Third party project details published in the publ domain and confirmed as being 'accurate' by the developer.	ic	Active									49.7	36.6	64.7	1	ſ	1	1	1	f	r	r	1	d	۱	r
Fleetwood	World Ports Index	High - Third party project details published in the publ domain and confirmed as being 'accurate' by the developer.	ic	Active									61.5	68.6	74.5	ſ	r	1	ſ	r	ſ	f	r	r	d	f	r.
Barrow-In-Furness	World Ports Index	High - Third party project details published in the publ domain and confirmed as being 'accurate' by the developer.	ic	Active									73.9	80.4	82.8	r	ſ	ſ	f	r.	ſ	f	r	r	4	r	r
Heysham	World Ports Index	High - Third party project details published in the publ domain and confirmed as being 'accurate' by the developer.		Active									75.74	82.79	88.18	r	ı	ı	r	ı	f	r	ı	r	d	r	r.
Douglas	World Ports Index	High - Third party project details published in the publ domain and confirmed as being 'accurate' by the developer.		Active									83.8	93.7	85.4	t	r	r	ſ	r	r	r	r	r	d	r	r.
Lanchaster	World Ports Index	High - Third party project details published in the publ domain and confirmed as being 'accurate' by the developer.		Active									82.7	89.7	95.8	t	r	r	ſ	r	ſ	r	r	r	4	r	r.
Manchester	World Ports Index	High - Third party project details published in the publ domain and confirmed as being 'accurate' by the developer.	ic	Active									89.2	80.4	105.7	ſ	ſ	ſ	r	ſ	ſ	r	r	r	d	r	¢
Ramsey	World Ports Index	High - Third party project details published in the publ domain and confirmed as being 'accurate' by the developer.		Active									98.0	106.7	99.8	ſ	r	1	ſ	r	ſ	r	r	r	d	f	,
Workington	World Ports Index	High - Third party project details published in the publ domain and confirmed as being 'accurate' by the developer.		Active									119.7	124.7	122.8	ſ	r	ı	ſ	r	ſ	r	r	r	d	f	ſ
Ardglass	World Ports Index	High - Third party project details published in the publ domain and confirmed as being 'accurate' by the developer.	ic	Active									144.4	154.9	145.5	t	r	ı	r	r	ſ	r	r	r	4	r	1
Kilkeel	World Ports Index	High - Third party project details published in the publ domain and confirmed as being 'accurate' by the developer.	ic	Active									153.3	163.3	153.7	ſ	r	r	1	r	f	r	r	r	4	r	,
Silloth	World Ports Index	High - Third party project details published in the publ domain and confirmed as being 'accurate' by the developer.		Active									153.7	159.2	158.1	1	r	1	1	1	r	r	r	1	d	,	1
Warren Point	World Ports Index	High - Third party project details published in the publ domain and confirmed as being 'accurate' by the developer.	ic	Active									171.5	181.5	171.9	r	r	,	1	r	f	r	r	r	4	r	1

					Constru	ction Peri	od (red ou	tline deno	otes Awe	el y Môr offsi	hore con	struction p	eriod)					_	_		_				_			
Port	Data Source(s)	Data Confidence Assessment	Notes	Status of Development	2020	2021	2023	2024	2025	el y Mor offsi 2038 2037 2037	2028	2029	2030 2030 - 2050	Distance from th Awel y Môr OWF array area (km)	Offshore Export	Distance to the AyM Other Offshore Infrastructure Zone	Physical Processes	Water and Sediment Quality	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammals	Offshore Ornithology	Commercial Fisheries	Ship ping and Navigation	Military and Civil Aviation	Seascape, Landscape and Visual	Archaeology and Cultural Heritage	Other Marine Users and Activities
Bangor	World Ports Index	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.		Active										175.2	185.8	176.6	f	ı	ſ	f	ſ	r	f	r	f	d	ſ	r
Stranraer	World Ports Index	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.		Active										174.8	184.1	176.4	f	ı	ſ	ſ	r	r	ſ	r	ſ	d	r	1
Fishguard	World Ports Index	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.		Active										176.1	177.2	176.0	f	ı	ſ	ſ	ſ	r	ſ	r	r	d	1	1
Belfast	World Ports Index	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.		Active										183.3	193.9	184.6	f	ı	ſ	ſ	ŗ	r	ſ	r	ſ	d	r	1
Kiiroot	World Ports Index	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.		Active										184.2	194.8	185.6	f	ı	ſ	ſ	r	r	ſ	r	ſ	d	r	ı
Larne	World Ports Index	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.		Active										197.5	208.0	199.0	f	ı	ſ	ſ	ſ	r	ſ	r	r	d	1	r
Neath	World Ports Index	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.		Active										199.0	190.6	201.6	£	r	ſ	r	f	r	ſ	r	r	d	f	r
Swansea	World Ports Index	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.		Active										201.3	193.6	203.5	f	ı	ſ	ſ	ſ	r	ſ	r	ſ	d	1	r.
Port Talbot	World Ports Index	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.		Active										204.5	195.9	207.1	f	ı	ſ	ſ	ſ	r	ſ	r	r	d	1	r
Milford Haven	World Ports Index	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.		Active										208.1	207.9	208.0	f	ı	ſ	ſ	ſ	ı	ſ	r	r	d	1	r
Sharpness	World Ports Index	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.		Active										208.1	191.3	213.7	f	ı	ſ	ſ	r	r	f	r	ſ	d	r	r
Bird Port	World Ports Index	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.		Active										213.0	199.1	217.6	f	ı	ſ	ſ	r	ı	f	r	ſ	d	r	r
Newport	World Ports Index	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.		Active										214.5	200.7	219.0	f	r	ſ	r	f	r	ſ	f	r	d	r	r
Republic of Ireland	Wedd Dede Iedau	High Third party project		A set is										450.4		450.4												
Dublin	World Ports Index	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.		Active										159.4	166.8	158.4	f	ı	ſ	f	ſ	r	f	r	f	d	r	r
Greenore	World Ports Index	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.		Active										161.7	171.6	162.0	f	r	ſ	ſ	r	r	f	r	ſ	d	r	r
Drogheda	World Ports Index	High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer.		Active										163.5	172.3	163.1	f	r	ſ	f	r	r	f	r	ſ	d	r	r

Offshore Cumulative Effects Assessment Matrix - Military, Aviation and Radar

### RWE Distance from the Awel y Mor OWF Awel y Mor OWF Array area (km) Offshore Export Cable Route (km) Data Confidence Assessment Status of Development ata Source(s Notes 2050 Seascape. Landscape and Visual Other Marine Users and Activities Shipping and Navigation Water and tent Quality ary and Civi Avlation and Shellfis Ecolog Offshor Omitholog Benthic an tertidal Ecoloç Archaeology a Cultura Heritae Commerc Fisheri 030 United Kingdom Aberporth firing range MoD High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer. Operational 83.2 72.9 High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer. Castlemartin firing range MoD N/A Operational 215.3 214 214.8 The Navel Bases home to the Boyai Navy's variation fines and submarine service anr HMNB Cryde (Fastane), HMNB Devonport and HMMB Fortwards. They offer support to her base ships in the support to her base ships in the distribution of the ships of the support of the ships in the support of her base ships in the support of the ships of o High - Third party project details published in the public domain and confirmed as being 'accurate' by the developer. UK Military Bases Royal Navy Data

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### Offshore Cumulative Effects Assessment Matrix - Coastal

AWEL MOTOR	ÔR				Cumulative									-													R1	NE
Project	Data Source(s)	Data Confidence Assessment	Notes	Status of Development	tion Period ( 1707 02	red outlin 80 00	e denotes 502 202 202	Awel y	/ Mor offsh 202 202	iore consi 87 07	struction   67 07	period) 0% 07	2030 - 2050	Distance from the Awel y Mor OWF array area (km)	Distance from the Awel y Mör Offshore Export Cable Route (km)	Distance to the AyM Other Offshore Infrastructure Zone	Physical Processes	Water and Sediment Quality	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammals	Offshore Omithology	Commercial Fisheries	Shipping and Navigation	Military and Civil Aviation	Seascape, Landscape and Visual	Archaeology and Cultural Heritage	Other Marine Users and Activities
United Kingdom MTF_INDUSTRIAL23044	Environment Agency	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Crown Estate	Outfall pipe	Active										10.1	9.6	16.1	r	r	ь	r	r	ſ	r	r	r	d	r	r
MTF_INDUSTRIAL23045	Environment Agency	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Crown Estate	Outfall pipe	Active										11.2	10.8	16.6	r	r	ь	ı	r	ſ	ſ	ſ	ſ	d	r	,
MTF_INDUSTRIAL:28542	Environment Agency	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Crown Estate	Outfall pipe	Active										12.7	13.0	14.1	r	r	r	r	r	ſ	r	r	r	d	r	r
MTF_INDUSTRIAL22122	Environment Agency	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Crown Estate	Outfall pipe	Active										13.0	13.5	13.5	r	r	r	r	r	r	r	r	r	d	r	r
MTF_INDUSTRIAL23052	Environment Agency	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Crown Estate	Outfall pipe	Active										13.4	12.1	19.6	r	r	r	r	r	r	r	r	r	d	r	f
MTF_INDUSTRIAL 28229	Environment Agency	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Crown Estate	Outfall pipe	Active										14.4	2.3	24.5	r	Þ	r	r	r	r	ſ	r	ſ	d	r	r
MTF_INDUSTRIAL23048	Environment Agency	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Crown Estate	Outfall pipe	Active										14.4	11.3	21.4	r	r	r	r	r	r	ſ	r	ſ	d	r	r
MTF_INDUSTRIAL 20695	Environment Agency	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Crown Estate		Active										15.5	15.5	18.3	r	r	r	ı	ſ	ſ	ſ	ſ	1	d	1	r
MTF_INDUSTRIAL22189	Environment Agency	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Crown Estate		Active										15.5	8.9	23.6	r	r	r	ı	r	r	ŗ	ŗ	r	d	ı	
MTF_INDUSTRIAL 28548	Environment Agency	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Crown Estate	Outfall pipe	Active										17.5	18.4	17.9	r	r	r	ı	r	r	ŗ	ŗ	r	d	ı	
MTF_INDUSTRIAL 98652	Environment Agency	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Crown Estate		Active										17.5	5.9	26.5	r	b	r	ı	r	ſ	i	r	r	d	r	r
MTF_INDUSTRIAL28546	Environment Agency	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Crown Estate	Outfall pipe	Active										17.7	18.4	18.4	r	r	r	ı	ſ	I	ſ	ſ	ſ	d	r	
MTF_INDUSTRIAL 28225	Environment Agency	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Crown Estate	Outfall pipe	Active										17.8	3.7	27.8	r	b	r	r	r	ſ	ţ	r	r	d	1	r
MTF_INDUSTRIAL 28543	Environment Agency	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Crown Estate		Active										18.0	18.6	18.7	r	r	r	r	r	ſ	r	r	r	d	ı	r
MTF_INDUSTRIAL_28227	Environment Agency	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Crown Estate	Outfall pipe	Active										18.8	3.0	29.3	r	Ь	r	ı	ſ	r	ſ	r	ſ	d	1	1
MTF_INDUSTRIAL28541	Environment Agency	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Crown Estate	Outfall pipe	Active										19.0	19.8	19.5	r	r	r	ı	ſ	r	ſ	r	ſ	d	1	1
MTF_INDUSTRIAL28226	Environment Agency	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Crown Estate	Outfall pipe	Active										20.7	4.7	34.6	r	ь	r	ſ	ſ	ſ	ſ	ſ	ſ	d	r	1

