

Marine Licence with introductory note

The Marine and Coastal Access Act (2009)

Licence Holder: Awel y Môr Offshore
Windfarm Ltd

Company Number 12270928

Windmill Hill Business Park
Whitehill Way
Swindon
Wiltshire
SN5 6PB

Awel y Môr Offshore Windfarm Generation
Assets

Licence Number:
ORML2233G

Licence Number: ORML2233G

Awel y Môr Offshore Windfarm generation assets consisting of up to 50 wind turbine generators fixed to the seabed.

Marine Licence number: ORML2233G

Introductory note

This introductory note does not form a part of the marine licence

The main features of the marine licence are as follows:

Awel y Môr Offshore Windfarm generation assets consisting of up to 50 wind turbine generators fixed to the seabed.

The status log of the marine licence sets out the marine licence history, including any subsequent marine licence variation(s)

Status log of this marine licence		
Description	Date	Comments
Application	Duly made on 20 June 2022	Application received and considered to be duly made
Date licence determined	15 November 2023	Determination date

Related marine licences or applications under determination

Marine Licence or Application Number	Date	Comments
ORML2233T	Issued 15 November 2023	Marine Licence for the transmission asset of the Awel y Môr offshore windfarm project
ORML2233L	Issued 15 November 2023	Marine Licence for the connection between Awel y Môr and the Gwynt y Môr offshore windfarm
ORML2233C	Issued 15 November 2023	Marine Licence for directional drilling and cable laying under the Clwyd Estuary.

End of introductory note.

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MARINE LICENCE, NUMBER ORML2233G

1 LICENCE DETAILS

1.1 Marine Licence

This is a licence granted by the Licensing Authority in respect of an application numbered **ORML2233** and duly made on **20 June 2022** and authorises the Licence Holder to carry on activities for which a licence is required under Part 4 of the Marine and Coastal Access Act 2009, (2009 Act). This licence should be interpreted in accordance with **Section 4**.

1.2 Licence Holder

The Licence Holder is the company set out below:

Company name: Awel y Môr Offshore Windfarm Ltd

Company number: 12270928

Address: Windmill Hill Business Park, Whitehill Way, Swindon, Wiltshire, SN5 6PB

1.3 Licence Validity

Licence Start Date	15 November 2023
Licence End Date	31 December 2065
Licence Issue Date	15 November 2023

1.4 Conditions

This licence is subject to the conditions set out in **Section 3**.

Signed:



Dr. Emmer Litt – Marine Licensing Team Leader

For and on behalf of the Licensing Authority

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2 LICENSED ACTIVITIES

2.1 Project

Construction, Maintenance and Decommissioning of Awel y Môr Offshore Windfarm generation assets consisting of:

- Up to 50 wind turbine generators fixed to the seabed by a foundation
- Up to 2 offshore substation platforms each fixed to the seabed by a foundation
- one meteorological mast fixed to the seabed by a foundation
- Floating buoys
- A network of subsea inter-array cables including cable crossings and cable protection

The following Licensed Activities can be conducted within the Licence Period, within the Licensed Area and in accordance with the Approved Application and the Approved Supporting Documents.

Table 1 Licensed Activities

Activity 1 Installation, operation, maintenance and decommissioning of Wind Turbine Generators, met mast, offshore substation platform, and inter-array cables	
Type of Licensed Activity	Deposit/Removal/Construction
Description	<p>Construction, operation, maintenance and subsequent decommissioning of:</p> <ul style="list-style-type: none">• an offshore wind turbine generating station with a gross electrical output capacity of over 350 megawatts, comprising up to 50 wind turbine generators fixed to the seabed by a foundation.• one meteorological mast fixed to the seabed by a foundation.• up to two offshore substation platforms each fixed to the seabed by a foundation.• markings, lights and buoys, beacons, fenders and other navigational warning or ship impact protection works as required for aviation and navigational safety.• a network of subsea inter-array cables including cable crossing and cable protection. <p>In connection with the above the following licensable activities may be carried out in line with the scope assessed by the Environmental Statement:</p>