De-le -l		Data Candida	Al-1	flature of	Construction	Period (red ou 2023 202	tline denote	es Awel y I	Mör offshore	e constru	uction period)	-	Distances	Distance	Distances to the	= *			<u>د م</u>	<u>ه</u>		=	<b>n</b> -	=		<b>D</b> 0	07.0
Project	Data Source(s)	Data Confidence Assessment	Notes	Status of Development	2020 2021	2022	2024	2025	2027	2028	2029 2030	2030 - 2050	Distance from the Awel y Môr OWF array area (km)	Distance from the Awel y Môr Offshore Export Cable Route (km)	Distance to the AyM Other Offshore Infrastructure Zone	Physical Processes	Water and Sediment Quality	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammal:	Offshore	Commercial Fisheries	Shipping and Navigation	Military and Civi Aviation	Seascape Landscape anc Visual	Archaeology anc Cultural Heritage	Other Marine Users and Activities
MTF_INDUSTRIAL.28544	Environment Agency	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Crown Estate		Active									21.5	25.7	21.2	r	r	r	r	r	r	r	r	r	đ	r	ſ
MTF_INDUSTRIAL 28881	Environment Agency	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Crown Estate	Outfall pipe	Active									21.5	25.9	21.3	r	r	r	r	ı	r	i	r	r	d	r	1
MTF_INDUSTRIAL.28234	Environment Agency	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Crown Estate	Outfall pipe	Active									21.6	26.0	21.3	ſ	r	r	r	r	r	r	r	r	d	r	ſ
MTF_INDUSTRIAL 28547	Environment Agency	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Crown Estate	Outfall pipe	Active									21.7	23.9	21.7	r	r	r	r	r	r	r	r	r	d	r	r
MTF_INDUSTRIAL.28877	Environment Agency	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Crown Estate	Outfall pipe	Active									23.4	27.5	23.1	f	r	r	r	r	ı	i	r	r	d	r	1
MTF_INDUSTRIAL.28880	Environment Agency	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Crown Estate	Outfall pipe	Active									24.5	28.5	24.3	r	r	r	r	r	r	r	r	r	d	r	r
MTF_INDUSTRIAL.28883	Environment Agency	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Crown Estate	Outfall pipe	Active									24.6	31.6	23.8	f	r	r	r	r	r	r	r	r	d	r	1
MTF_INDUSTRIAL.28876	Environment Agency	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Crown Estate	Outfall pipe	Active									24.7	28.6	24.4	f	r	r	r	r	r	r	r	r	d	r	1
MTF_INDUSTRIAL.28230	Environment Agency	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Crown Estate		Active									26.0	32.9	25.2	f	ſ	r	r	r	r	t	r	ſ	d	r	r
MTF_INDUSTRIAL.28233	Environment Agency	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Crown Estate		Active									28.2	32.1	27.9	r	r	r	r	r	r	r	r	r	d	r	r
MTF_INDUSTRIAL.22500	Environment Agency	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Crown Estate	Outfall pipe	Active									28.9	21.8	46.8	r	r	r	r	r	r	r	r	r	d	r	r
MTF_INDUSTRIAL.28884	Environment Agency	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Crown Estate	Outfall pipe	Active									29.0	33.2	28.7	r	r	r	r	r	r	r	r	r	d	r	r
MTF_INDUSTRIAL.28879	Environment Agency	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Crown Estate		Active									29.2	33.3	28.9	r	r	r	r	r	r	r	r	r	d	r	r
MTF_INDUSTRIAL.28878	Environment Agency	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Crown Estate	Outfall pipe	Active									29.4	33.6	29.0	r	r	r	r	r	r	r	r	r	d	r	r
MTF_INDUSTRIAL.28882	Environment Agency	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Crown Estate		Active									29.5	33.6	29.2	r	r	r	r	r	1	ſ	r	ſ	d	r	ſ
MTF_INDUSTRIAL.28224	Environment Agency	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Crown Estate		Active									30.7	17.5	46.9	f	r	r	r	r	ſ	ı	r	r	d	r	1
MTF_INDUSTRIAL.28228	Environment Agency	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Crown Estate	Outfall pipe	Active									30.9	17.7	47.1	r	r	r	r	r	ſ	r	r	ſ	d	r	1
MTF_INDUSTRIAL21385	Environment Agency	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Crown Estate	Outfall pipe	Active									30.9	35.0	30.5	f	r	r	r	r	ı	ı	r	r	d	1	r

				a	Construction P	eriod (red out	ine denotes	Awel y M	lör offshore	constru	uction pe	riod)		a						s		- ~				71.0	
Project	Data Source(s)	Data Confidence Assessment	Notes	Status of Development	2020	2022 2023	2024	2026	2027	2028	2029	2030 2030 - 2050	Distance from th Awel y Mor OWF array area (km)	e Distance from the Awel y Môr Offshore Export Cable Route (km)	Distance to the AyM Other Offshore Infrastructure Zone	Physical Processes	Water and Sediment Quality	Benthic and ntertidal Ecology	Fish and Shellfish Ecology	Marine Mammals	Offshore Ornithology	Commercial Fisheries	Shipping and Navigation	Military and Civi Aviation	Seascape Landscape and Visual	Archaeology anc Cultural Heritage	Other Marine Users and Activities
MTF_INDUSTRIAL.21384	Environment Agency	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Crown Estate	Outfall pipe	Active									31.5	35.8	31.1	r	r	r	r	,	ſ	r	r	r	d	r	
MTF_INDUSTRIAL.21383	Environment Agency	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Crown Estate	Outfall pipe	Active									31.6	35.9	31.2	r	r	ſ	r	ſ	r	r	r	r	d	r	r
MTF_INDUSTRIAL.21386	Environment Agency	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Crown Estate	Outfall pipe	Active									33.2	37.6	32.8	t	r	r	r	r	ſ	r	r	r	d	r	
MTF_INDUSTRIAL.22498	Environment Agency	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Crown Estate	Outfall pipe	Active									35.9	31.2	54.5	r	r	r	r	r	ſ	r	r	r	d	r	
MTF_INDUSTRIAL.22499	Environment Agency	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Crown Estate	Outfall pipe	Active									36.1	31.6	54.7	r	r	r	r	r	ſ	r	r	r	d	r	
MTF_INDUSTRIAL.23222	Environment Agency	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Crown Estate		Active									36.2	31.6	54.8	ı	r	ſ	r	r	1	r	r	r	d	r	'
MTF_INDUSTRIAL.22496	Environment Agency	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Crown Estate	Outfall pipe	Active									36.3	32.1	55.0	ı	r	ſ	r	r	ſ	r	r	r	d	r	
MTF_INDUSTRIAL.23149	Environment Agency	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Crown Estate	Outfall pipe	Active									36.4	32.8	55.1	ı	r	ſ	r	r	ſ	r	r	r	d	r	
MTF_INDUSTRIAL.23153	Environment Agency	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Crown Estate	Outfall pipe	Active									37.1	30.9	55.5	r	r	ſ	r	r	r	r	r	r	d	ſ	'
MTF_INDUSTRIAL.23148	Environment Agency	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Crown Estate	Outfall pipe	Active									37.4	30.7	55.7	ı	r	r	r	ı	ſ	r	r	r	d	r	,
MTF_INDUSTRIAL.22497	Environment Agency	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Crown Estate	Outfall pipe	Active									37.5	30.9	55.9	r	r	ſ	r	r	ſ	r	r	r	d	r	,
MTF_INDUSTRIAL.21366	Environment Agency	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Crown Estate	Outfall pipe	Active									38.2	29.8	56.2	r	r	ſ	r	r	ſ	r	r	r	d	r	,
MTF_INDUSTRIAL.20701	Environment Agency	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Crown Estate	Outfall pipe	Active									38.2	29.8	56.2	r	r	ſ	r	ı	r	r	r	r	d	ſ	'
MTF_INDUSTRIAL.20818	Environment Agency	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Crown Estate	Outfall pipe	Active									38.5	29.9	56.4	t	r	r	r	r	r	r	r	r	d	r	r
MTF_INDUSTRIAL.28610	Environment Agency	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Crown Estate		Active									39.6	43.9	39.2	r	r	ſ	r	r	r	r	r	r	d	r	'
MTF_INDUSTRIAL.20698	Environment Agency	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Crown Estate		Active									39.7	29.9	57.4	r	r	ſ	r	r	1	r	r	r	d	ſ	'
MTF_INDUSTRIAL.20706	Environment Agency	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Crown Estate	Outfall pipe	Active									39.9	30.0	57.5	r	r	ſ	r	r	r	r	r	r	d	ſ	r
MTF_INDUSTRIAL.20826	Environment Agency	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Crown Estate	Outfall pipe	Active									40.1	30.0	57.7	r	r	ſ	r	r	1	r	r	r	d	r	r

					Construction P	eriod (red out	ine denotes	Awel y N	lör offshore	constru	uction pe	rlod)		51.	51.					ø			76.				
Project	Data Source(s)	Data Confidence Assessment	Notes	Status of Development	2020 2021	2022	2024	2026	2027	2028	2029	2030 2030 - 2050	Distance from th Awel y Môr OWI array area (km)	e Distance from the Awel y Mör Offshore Export Cable Route (km)	Distance to the AyM Other Offshore Infrastructure Zone	Physical Processes	Water and Sediment Quality	Benthic and nertidal Ecology	Fish and Shellfish Ecology	Marine Mammals	Offshore Ornithology	Commercial Fisheries	Shipping and Navigation	Military and Civil Aviation	Seascape Landsca pe anc Visual	Archaeology anc Cultural Heritage	Other Marine Users and Activities
MTF_INDUSTRIAL.21375	Environment Agency	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Crown Estate	Outfall pipe	Active									40.4	30.1	57.9	t	r	r	r	,	r	r	r	r	d	r	
MTF_INDUSTRIAL.115467	Environment Agency	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Crown Estate	Outfall pipe	Active									40.4	30.9	58.2	ſ	r	r	r	ſ	r	r	r	r	d	r	,
MTF_INDUSTRIAL.21382	Environment Agency	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Crown Estate	Outfall pipe	Active									40.6	30.1	58.0	f	r	r	r	r	r	ſ	r	r	d	r	
MTF_INDUSTRIAL98650	Environment Agency	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Crown Estate	Outfall pipe	Active									41.1	30.1	58.5	ſ	r	r	r	r	r	r	r	r	d	r	
MTF_INDUSTRIAL.21381	Environment Agency	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Crown Estate	Outfall pipe	Active									42.2	30.1	59.2	ſ	r	r	r	r	r	r	r	r	d	r	
MTF_INDUSTRIAL.21367	Environment Agency	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Crown Estate	Outfall pipe	Active									42.3	30.3	59.4	1	r	ſ	r	r	r	ſ	r	ſ	d	ſ	'
MTF_INDUSTRIAL.20817	Environment Agency	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Crown Estate	Outfall pipe	Active									42.6	30.2	59.5	ſ	r	ſ	r	r	r	ſ	r	ſ	d	r	
MTF_INDUSTRIAL.23300	Environment Agency	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Crown Estate	Outfall pipe	Active									42.8	44.9	60.8	ſ	r	ſ	r	r	r	ſ	r	ſ	d	r	
MTF_INDUSTRIAL.23175	Environment Agency	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Crown Estate	Outfall pipe	Active									47.6	56.0	46.6	t	r	r	r	r	r	ſ	r	r	d	r	,
MTF_INDUSTRIAL.23296	Environment Agency	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Crown Estate	Outfall pipe	Active									47.7	52.2	64.6	t	r	r	r	ı	r	ſ	r	r	d	r	,
MTF_INDUSTRIAL.23177	Environment Agency	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Crown Estate	Outfall pipe	Active									48.1	56.5	47.1	ţ	r	ſ	r	r	r	ſ	r	ŗ	d	r	,
MTF_INDUSTRIAL.23176	Environment Agency	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Crown Estate	Outfall pipe	Active									48.1	56.5	47.1	t	r	r	r	ı	r	ſ	r	r	d	r	,
MTF_INDUSTRIAL.98653	Environment Agency	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Crown Estate	Outfall pipe	Active									48.2	56.1	47.2	r	r	ſ	r	ı	r	ſ	r	r	d	ſ	'
MTF_INDUSTRIAL.23299	Environment Agency	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Crown Estate	Outfall pipe	Active									48.5	54.9	64.1	r	r	ſ	r	r	r	ſ	r	ſ	d	r	'
MTF_INDUSTRIAL.22443	Environment Agency	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Crown Estate	Outfall pipe	Active									49.3	56.2	48.5	r	r	ſ	r	r	r	ſ	r	r	d	r	'
MTF_INDUSTRIAL.23304	Environment Agency	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Crown Estate		Active									50.1	56.8	65.3	ſ	r	ſ	r	r	r	1	r	r	d	ſ	'
MTF_INDUSTRIAL.113816	Environment Agency	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Crown Estate	Outfall pipe	Active									50.6	58.8	49.6	r	r	ſ	r	r	r	ſ	r	ſ	d	ſ	r
MTF_INDUSTRIAL.23167	Environment Agency	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Crown Estate	Outfall pipe	Active									50.9	59.2	49.9	ſ	r	ſ	r	r	r	ſ	r	ſ	d	r	r

Project	Data Source(s)	Data Confidence Assessment	Notes	Status of Development	Constructic 0202		notes Awe		502 502	(boin 30 30	2030 - 2050	Distance from the Awel y Mor OWF array area (km)	Awel y Môr	AyM Other Offshore Infrastructure Zone	Physical Processes	Water and Sediment Quality	Benthic and Intertidal Ecology	Fish and Shellfish Ecology	Marine Mammals	Offshore Ornithology	Commercial Fisheries	Shipping and Navigation	Military and Civil Aviation	Seascape, Landscape and Visual	Archaeology and Cultural Heritage	Other Marine Users and Activities
MTF_INDUSTRIAL.20680	Environment Agency	High - Third party project details published in the public domain and confirmed as being 'accurate' by the Crown Estate	Outfall pipe	Active								51.0	59.3	50.0	f	r	r	r	f	r	r	r	r	d	r	r

### Cumulative Effects Assessment Matrix - Onshore

# RWE

				I	Constructio	n Period (r	red outlin	e denotes A	wel y Mô	offshore c	onstruction pe	iod)													
Project/Planning Application	Data Source(s)	Data Confidence Assessment	Notes	Date of Application and Status of Development	2020 2021	2022	2023	2024 2025	2026	2027 2028	2029	2030 - 2050	Distance to ES ECC (km)	Distance to ES Draft Order Limits (km)	Terrestrial Ecology and Nature Conservation	Archaeology and Cultural Heritage	Irborne Nolse and Vibration	Transport	Air Quality	Hydrology. Hydrogeolog y Ind Flood Risk	Geology and Ground Conditions	ndscape and fisual Impa cfs	cioeconomic \$	Tourism and Recreation	Public Health
45/2021/1248 Development of 5 Ha of land to form Coastal Defence scheme comprising of the formation of flood embankments ramps outfall structures and rock armour including landscaping habitat enhancements works	Denbighshire CC Planning Portal	High	Coastal protection works	2021, pending decision									0.469425	0.0			4			1.0		97	8		
40/2018/1036 - Construction of a 5 MW flexible gas fired power plant	Denbighshire CC Planning Portal	High	Other energy generation Infrastructure	2018, granted									9.1	0.0	c	c	c	c	d	d	c	c	c	c	4
incorporating; interlocking rock revetment and recurved upstand sea wall to replace existing, raising of walkway, new and amended accesses and associated works (East Rhyl coastal defence improvement	Denbighshire Consultation Response	High	Building/housing developments	2019, Granted									0.420879	0.1											
scheme). 40/2021/0309 - Care home	Denbighshire CC Planning Portal	High	Building/housing developments	2021, Granted									7.9	0.1	r	f	ſ	c	f	f	c	f	r	ſ	
parking, landscaping, access road and external storage areas.	Denbighshire Consultation Response	High	Building/housing developments	2018, Granted									8.405236	0.1											
of 6 % a diard incorporating the Hybrid paring application (full details and cultine) for the indevelopment of 6 % a of land incorporating the following elements: I details of a commercial vehicles sole unit (ful genesit) - formation of associated parking area, inindicating and associated volts: Outline Remaining application for the erection of \$ No. business building (fue Class 81 and 82) with all other matters reserved for fultime Remaining application for the erection of \$ No. business building (fue Class 81 and 82) with all other matters reserved for fultime Reprovide	Denbighshire Consultation Response	High	Building/housing developments	2021, pending decision									8.756512	0.2											
caravan pitches and 39 timber camping pods, storage building and associated works.	Denbighshire Consultation Response	High	Building/housing developments	2018, Granted									1.108652	0.2											
45/2018/1215 - Erection of 109 dwellings and associated works (Phase 5).	Denbighshire Consultation Response	High	Building/housing developments	2021, Granted									1.885683	0.3											
45/2021/0738 - Retrospective application for the change of use of dwelling (Use Class C3) to form a house of multiple occupancy (Use Class C4) for 4 people.	Denbighshire Consultation Response	High	Building/housing developments	2021, pending decision									1.654037	0.4											
proposed Central Rhyl Coastal Defence Scheme.	Denbighshire Consultation Response	High	Coastal protection works	2021, Screening Opinion issued									0.626787	0.4											
and scale of 99 dwellings submitted in accordance with condition number 1 of outline permission code 44/2015/1075 (reserved matters application).	Denbighshire Consultation Response	High	Building/housing developments	2019, Granted									3.958555	0.4											
	Denbighshire Consultation Response PINS	High	Other energy generation infrastructure	2021, pending decision									7.09827	0.7											
vehicular access and associated works.	Denbighshire Consultation Response	High	Building/housing developments	2021, pending decision									4.837618	0.8											
to existing touring caravan site; siting of 3 no. glamping pods and camping facilities; construction of toilet, shower and laundry blocks and associated works.	Denbighshire Consultation Response	High	Building/housing developments	2020, Granted									1.655245	0.8											
43/2020/07/73 - Election of 35 no. Gwellings and associated works.	Denbighshire Consultation Response	ngn	Building/housing developments	2020, pending decision									1.033245	0.9											
	Denbighshire CC Planning Portal	Medium	Building/housing developments	2018									2.8	0.9	d	d	d	d	d	d	d	d	d	d	d
	Denbighshire CC Planning Portal	High	Building/housing developments	2018, granted									3.6	0.9	d	d		c	d	d	d	d	d	d	d
hospital including the erection of a four storey community hospital.	Denbighshire Consultation Response	High	Building/housing developments	2020, Granted									1.169567	1.0											
40/2021/0796 - Erection of a detached storage building.	Denbighshire Consultation Response	High	Building/housing developments	2021, Granted									8.09201	1.1											
playgroup, nursery, primary and secondary places with associated play space, grass pitch, all weather pitch.	Denbighshire Consultation Response	High	Building/housing developments	2018, Granted									2.172563	1.1											
purposes (outline application including access).	Denbighshire Consultation Response	High	Building/housing developments	2019, pending decision									7.975204	1.2											
43/2019/0730 - 41 dwellings	Denbighshire CC Planning Portal	High	Building/housing developments	2019, granted									3.2	1.2	d	d		c	d	d	d	d	d	d	d
attraction including the installation of concrete platform, mounting winch and associated Skyflyer Balloon and basket, siting of toilet and reception buildings, landscaping and associated works.	Denbighshire Consultation Response	High	Building/housing developments	2021, Granted									1.353497	12											
contained apartments, including demolition of extension to rear, erection of car port and sprinkler tank compound, landscaping and associated works.	Denbighshire Consultation Response	High	Building/housing developments	2021, Granted									1.522238	12											
roads, open space, landscaping and infrastructure (re-submission of planning application 44/2019/0629).	Denbighshire Consultation Response	High	Building/housing developments	2020, pending decision									1.927921	1.3											
45/2020/0096 - Change of use and alterations to former offices to form a 61 bed, 6 ward hospital for residential nursing and health care.	Denbighshire Consultation Response	High	Building/housing developments	2020, Granted									1.621673	1.3											

	<b>a</b> . <b>a</b> ()			<b>a</b>	Construc	tion Perioc	I (red outi	ine deno	tes Awel y	/ Mör offsl	hore con	nstruction p	eriod)					2 - 0						73.00			-
Project/Planning Application	Data Source(s)	Data Confidence Assessment	Notes	Date of Application and Status of Development	2020	2021	2023	2024	2025 2026	2027	2028	2029	2030	DS07 - 0507	stance to ES ECC m)	Distance to ES Draft Order Limits (km)	Terrestrial Ecology and Nature Conservation	Archaeology and Cultura Heritage	irb orne Noise and Vibration	Traffic and Transport	Air Quailty	Hydrology fydrogeolog) ind Flood Rish	Geology and Ground Conditions	indscape and fisual Impacts	cioeconomic	Tourism and Recreation	Public Health
45/2018/0822 - Construction of 41 housing association apartments	Denbighshire	1.5 mb	Building/housing	2018, Granted											192233	1.0	-		< "			Ξē	-	La V	So		4
for local residents over 55 years of age together with new and altered vehicular and pedestrian accesses, associated parking provision, and related work	Consultation Response	High	developments													1.3											
45/2021/0187 - Change of use of land and erection of a Further Education Engineering Centre building, formation of a new vehicular access, construction of an internal site access road and car park, together with landscaping and associated works.	Consultation Response	High	Building/housing developments	2021, Granted										2.8	197721	1.4											
43/2020/0023 - Erection of a retail store with garden centre, servicing and car parking areas and associated works.	Denbighshire Consultation Response	High	Building/housing developments	2020, Granted										2.7	966	1.4											
45/2018/0263 - Demolition of existing building and redevelopment of land by the erection of 18 apartments and associated works.	Denbighshire Consultation Response	High	Building/housing developments	2019, Granted										2.2	131314	1.5											
40/2021/0730 - Demolition of dwelling and erection of 28 new dwellings including new vehicular access, internal access road and associated works.	Denbighshire Consultation Response	High	Building/housing developments	2021, pending decision										7.5	3746	1.7											
45/2020/0858 - Conversion and alterations to hotel to form 10 no. self-contained apartments.	Denbighshire Consultation Response	High	Building/housing developments	2020, pending decision										1.8	126821	1.7											-
43/2018/0900 -15 unit apartment block	Denbighshire CC	High	Building/housing	2018, granted										3.0	)	1.7	d	d	c	c	d	d	d	d	d	d	d
43/2020/0843 - Demolition of former library building, erection of a	Planning Portal Denbighshire	High	developments Building/housing	2021, Granted							-			3.1	17964	1.7											-
new three and half storey building to contain 2 no. commercial units at ground floor and 14 no. one- bedroom residential apartments on the upper floors and associated works.	Consultation Response		developments																								
45/2021/2040 - hybrid flamming application (Full details and outline) for the redevelopment of 0.91% of land known as Queens Market, incorporating the following elements: Full Details: - Demotilion of the hight Spot building on the corner of West Parad and High Street - Demotilion 0/2 6 High Street	e Denbighshire Consultation Response	High	Building/housing developments	2021, Granted										2.0	151627	1.9											
46/2021/1161 Erection of 124 dwellings	Denblahshire CC	High	Building/housing	2021, Pending			_				_			9.0	77816	21						-					
45/2020/0865 - Demolition of existing dwellings, erection of 13 no.	Planning Portal Denblohshire	High	developments Building/housing	decision 2021, Granted											105777	2.2											
dwellings and associated works. 0/48678 Erection of 11kv pole and overhead line	Consultation Response	High	developments National Grid enabling works	2021.										11	.833164	25											<u> </u>
	5	ngn		Approved												2.0											
31/2021/0724 11kv Overhead Line, supported by an existing 11kv Pole & Stay. The proposed 11kv Overhead line will replace an existing 11kv Overhead line approx 100m to the west	Denbighshire CC Planning Portal	High	National Grid enabling works	2021 , Approved										11.	.874298	2.5											
45/2018/0123 - Erection of a retail unit with associated parking, access, servicing and landscaping.	Denbighshire Consultation Response	High	Building/housing developments	2018, Granted											149368	2.5											
43/2014/0356 - Development of 2.4 hectares of land for residential development (outline application - all matters reserved) (resubmission of previously refused application under Code No. 43/2014/166/PO).	Denbighshire Consultation Response	High	Building/housing developments	2016, pending decision										4.1	49741	2.7											
43/2017/0848 Erection of 41 affordable dwellings and associated works.	Denbighshire Consultation Response	High	Building/housing developments	2020, Granted										4.1	78794	2.8											
0/48667 To install a new one way relief road, to take queuing traffic off the main road allowing for better movement along the A548. Creation of new road junction and incorporation of drainage works	CCBC Planning Portal	High	Installation or upgrade of roads	2021, Approved										4.6	62346	3.5											
0/44022 - Erection of 11 kV overhead line	CCBC Planning Portal	High	National Grid enabling works	2017, granted										6.9	2	3.7	d	c	d	d	d	d	d	c	d	d	d
30/2018/0269 - Installation of a ground-mounted solar array development to provide renewable electricity to the water	Denbighshire CC Planning Portal	Medium	Other energy generation infrastructure	2018										11.	.3	4.1	d	d	c	c	d	d	d	d	d	d	a
treatment works 30/2018/0969 - 13 dwellings	Denbighshire CC	High	Building/housing	2018, granted										12.	2	4.4	d	d	c	~	4	4	4		4		
58304 - Residential development for 41 no. dwellings	Planning Portal Flintshire County	High	developments Building/housing	2018, granted										5.8	8	4.4	-					-			-		
	Council Planning Portal		developments														d	d	d	d	d	d	d	d	d	d	d
0/44263 - Provision of 5 no. self contained residential units 0/45487 - Installation of 14 no. solar panels	CCBC Planning Portal	High	Building/housing developments	2017, granted										7.3		6.3	d	c	d	d	d	d	d	d	d	c	d
	CCBC Planning Portal		Other energy generation Infrastructure	2018, granted										7.6			d	d	d	d	d	d	d	d	d	c	
0/43986 - Erection of 11 kV overhead line	CCBC Planning Portal	High	National Grid enabling works	2017, granted										14.	8	6.4	d	d	d	d	d	d	d	d	d	d	d
0/45297 - Erection of 73 dwellings, access and open space	CCBC Planning Portal	High	Building/housing developments	2018, granted										8.8		6.5	d	d	d	d	d	d	d	d	d	d	4
0/47520 - Increase the total number of dwellings proposed from 73 no. homes to 81 no. homes	CCBC Planning Portal	Medium	Building/housing developments	2020, submitted										8.8	8	6.5	d	d	d	d	d	d	d	d	d	d	d
00/2021/0583 EIA Scoping Opinion consultation of the proposed HyNet North West Carbon Dioxide Pipeline (Nationally Significant Infrastructure Project)	Denbighshire CC Planning Portal	High	Installation of upgrade of cables and pipelines	2021										8.0	109531	6.6											
	Deskiebski AA	lãob	Dullalla a financia	2010 -											4	7.1											<u> </u>
01/2019/1011 - Construction of a Local Authority Waste Transfer Station	Denbighshire CC Planning Portal	9 <sup>11</sup>	Building/housing developments	2019, granted												7.1	d	d	d	d	d	d	d	d	d	d	d
01/2019/0744 - 22 dwellings	Denbighshire CC Planning Portal	High	Building/housing developments	2019, granted										16.	.3	7.7	d	d	d	d	d	d	d	d	d	d	d
57971 - Residential development for 27 no. dwellings	Flintshire County Council Planning Portal	High	Building/housing developments	2018, granted										9.6	6	8.2	d	d	d	d	d	d	d	d	d	d	d
59730 - Installation of an 11 kV overhead line	Flintshire County Council Planning Portal	High	Installation or upgrade of cables and pipelines	2019, granted										10.	.6	8.3	d	d	d	d	d	d	d	d	d	d	d
53603 - Residential development to provide eight houses	Flintshire County Council Planning Portal	High	Building/housing developments	2017, granted										9.6	5	8.3	d	d	d	d	d	d	d	d	d	d	d
L	1	I		ļ												1	1		1	1			1		-	1	4

Project/Planning Application	Data Source(s)	Data Confidence Assessment	Notes	Date of Application and Status of	onstruction 2007	Period (rec	5023 2023	denotes A	wel y Môr 505	offshore co 8202 5028	onstruction p 62 7 7	2030 (polad	Distance (km)	e to ES ECC Distance to ES Draft Order Limits (km)	rrestrial gy and Nature rvation	eology Cultural eritage	e Noise Ibration	fic and ansport	Quality	rology, eology od Risk	gy and Sround xditions	pe and mpacts	an omic s	sm and reation	Health
				Development								2030			Terrestr Ecology al Natu Conservati	Archaed and Cu Heri	Virborne N and Vibr	Trai	Air	Hydrok Hydrogeol and Flood	Geolo	andsca Visual I	ocioecc	Tourisn Recre	Public
01/2019/0959 - 64 dwellings	Denbighshire CC	High	Building/housing	2019, granted									17.3	9.4	d	d	a	d	d	d	d	а. а	d	d	d
0/46535 - Rebuild and upgrade of existing 11 kV overhead line with associated LV line diversion	Planning Portal CCBC Planning Portal	High	developments National Grid enabling works	2019, granted									19.0	10.4	d	d	d	d	d	d	d	d	d		
61030 - Erection of 8 no. dwellings	Flintshire County Council Planning Porta	Medium	Building/housing developments	2020, submitted									13.2	10.5	d	d	d	d	d	d	d	d	d	d	d
0/45766 - Erection of 8 no. residential units	CCBC Planning Portal	High	Building/housing	2019, granted									11.4	11.4	d	d	d	d	d	d	d	d	d	d	d
59701 - Residential development for 10 no. dwellings	Flintshire County Council Planning Porta	High	developments Building/housing developments	2019, granted									13.0	11.5	ſ	ſ	ſ	r	ſ	ſ	r	ſ	r	1	e
60783 - Residential development for 20 no. dwellings	Flintshire County Council Planning Porta	Medium	Building/housing developments	2019, submitted				-					13.1	11.6	ſ	ſ	ſ	f	ſ	1	f	ſ	f	f	,
61838 - Dismantling and installation of overhead lines	Flintshire County Council Planning Porta	Medium	Installation or upgrade of cables and pipelines	2020, submitted			-	-					14.3	11.9										-	
0/49272 Planning application seeking full planning permission for the implementation of a coastal and storm defence scheme	CCBC Planning Portal		Coastal protection works	2022,			_	_					12.10861	4 12.1	ч 		u l	ч 			ч —		u		
comprising of a series of coastal protection measures, including the construction of a rock reventment along with alterations to provide improved pedestrian and cycle access, and associated public realm improvement works along Colwyn Bay, from Porth Erias in the west to Splash Point (by Old Colwyn Arches) in the east.	2			Registered																					
0/44478 - 63 bed hotel, 5 no. restaurants units and 1 no. business unit		High	Building/housing developments	2017, granted									12.3	12.2	ſ	ſ	ſ	ſ	ſ	ſ	ſ	ſ	ſ	ſ	ſ
0/45708 - Erection of a four storey apartment block to accommodate 16 affordable housing units	CCBC Planning Portal	High	Building/housing developments	2018, granted									12.4	12.2	ſ	r	ſ	ſ	f	f	ı	ſ	ı	r	r
0/47284 - Development of 89 no. dwellings	CCBC Planning Portal	Medium	Building/housing developments	2020, submitted									12.5	12.4	t	r	f	ſ	ſ	r	t	ſ	f	1	r I
0/44859 - Residential development of 22 no. dwellings and associated infrastructure	CCBC Planning Portal	High	Building/housing developments	2020, granted									12.6	12.6	d	d	d	d	d	d	d	d	d	d	d
0/4728 - Proposed erection of 2 no. industrial buildings providing 7 no. units	CCBC Planning Portal	Medium	Building/housing developments	2020, submitted									12.8	12.7	ſ	ſ	f	f	ſ	ſ	ſ	ſ	f	£	t.
D/45845 - Erection of 39 dwellings	CCBC Planning Portal	Medium	Building/housing developments	2019, submitted									12.8	12.8	d	d	d	d	d	d	d	d	d	d	d
D/46130 - Construction of 46 no. apartments, 42 no. new dwellings	CCBC Planning Portal	Medium	Building/housing developments	2019, submitted									13.0	13.0	d	d	d	d	d	d	d	d	d	d	d
0/45618 - Erection of 9 no. dwellings	CCBC Planning Portal	High	Building/housing developments	2018, granted									13.2	13.2	d	d	d	d	d	d	d	d	d	d	d
58975 - Construction and operation of a gas fuelled capacity mechanism embedded generation plant and associated infrastructure	Flintshire County Council Planning Porta	High al	Other energy generation Infrastructure	2019, granted									15.9	14.1	f	f	f	f	r	r	f	f	f	f	f
58639 - Construction and operation of a gas fuelled capacity mechanism embedded generation plant and associated infrastructure	Flintshire County Council Planning Porta	High	Other energy generation Infrastructure	2018, granted									16.0	14.2	ſ	ſ	r	ſ	ſ	1	r	r	ſ	1	f
0/44726 - Erection of 11 kV overhead line	CCBC Planning Portal	High	National Grid enabling works	2018, granted									21.3	14.7	d	d	d	d	d	d	d	d	d	a	a
0/44548 - Proposed residential development comprising 52 no. dwellings	CCBC Planning Portal	High	Building/housing developments	2017, granted									14.7	14.7	1	ſ	ſ	ſ	f	r	ſ	1	f		
57261 - Erection of 4 storey building - 55 apartments	Flintshire County Council Planning Ports	High	Building/housing developments	2017, granted									16.9	14.9	f	ſ	ſ	f	ſ		r	ſ	r	r.	,
0/47133 - Erection of 6 no. industrial units	CCBC Planning Portal	High	Building/housing	2020, granted									15.1	15.1	f	f	f	f	ſ	1	f	f	f	r -	f
57865 - Erection of 44 no. dwellings	Flintshire County Council Planning Porta	High al	developments Building/housing developments	2018, granted									17.2	15.2	f	f	r	r	r	1	r	f	r	1	f
61230 - Residential development including 15 no. new housing units	Flintshire County Council Planning Ports	Medium	Building/housing developments	2020, submitted				-					17.3	15.2	ſ	ſ	ſ	f	ſ	1	f	ſ	f	f	,
0/45608 - Erection of 11 kV overhead line	CCBC Planning Portal	High	National Grid enabling works	2018, granted				_				_	15.6	15.6											4
0/45260 - erection of 16 residential units	CCBC Planning Portal	High	Building/housing	2018, granted				_					15.7	15.7	۵ د	·				•					
58474 - Proposed creation of a sewerage pumping station	Flintshire County Council Planning Porta	High	developments Building/housing developments	2018, granted									18.4	16.6			, ,	r	, ,		r r		r r		
61675 - Install new LV overhead service line	Flintshire County Council Planning Porta	Medium	Installation or upgrade of cables and pipelines	2020, submitted									19.1	17.2											
0/46952 - Erection of 6 no. dwellings/houses	CCBC Planning Portal	High	Building/housing	2019, granted									17.2	17.2				· · ·	·		:		' '		Ļ
0/47043 - Re-position existing overhead lines and install additional LV pole and stay	CCBC Planning Portal	High	developments National Grid enabling works	2020, granted									17.9	17.9	ſ	f	ſ	ſ	ſ	ſ	ſ	ſ	ſ	1	ſ
0/46977 - Proposed residential development for 107 no. residential dwellings	CCBC Planning Portal	Medium	Building/housing developments	2020, submitted									17.9	17.9	ſ	r	ſ	r	f	1	1	1	1	,	,
59925 - Retrospective planning for a 2nd underground supply	Flintshire County Council Planning Porta	High	Installation or upgrade of cables and pipelines	2019, granted									20.7	18.4	ſ	f	1	ſ	ſ	1	ſ	ſ	ı	1	r
16/2018/1137 - 38 dwellings	Denbighshire CC	High	Building/housing	2018, granted									25.4	18.5	1	r	f	r	1	1	1	1	1	,	
0/45282 - Erection of 5 no. market dwellings and 2 no. affordable dwellings	Planning Portal CCBC Planning Portal	High	developments Building/housing	2018, granted			-						21.0	20.2	ſ	1	1	ſ	1	1	1	1	1		
dwellings 59143 - The erection of a 7.5 MW gas fired power station and associated infrastructure	Flintshire County Council Planning Porta	High	developments Other energy generation infrastructure	2019, granted									22.4	20.3	ſ	f	ſ	f	1	1	ſ	ı	f	1	1
DCO/2016/0947 - The Clocaenog Forest Wind Farm Order	Denbighshire CC	High	Other energy generation	2016, granted								_	29.7	20.3							,		c		
57732 - Construction of a 5 MW flexible gas fired power station	Planning Portal Flintshire County	High	Infrastructure Other energy generation	2017, granted			_	_				_	22.4	20.3											
	Council Planning Porta	81	Infrastructure												f	f	ſ	f	ſ	ſ	1	f	f	ſ	1

Normal     Normal </th <th>Project/Planning Application</th> <th>Data Source(s)</th> <th>Data Confidence</th> <th>N</th> <th>Data at</th> <th>Construction</th> <th>n Period (r</th> <th>ed outlin</th> <th>ne denotes A</th> <th>wel y Mô</th> <th>r offshore o</th> <th>onstruction pe</th> <th>riod)</th> <th>Die</th> <th></th> <th></th> <th>= = = = =</th> <th>N= 0</th> <th></th> <th></th> <th></th> <th></th> <th>17 77 10</th> <th>7 9</th> <th></th> <th><b>n</b> C</th> <th></th>	Project/Planning Application	Data Source(s)	Data Confidence	N	Data at	Construction	n Period (r	ed outlin	ne denotes A	wel y Mô	r offshore o	onstruction pe	riod)	Die			= = = = =	N= 0					17 77 10	7 9		<b>n</b> C	
************************************	Project/Planning Application	Data source(s)	Data Confidence Assessment	Notes	Date of Application and Status of Development	2020 2021	202	2023	2024	2026	202	2029	2030 - 2050	Dis (kr	n)	Distance to ES Draft Order Limits (km)	Terrestria Ecology and Nature Conservation	Archaeology and Cultura Heritage	Virborne Noise and Vibratio	Traffic and Transpor	Air Quality	Hydrology Hydrogeolog and Flood Risi	Geology and Ground Condition	andscape and Visual Impact	scioeconomic	Tourism and Recreation	Public Healt
	59862 - Installation and operation of a 2 MW ground mounted solar farm	Flintshire County Council Planning Portal	ligh	Other energy generation Infrastructure	2019, granted									22.	4	20.4	r	ſ	1	ſ	f	ſ	ſ	<u>، ج</u>	r	t	r -
Processe     Proc	11/2019/0751 - 5 dwellings	Denbighshire CC	ligh	Building/housing	2019, granted									29.	1	20.6	f	ſ	r	ſ	ſ	ſ	ſ	f	ſ	r	
	60699 - Outline application for proposd residential development of 18 no. houses	Flintshire County	Medium	Building/housing										23.	0	20.9	r	ı	ı	ſ	ſ	r	ſ	r	r	ı	1
Mathematical			Medium											23.	1	21.0	r	ı	r	f	f	r	f	r	f	r	1
	57565 - Erection of 20 no. detached dwellings	Flintshire County Council Planning Portal	Medium	Building/housing developments	2017, submitted									23.	2	21.1	r	r	ſ	ſ	r	f	f	ſ	r	r	ı
	60006 - Erection of 19 apartment units in 3 blocks	Flintshire County Council Planning Portal	Medium	Building/housing developments										23	4	21.4	t	ı	ſ	f	f	r	f	ſ	f	r	1
	59638 - Construction of 5 dwellings		ligh		2019, granted									23.	6	21.5	t	ı	ſ	f	f	r	f	ſ	f	r	ı
	concrete sea defence wall and the erection of a replacement sea	IOA CC Planning Portal	Medium	Coastal protection works	2019									25.9	9	21.7	t	ſ	f	ſ	f	f	f	ſ	f	f	ı.
	12/2017/0638 - Minimum 5 dwellings		ligh		2017, granted									30.	4	21.8	f	ſ	r	ſ	f	f	r	r	r	r	f
	58957 - Demolition of existing outbuilding, installation of new fuel tanks	Flintshire County	ligh	Building/housing	2019, granted									23.9	9	21.9	r	r	ſ	f	r	ſ	f	r	r	r	ı.
	59399 - Proposed erection of 52 dwellings	Flintshire County Council Planning Portal	High	Building/housing developments	2019, granted									24.	1	22.0	ſ	r	f	f	r	ſ	r	f	r	f	ı.
mm       mode       <	57540 - Amendments to previously approved house types to allow for 73 dwellings (an increase by 9 on previous approval)	Flintshire County Council Planning Portal	figh	Building/housing developments	2017, granted									24.	3	22.2	1	ſ	ſ	1	f	f	f	1	f	1	r.
	12/2020/0253 - Installation of 12 solar photovoltaic ground mounted panels		ligh		2020, granted									31.	0	22.3	ſ	ſ	1	ſ	f	1	f	ſ	r	1	1
include	54077 - Outline application for residential development of 16 dwellings	Elintshire County	figh	Building/housing	2020, granted									24.	4	22.4	r	ı	r	f	f	r	f	r	f	r	1
	53325 - Outline application for the erection of 10 no. dwellings	Flintshire County Council Planning Portal	figh	Building/housing developments	2019, granted									27.	1	22.4	r	ı	r	f	f	r	f	r	f	r	ı
	60696 - Outline application for 28 dwellings	Flintshire County Council Planning Portal	Medium	Building/housing developments	2019, submitted									27.:	2	22.6	ſ	r	f	ſ	ſ	f	ſ	ſ	r	r	,
	60414 - Construction of 5 no. detached dwellings		ligh		2019, granted									26.0	6	22.8	1	ſ	r	ſ	f	f	f	ſ	r	ſ	ı.
	61154 - Proposed residential development for 90 no. residential units	Flintshire County Council Planning Portal	Medium											27.:	2	23.0	r	ı	r	ſ	f	r	f	r	f	r	ı
	DCO/2018/0804 - Related to the North Wales Wind Farms Connection Order	Denbighshire CC	Medium	Other energy generation	2018									32	4	23.1	ſ	f	r	r	r	f	r	ſ	r	r	r
Conditionary for       Singlers		CCBC Planning Portal	High	Building/housing	2018, granted									26.	6	23.2	f	ſ	r	ſ	f	f	f	r	r	r	t
Source	59421 - Erection of 23 no. apartments		ligh		2019, granted									27.:	2	23.4	ſ	ı	r	r	ſ	r	ſ	ſ	r	ı	ı
Image: Marcine of the sector of the secto	56742 - Residential development for 160 no. dwellings	Flintshire County Council Planning Portal	ligh	Building/housing developments	2018, granted									28.0	0	23.8	ſ	ı	r	r	ſ	ſ	ſ	ſ	r	ı	r.
Bitted	FPL/2019/327 - Full application for the erection of 5 dwellings	IOA CC Planning Portal	Medium	Building/housing developments	2019, submitted									28.	1	23.9	f	f	ſ	ſ	f	ſ	ſ	f	ſ	ſ	f
initial	0/46652 - Demolition of 30 apartments and erection of 14 affordable dwellings	CCBC Planning Portal	ligh	Building/housing	2019, granted									28.	9	24.0	f	ſ	ſ	ſ	ſ	ſ	ſ	r	ſ	f	ſ
Schultzerseiner       OAC C Panning Porti       Median       Builary frauency       Schultzerseiner       Schultzerseinseiner       Schultzerseiner	SCR/2020/3 - Screening opinion for erection of 5 dwellings (EIA not req.)	IOA CC Planning Portal	Medium		2020									28.	6	24.2	f	ſ	1	ſ	ſ	ſ	1	r	ſ	1	1
DA327- Decision of 11 W ownersation       CCC Parrain portal       High       National Get dending model       201, guanted       N <td></td> <td>IOA CC Planning Portal</td> <td>Medium</td> <td>Building/housing developments</td> <td>2020</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>28.</td> <td>6</td> <td>24.2</td> <td>f</td> <td>ſ</td> <td>r I</td> <td>ſ</td> <td>ſ</td> <td>f</td> <td>1</td> <td>r</td> <td>1</td> <td>1</td> <td>1</td>		IOA CC Planning Portal	Medium	Building/housing developments	2020									28.	6	24.2	f	ſ	r I	ſ	ſ	f	1	r	1	1	1
Lend       Council Planning Portal       developments       ubbinitied       ubbi	0/43757 - Erection of 11 kV overhead line	CCBC Planning Portal	High		2017, granted									26.:	3	24.4	f	ſ	r	ſ	f	f	f	r	r	r	1
Concide Planning Portal       Gene of planning Portal <td></td> <td>Flintshire County Council Planning Portal</td> <td>Medium</td> <td></td> <td>2019, submitted</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>27.</td> <td>6</td> <td>24.4</td> <td>1</td> <td>ſ</td> <td>f</td> <td>f</td> <td>f</td> <td>f</td> <td>f</td> <td>r</td> <td>r</td> <td>ı</td> <td>r</td>		Flintshire County Council Planning Portal	Medium		2019, submitted									27.	6	24.4	1	ſ	f	f	f	f	f	r	r	ı	r
Introlucional Section 37 of the Section 37 of the Section 37 of the Section 47 or sectin 47 or sectin 47 or section 47 or section 47 or section 47 or sec	58968 - Residential development of 20 no. apartments	Flintshire County Council Planning Portal	ligh	Building/housing developments	2019, granted									28.	6	24.5	1	ı	ſ	r	f	r	f	1	r	ı	r
DL7/2019-1-14 againstance       National Order enabling with service       Natin a service       National Order enab	reinstatement works	Denbighshire CC Planning Portal	ligh	Installation or upgrade of roads	2017, granted									33.	8	25.0	f	ſ	1	ſ	f	1	f	f	ſ	1	1
Op/2017/02- Incidenced with times       Description of a regularement on the mergy generation of the mergy generation developmergeneration developmergeneration of the mergy generatio	ELE/2019/9 - Full application under Section 37 of the Electricity Act 1989 for the re-build of the existing 11 kV overhead line		Medium	National Grid enabling works										29.	7	25.1	f	ſ	1	ſ	f	1	f	f	ſ	1	1
Space-Decision of Spino, dwellings and associated works       Firstlyin Council Panning Portal       Space-Decision of Spino, dwellings       Spino Panning Portal       Spino Pan	00/2017/0756 - Erection of 4 no. replacement wind turbines at Hafoty Ucha wind farm		Medium		2017,									34.	5	25.3	f	ſ	r	ſ	f	f	f	r	r	r	t
Council Planning Potal       developments       e		Flintshire County	High	Building/housing										28.	7	25.5	1	r	ſ	ſ	f	f	ſ	ſ	f	1	r.
Council Planning Portal     developments     submitted     a       5858 - Conduction 0'3 no. dwellings     Billiding/housing     2019     C     C     202     26.0     C	58799 - Re-development into 5 no. dwellings	Flintshire County Council Planning Portal	ligh	Building/housing developments	2020, granted									28.1	8	25.8	1	ſ	1	ſ	f	f	f	1	f	1	r.
States - Construction of 33 no. dwellings         Medium         Building/housing developments         2019 submitted         2019 abmitted         2	61572 - Development of 56 dwellings		Medium											29.	4	25.8	1	r	ſ	ſ	f	f	ſ	1	f	1	r.
	58583 - Construction of 33 no. dwellings	Flintshire County Council Planning Portal	Medium		2019, submitted									28.	2	26.0	1	ſ	ſ	r	f	ſ	f	1	f	r	1

Project/Planning Application	Data Source(r)	Data Confidence	Notor	Data of	Construction	Period (red	outline der	otes Awel	y Môr offsho	ore const	truction p	eriod)	Distance to ES EC	C Distance to ES		550	m <b>C</b>	77	~	274	87.0	ρø	0.0	<b>T C</b>	5
мојесималліпу кррісаций	Data source(s)	Assessment	noies	Application and Status of Development	202(	202	2024	202	2026	2021	202	2030 - 2050	Distance to ES EC (km)	Draft Order Limits (km)	Terrestria Ecology and Nature Conservation	Archaeolog; and Culture Heritage	virborne Noise and Vibratio	Traffic and Transpor	Air Quality	Hydrology Hydrogeolog and Flood Ris	Geology and Ground Condition	indscape an	cioeconomic.	Tourism and Recreation	Public Healt
58544 - Residential development of 30 no. affordable apartments	Flintshire County Council Planning Portal	Medium	Building/housing developments	2019, submitted									28.5	26.4	f	f	1	f	r	1	f	1	r S	r	r
56530 - Erection of 9 dwellings	Flintshire County Council Planning Portal	High	Building/housing developments	2017, granted									28.6	26.5	r	r	r	r	r	r	ſ	r	f	ſ	f
56658 - Erection of 8 no. flats, 2 no. retail units and 16 no. parking spaces	Flintshire County Council Planning Portal	High	Building/housing developments	2018, granted									28.9	26.9	r	r	r	r	r	r	ſ	r	f	ſ	t
60765 - Installation and operation of ground monuted solar panels and associated infrastructure	Flintshire County Council Planning Portal	High	Other energy generation infrastructure	2020, granted									29.2	27.1	ı	ſ	r	r	ı	ı	r	ı	r	ı	r
57165 - Erection of 13 no. houses and 6 no. apartments	Flintshire County Council Planning Portal	High	Building/housing developments	2020, granted									30.5	27.3	ı	ſ	ı	ſ	ı	ı	ſ	ſ	r	f	ſ
59991 - Erection of 5 no. detached dwellings	Flintshire County Council Planning Portal	High	Building/housing developments	2019, granted									30.2	27.4	r	ſ	ſ	ſ	r	r	ſ	r	f	ſ	f
57477 - Installation of a 4.5 kW micro-hydro scheme	Flintshire County Council Planning Portal	High	Other energy generation Infrastructure	2018, granted									29.7	27.6	ı	f	r	f	r	r	t	r	f	r	f
60955 - Erection of 10 affordable walk-up apartments and 2 affordable houses	Flintshire County Council Planning Portal	High	Building/housing developments	2020, granted									30.9	27.6	ı	ſ	r	f	r	r	t	r	f	r	f
FPL/2019/204 - Full application fot the erection of 27 affordable dwellings	IOA CC Planning Portal	High	Building/housing developments	2019, granted									34.1	27.6	f	f	f	ſ	r	f	ſ	f	ſ	ſ	f
59739 - Erection of 75 to 90 bed extra care facility to include supporting communal facilities and 12 bungalows and ancillay works	Flintshire County Council Planning Portal	Medium	Building/housing developments	2019, submitted									31.0	27.7	ı	ſ	r	f	r	r	t	r	f	r	f
56524 - Construction of 14 houses	Flintshire County Council Planning Portal	High	Building/housing developments	2017, granted									31.0	27.8	r	f	r	ſ	ı	r	ſ	r	r	r	r
58270 - Construction and operation of a waste management facility	Flintshire County Council Planning Portal	High	Building/housing developments	2018, granted									29.8	27.9	f	f	r	ſ	ı	r	ſ	r	f	ı	f
59175 - construction and operation of an urban reserve 2x2.5 MW gas fired power plant	Flintshire County Council Planning Portal	High	Other energy generation Infrastructure	2019, granted									29.9	28.0	ı	f	r	r	ı	r	r	r	r	f	r
58296 - Erection of 28 apartments and 3 houses	Flintshire County Council Planning Portal	High	Building/housing developments	2019, granted									30.6	28.3	ı	ſ	ı	ſ	ı	ı	ſ	ſ	ſ	ſ	f
59388 - Erection of 10 no. industrial units	Flintshire County Council Planning Portal	High	Building/housing developments	2019, granted									31.2	28.3	ſ	ſ	ı	ſ	ı	ı	ſ	r	r	ſ	r
57115 - Erection of 5 no. dwellings	Flintshire County Council Planning Portal	High	Building/housing developments	2017, granted									30.6	28.4	ı	ſ	ı	ſ	ı	ı	ſ	ſ	ſ	ſ	f
57374 - Construction of 23 no. dwellings and associated works	Flintshire County Council Planning Portal	High	Building/housing developments	2018, granted									31.1	28.6	ı	ſ	ſ	ſ	ı	ı	ſ	ſ	ſ	ſ	r
	Flintshire County Council Planning Portal	Medium	Building/housing developments	2019, submitted									30.7	28.6	ı	ſ	r	ſ	r	r	ſ	r	ſ	ı	r
56726 - Erection of 9 no. dwellings	Flintshire County Council Planning Portal	High	Building/housing developments	2017, granted									30.9	28.7	ı	r	r	r	r	r	r	r	r	f	r
0/44248 - Erection of 4 no. replacement wind turbines at Hafoty Ucha wind farm	CCBC Planning Portal	High	Other energy generation Infrastructure	2017, granted									38.1	28.8	f	ſ	f	f	r	f	ſ	f	r	f	f.
56601 - Erection of 7 dwellings	Flintshire County Council Planning Portal	High	Building/housing developments	2017, granted									33.0	28.8	ı	ſ	r	ſ	r	r	ſ	r	ſ	ı	r
61392 - Erection of 56 dwellings	Flintshire County Council Planning Portal	Medium	Building/housing developments	2020, submitted									31.8	28.9	ı	ſ	r	ſ	r	r	ſ	r	ſ	ı	r
61507 - Outline application for approval in principle for residential development (up to 94 dwellings)	Flintshire County Council Planning Portal	Medium	Building/housing developments	2020, submitted									32.1	29.0	ſ	f	ſ	f	ı	r	1	ı	f	ı	1
SCR/2019/65 - Screening opinion for the erection of a new 11 kV overhead line together with the removal of existing overhead line (EIA not req.) 10/2017/0330 - 6 dwellings	IOA CC Planning Portal	Mealum	National Grid enabling works	2019									34.9	29.2	ſ	f	f	ſ	ſ	f	ſ	ſ	ſ	f	r
	Denbighshire CC Planning Portal	High	Building/housing developments	2017, granted									37.3	29.3	ſ	r	f	ſ	r	r	r	r	r	f	r
ELE/2019/7 - Full application under Section 37 of the Electricity Act 1989 to upgrade the existing overhead supply to a mainline	IOA CC Planning Portal		National Grid enabling works	2019, granted									37.3	29.3	ı	ſ	r	f	r	r	f	r	f	r	f
59343 - Proposed residential development for 12 no. units	Flintshire County Council Planning Portal	High	Building/housing developments	2019, granted									32.0	30.0	ı	ſ	ſ	ſ	ı	ı	ı	ſ	ſ	ı	r
59277 - Development of existing highway land to a Park & Ride facility with associated infrastructure	Flintshire County Council Planning Portal	High	Installation or upgrade of roads	2019, granted									32.0	30.1	ı	ſ	ſ	ſ	ı	ı	ı	ſ	ſ	ı	r
C20/0015/16/LL - 5 industrial units	Gwynedd Council Planning Portal	High	Building/housing developments	2020, granted									33.3	30.2	f	f	ſ	f	ſ	ſ	ſ	ſ	ſ	f	r
FPL/2019/249 - Erection of 14 dwellings	IOA CC Planning Portal	Medium	Building/housing developments	2019, submitted									38.2	30.2	ſ	f	f	ſ	ſ	f	f	ſ	f	f	f
61573 - 40 new dwellings - application to renew unexpired outline planning permission	Flintshire County Council Planning Portal	Medium	Building/housing developments	2020, submitted									33.8	30.2	ı	f	ſ	ſ	ı	r	1	ı	f	1	r
59352 - Erection of 32 no. dwellings	Flintshire County Council Planning Portal	High	Building/housing developments	2019, granted									33.6	30.3	ſ	f	ſ	f	r	r	ſ	r	f	r	f
58310 - Erection of 24. no dwellings	Flintshire County Council Planning Portal	High	Building/housing developments	2018, granted									33.3	30.3	1	£	ſ	f	1	r .	ſ	r	f	r	f

10 1 . 400 1	a. a. ()			<b>.</b>	Construction	Period (re	ed outlin	e denotes /	wel y Mo	or offshore	e construc	ction pe	eriod)		50 500 BL	= = = = =	~ = ~						71 00			-
Project/Planning Application	Data Source(s)	Assessment	Notes	Application	2020	2023	2023	2024	2026	2027	2028 2029	202	2050	Distance t (km)	o ES ECC Distance to ES Draft Order Limits	sstria y and ature atior	ology ittage	Noise	spor	uality	logy ology d Risl	y and ound itions	e and	omo tr	ation	lealt
				and Status of Development									030 -		(km)	olog: N Nserv	Her	I VIb	Tran	Ar O	fydrc Toge	Sold Grad	al Im	BCON	tecre	NK H
													~			S E	Arcan	and			and Hydr	e	Visu	bcio	0 E	Put
ELE/2019/2 - re-build of the existing 11 kV overhead line	IOA CC Planning Portal	High	National Grid enabling works	2019, granted										36.1	30.3					,			-	<i>м</i>		
57731 - Construction of a 5 MW flexible gas fired power station	Flintshire County	High	Other energy generation	2018, granted										32.5	30.4	•		-	-	-					<u> </u>	
	Council Planning Portal	-	infrastructure													ſ	f	r	ſ	ſ	ſ	r	r	r	r	r i
61627 - The construction of a flexible gas fired power station	Flintshire County	High	Other energy generation	2020, granted										32.5	30.4											
	Council Planning Portal		infrastructure													ı	f	ſ	f	r	f	f	ſ	f	r	1
61790 - Proposed residential development for 25 no. affordable dwellings	Flintshire County Council Planning Portal	Medium	Building/housing developments	2020, submitted										32.5	30.4										_	
	-															'	'	<u>'</u>		·	'		ľ	ľ	<u>'</u>	
C20/0669/11/LL 4 storey building - 36 residential units	Gwynedd Council Planning Portal	Medium	Building/housing developments	2020, submitted										34.1	30.5	r	f	r	f	f	f	r	r	f	r	r i
05/2018/0188 - 8 dwellings	Denbighshire CC Planning Portal	High	Building/housing developments	2018, granted										39.7	31.1	ſ	ſ	ſ	ſ	ſ	ſ	ſ	f	ſ	ſ	ſ
05/2018/0790 - Installation of a 100 kW micro-hydro turbine with associated buried pipeline, turbine shed, buried power cable and a	Denbighshire CC	High	Other energy generation	2018, granted										39.9	31.3											
metering cabinet	Planning Portal	Ulioh	infrastructure Building/housing	2010										35.6	31.5	'	'	<u>'</u>	'	<u>'</u>	'	' ·	<u>'</u>	'	'	4
	IOA CC Planning Portal		developments	2019, granted												f	ſ	ſ	ſ	ſ	ſ	f	f	ſ	ſ	f
59125 - Erection of 8 no. dwellings	Flintshire County Council Planning Portal	High	Building/housing developments	2019, granted										33.8	31.6	ſ		,		,		r	r	,	r	,
C20/0018/13/LL 7 dwellings	Gwynedd Council	Medium	Building/housing	2020										24.0	20.0											4
	Planning Portal		developments	2020, submitted										JA.2	32.3	ſ	1	ſ	ſ	1	ſ	ſ	ſ	ſ	1	1
C19/1072/11/LL 30 residential units	Gwynedd Council Planning Portal	Medium	Building/housing developments	2019, submitted										36.0	32.4	ſ	1	ſ	ſ	ſ	ſ	f	f	ſ	1	1
08/2018/0707 - Installation of pipeline to serve existing hydro power station	Denbighshire CC Planning Portal	High	Installation of upgrade of cables and pipelines	2018, granted										41.7	32.7	ſ	ſ	ſ	f	1	r	1	ſ	r	1	f
61530 - Residential development of 95 dwellings	Flintshire County	Medium	Building/housing	2020,										35.9	32.8											
	Council Planning Portal		developments	submitted												ſ	1	1	1	ſ	ſ	1	ſ	ſ		1
FPL/2019/172 - Full application for the erection of 6 dwellings	IOA CC Planning Portal	High	Building/housing developments	2019, granted										38.6	32.9	r	f	ſ	f	1	ſ	1	1	r	1	r in the second s
59150 - Construction of a 2.5 MW flexible gas fired power plant	Flintshire County	High	Other energy generation	2019, granted										35.2	32.9											
	Council Planning Portal		infrastructure													ſ	f	ſ	f	ſ	f	f	ſ	f	r	1
58793 - Outline applicatio for the demolition of existing dwellings and erection of 7 no. dwellings	Flintshire County Council Planning Portal	High	Building/housing developments	2020, granted										35.6	33.0											
														42.2	33.3	·	·	<u> </u>		<u> </u>			<u> </u>		<u> </u>	Ľ
08/2018/0814 - Installation of a 19.2 m high 6 kW wind turbine	Denbighshire CC Planning Portal	High	Other energy generation infrastructure	2018, granted										42.2	33.3	f	ſ	ſ	ſ	ſ	ſ	ſ	f	ſ	ſ	r i
58513 - Construction and operation of a 213 space car park	Flintshire County Council Planning Portal	High	Building/housing developments	2018, granted										35.9	33.6	,										
																·	·	<u> </u>		<u> </u>			<u> </u>		<u> </u>	Ľ
FPL/2019/207 - Full application for the erection of 15 dwellings	IOA CC Planning Portal		Building/housing developments	2019, granted										41.6	33.8	r	f	r	f	r	f	f	ſ	f	r	r -
OP/2020/11 - Outline application for the erection of 9 affordable dwellings	IOA CC Planning Portal	Medium	Building/housing developments	2020, submitted										41.2	35.4	ſ	f	r	ſ	r	ſ	r	r	r	r	r i
FPL/2020/150 - Full application for the erection of 9 dwellings	IOA CC Planning Portal	Medium	Building/housing	2020, submitted										41.8	36.0	r	ſ	r	ſ	ſ	1	r	r	f	r	r
56779 - Erection of 70 no. new dwellings	Flintshire County	High	developments Building/housing	2017, granted										38.3	36.2											
	Council Planning Portal		developments													ſ	ſ	ſ	ſ	ſ	ſ	ſ	ſ	f	ſ	ſ
FPL/2019/239 - Full application fot the erection of 6 dwellings	IOA CC Planning Portal	High	Building/housing developments	2019, granted										42.2	36.3	ſ	f	ſ	f	r	ſ	ſ	f	ſ	r	r
FPL/2019/124 - Full application for the erection of 5 open market dwellings and 1 affordable dwelling	IOA CC Planning Portal	Medium	Building/housing	2019,										41.3	36.3	ſ	,	1	,	(	,	ſ	ſ	(	ſ	,
C20/0041/04/LL - 5 holiday pods and associated works	Gwynedd Council	Medium	developments Building/housing	submitted 2020,										46.4	37.0										_	
FPL/2020/87 - Erection of 12 market housing dwellings and 4	Planning Portal IOA CC Planning Portal	Medium	developments Building/housing	submitted 2020.										42.1	37.1	'	'	<u>'</u>	·	<u>'</u>	'	·	-	ľ	'	
affordable dwellings			developments	submitted										74.1		f	ſ	ſ	ſ	ſ	ſ	1	ſ	f	ſ	ſ
FPL/2020/153 - Construction of an industrial estate, comprising total floorspace ca. 26,914 sqm	IOA CC Planning Portal		Building/housing developments	2020, submitted										42.2	37.3	ſ	r	ſ	r	ſ	ſ	r	ſ	f	ſ	ſ
FPL/2020/153 - Construction of an industrial estate, comprising total floorspace ca. 26,914 sqm	IOA CC Planning Portal	Medium	Installation or upgrade of raods	2020, submitted										42.2	37.3	ſ	ſ	r	ſ	r	ſ	f	f	r	1	1
SCR/2020/46 - Construction of an industrial estate, comprising total floorspace ca. 26,914 sqm	IOA CC Planning Portal	Medium	Building/housing developments	2020, submitted										42.2	37.3	ſ	1	r	ſ	1	ſ	f	f	r	1	f
ELE/2019/6 - Full application under Section 37 of the Electricity Act 1989 to upgrade the existing overhead supply to a mainline	IOA CC Planning Portal	High	National Grid enabling works	2019, granted										44.1	39.8											
1989 to upgrade the existing overhead supply to a mainline C19/1045/18/LL - 18 touring units and associated facilities	Cuamodd C	High	Pulking /bourie =	2020 areate										43.4	39.9				1							
	Gwynedd Council Planning Portal	-	Building/housing developments	2020, granted												ſ	ſ	ſ	ſ	ſ	f	ſ	f	ſ	1	ſ
Wylfa Newydd Nuclear Power Station	National Infrastructure Planning Website	Medium	Nuclear power station	2020, submitted										48.7	40.3	r	1	r	r	r	r	1	r	r	r	r
C20/0494/20/LL - 208 holiday lodges, 51 holiday apartments	Gwynedd Council	Medium	Building/housing	2020.									_	44.4	40.6											
	Planning Portal		developments	submitted												f	f	ſ	f	ſ	ſ	f	f	ſ	1	r
Glyn Rhonwy Pumped Storage	National Infrastructure Planning Website	High	Pumped storage	2017, granted										42.8	40.7	ſ	1	1	f	ſ	r	ſ	ſ	c		1
C20/0538/03/LL - 6 dwellings	Gwynedd Council	Medium	Building/housing	2020,									_	47.6	41.5											
	Planning Portal		developments	submitted											191.0	ſ	1	ſ	ſ	I	ſ	f	ſ	r	ſ	ſ
C20/0647/26/LL - Reinstatement of bridge and surface of access road	Gwynedd Council Planning Portal	Medium	Installation or upgrade of roads	2020, submitted										45.4	42.9	ſ	1	ſ	ſ	ſ	ſ	f	f	ſ	1	1
C20/0190/19/AC - Works associated with the Bontnewydd bypass	Gwynedd Council Planning Portal	Medium	Installation or upgrade of roads	2020, submitted										47.1	43.7	r	f	ſ	f	1	ſ	1	1	r	1	r i
FPL/2020/168 - Full application for the siting of 31 touring caravans and siting of 6 camping pods	IOA CC Planning Portal	Medium	Building/housing	2020, submitted										52.3	46.0	ſ	r	r	ſ	r	ſ	1	ſ	r	1	r
C20/0562/24/LL - Erection of dwelling and installation of treatment International International Inte	Gwynedd Council	Medium	developments Building/housing	2020,										49.2	46.3										,	
SCR/2020/12 - Screening opinion for the erection of a silage clamp	Planning Portal IOA CC Planning Portal	Medium	developments Building/housing	submitted 2020									_	53.9	46.5											
and manure shed together with the installation of a new treatment plant (EIA reg.)	-		developments													ſ	ſ	ſ	ſ	i I	ſ	f	ſ	r	ſ	ſ
FPL/2019/157 - Full application fo the erection of 50 seated grandstand	IOA CC Planning Portal	High	Building/housing developments	2019, granted										53.6	47.3	ſ	1	ſ	ſ	ſ	ſ	f	f	ſ	1	1
L		+						_	-			_	_						-							

					Construction Period (red outline denotes Awel y Mor offshore construction period)								n	1												
Project/Planning Application	Data Source(s)	Data Confidence Assessment	Notes	Date of Application and Status of Development	2020	2022	2023	2024 2025	2026	2027	2028	2030	2030 - 2050	Distance to ES E (km)	CC Distance to ES Draft Order Limits (km)	Terrestrial Ecology and Nature Conservation	Archaeology and Cultural Heritage	Airborne Noise and Vibration	Traffic and Transport	Air Quallty	Hydrology. Hydrogeology and Flood Risk	Geology and Ground Conditions	Landscape and Visual Impacts	Socioeconomic s	Tourism and Recreation	Public Health
FPL/2020/149 - Full application for the erection of 8 affordable dwellings	IOA CC Planning Portal	Medium	Building/housing developments	2020, submitted										53.7	47.4	ſ	r	ſ	ſ	ſ	r	ſ	ſ	1	f	r
C19/1089/22/LL - 12 dwellings	Gwynedd Council Planning Portal	Medium	Building/housing developments	2019, submitted										54.0	51.3	ſ	ſ	r	ſ	f	ſ	r	ſ	ſ	f	f
C20/0362/08/LL - Erection of 100 seat spectator stand	Gwynedd Council Planning Portal	Medium	Building/housing developments	2020, submitted										57.9	52.1	ſ	r	r	ſ	ſ	r	r	ſ	ſ	ſ	r
SCR/2019/33 - Screening opinion for the development of an operation of a gas fuelled fast response standby electricity generation plant (7.5 MW) (EIA not required)	IOA CC Planning Portal	Medium	Other energy generation infrastructure	2019										59.7	52.4	ſ	ſ	r	r	f	r	r	r	r	r	t
	Gwynedd Council Planning Portal	Medium	National Grid enabling works	2020										58.8	52.9	ſ	f	r	ſ	r	ſ	r	r	1	ſ	f
SCR/2020/1 - Screening opinion for the erection of 30 dwellings (ELA not req.)	IOA CC Planning Portal	Medium	Building/housing developments	2020										60.4	53.0	ı	f	r	f	f	r	r	f	f	f	r
SCR/2019/70 - Screening opinion for the re-building of the marina (EIA reg.)	IOA CC Planning Portal	Medium	Building/housing developments	2019										60.8	53.1	ſ	ſ	r	ſ	f	ſ	r	ſ	ſ	f	f
SCO/2020/4 - Scoping opinion for a mixed-use development	IOA CC Planning Portal	Medium	Building/housing developments	2020										61.0	53.4	f	r	ſ	ſ	ſ	r	ſ	r	ſ	f	1
FPL/2019/341 - Full application for the erection of 26 dwellings	IOA CC Planning Portal		Building/housing developments	2019, granted										61.3	53.7	ſ	ſ	ſ	ſ	r	ſ	ſ	ſ	ſ	ſ	ſ
C20/0244/08/LL - Construction of tunnel head house, sealing end compound, remocal of 10 pylons	Gwynedd Council Planning Portal	Medium	National Grid enabling works	2020, submitted										59.8	54.2	ſ	ſ	ſ	ſ	r	ſ	ſ	r	ſ	r	ſ
C20/0621/35/LL - Mixed use development - restaurant, bar, small scale retail, 4 aparthotel	Gwynedd Council Planning Portal	Medium	Building/housing developments	2020, submitted										64.7	62.0	ſ	f	r	f	ſ	f	r	f	f	f	r
C19/0890/35/MG - 7 living units	Gwynedd Council Planning Portal	High	Building/housing developments	2020, granted										64.8	62.2	ſ	f	r	f	f	f	r	f	f	f	r
C20/0354/40/DA - Revision of solar farm layout/access track reduction	Gwynedd Council Planning Portal	High	Other energy generation Infrastructure	2020, granted										69.5	67.0	f	ſ	r	r	r	f	r	f	ſ	f	ſ
C20/0130/40/LL - Removal of treatment tanks and installation of aeration, chemical and sludge storage tanks	Gwynedd Council Planning Portal	High	Building/housing developments	2020, granted										69.5	67.2	f	r	r	ſ	ſ	r	r	ſ	ſ	f	r
C19/1197/02/LL - 11 touring units	Gwynedd Council Planning Portal	Medium	Building/housing developments	2019, submitted										79.6	70.3	f	ſ	r	r	ſ	f	r	f	ſ	f	r i
C19/0858/45/LL - 3 storey residential buildings - 56 units	Gwynedd Council Planning Portal	High	Building/housing developments	2019, granted										74.5	72.2	ſ	ſ	r	ſ	f	ı	r	f	1	f	r
C19/1174/42/LL - 6 dwellings	Gwynedd Council Planning Portal	Medium	Building/housing developments	2020, submitted										76.5	73.1	ſ	ſ	r	ſ	f	ı	r	f	1	f	r
C19/1204/39/LL 6 holiday let apartments	Gwynedd Council Planning Portal	Medium	Building/housing developments	2020, submitted										83.8	81.4	r	f	ſ	f	ſ	r	f	f	f	f	F
Future Wales: The National Plan (2040) - Pre-Assessed Areas for Wind Energy no. 1 and no. 2	Denbighshire Consultation Response	High	Other energy generation Infrastructure	N/A										111.402094	105.4											
C19/0950/21/LL - 30 dwellings	Gwynedd Council Planning Portal	Medium	Building/housing developments	2020, submitted										153.4	145.8	f	ſ	ſ	f	f	f	r	f	ſ	f	f

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