	<ul style="list-style-type: none"> • scour protection around the foundations of the offshore structures; • cable protection measures such as rock placement and the placement of rock and/or concrete mattresses, with or without frond devices; • cable installation seabed preparation or seabed preparation for foundations including pre-lay grapnel runs, sandwave and boulder clearance, and Mass or Controlled Flow Excavation; • creation and use of temporary vessel laydown areas, use of cable anchors; • dredging; • removal of static fishing equipment; and • marking buoys and lighting.
Material types to be removed or deposited	<p>(a) iron and steel, copper and aluminium</p> <p>(b) stone and rock</p> <p>(c) concrete</p> <p>(d) sand and gravel</p> <p>(e) plastic and synthetic</p> <p>(f) material extracted during construction drilling or seabed preparation for foundation works and cable preparation works</p> <p>(g) marine coatings, other chemicals and timber</p>
Quantities/Dimensions	<p>The offshore works must be constructed in accordance with the parameters assessed in the Environmental Statement, as detailed within Category 6: Environmental Statement <i>Volume 2, Chapter 1 : Offshore Project Description Revision B</i> submitted 31 May 2022; <i>Marine Licence Parameters Revision A</i> document dated 30 January 2023, and as set out in Appendix 1.</p>
Activity 2 Ground investigation works	
Type of Licensed Activity	Removal
Description	<p>The removal of sediment samples for the purposes of informing environmental monitoring under this licence during pre-construction, construction, operation and decommissioning in line with the approved Environmental Monitoring Plan detailed in condition 3.32.</p>

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Material types to be removed or deposited	Seabed sediment - Stone/rock/sand/gravel
Activity 3 Removal of accidentally dropped objects pursuant to condition 3.7	
Type of Licensed Activity	Removal
Description, material types and quantities/dimensions	As approved by the Licensing Authority under condition 3.7

Table 2 Disposal Activities

Activity 4 Disposal to Designated Disposal Site IS067			
Marine Licensable Activity Type	Disposal		
Description	Source of inert material of natural origin and/or dredged material produced during construction and seabed preparation works detailed in Table 1. Methods of dredging such as Trailing Suction Hopper Dredge and backhoe dredging.		
Maximum Dredge Depth	5m below Chart Datum		
Maximum volume and tonnage of material to be disposed under this licence	Sampled Specific Gravity	m ³	Tonnage
	2	10,276,843	20,553,686
Designated Disposal Site	Site Code: IS067		Site Name: Awel y Môr
Material Type	Sand/Gravel/Silt/Clay, as described in the application form submitted June 2022 and Disposal site Characterisation submitted 31 May 2022.		

2.2 Licensed Area

The Licence Holder is authorised to conduct the activities described in Table 1 seaward of the north-east coast of Wales bounded by the coordinates specified in Table 3 and as indicated in the plan attached at Appendix 2 subject to the restriction set out below in relation to areas defined in Table 4 and 5:

Table 3 Coordinates

Latitude	Longitude
53.4347	-3.7147
53.4340	-3.7163
53.4341	-3.7160
53.4335	-3.7174
53.4333	-3.7179
53.4331	-3.7185
53.4328	-3.7190
53.4326	-3.7196
53.4324	-3.7202
53.4321	-3.7207
53.4319	-3.7213
53.4317	-3.7218
53.4312	-3.7229
53.4308	-3.7241
53.4303	-3.7252
53.4248	-3.7385
53.4217	-3.7460
53.4326	-3.7983
53.4452	-3.8592
53.4460	-3.8630
53.4484	-3.8745
53.4608	-3.8748
53.4688	-3.8636
53.4847	-3.8641
53.4857	-3.8641
53.4874	-3.8641
53.4880	-3.8641
53.4880	-3.8623
53.4880	-3.8604
53.4907	-3.6105
53.4853	-3.6269
53.4783	-3.6467
53.4754	-3.6550
53.4681	-3.6756
53.4597	-3.6835
53.4593	-3.6839
53.4505	-3.6921
53.4482	-3.6897
53.4471	-3.6886
53.4460	-3.6874
53.4456	-3.6882
53.4453	-3.6890
53.4438	-3.6926
53.4428	-3.6951
53.4425	-3.6957
53.4410	-3.6993
53.4400	-3.7018
53.4393	-3.7035
53.4380	-3.7067
53.4377	-3.7073
53.4375	-3.7079

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53.4372	-3.7084
53.4370	-3.7090
53.4366	-3.7099
53.4364	-3.7106
53.4360	-3.7115
53.4356	-3.7123
53.4353	-3.7131
53.4347	-3.7147

Restricted Areas

Other Windfarm Infrastructure Zone – No Wind Turbine Generators or Offshore Substation Platforms are authorised to be constructed within the area bounded by the co-ordinates specified in Table 4. Other infrastructure including meteorological mast, permanent vessel moorings and inter-array cables may be deployed in this area.

Table 4 Other Windfarm Infrastructure Zone

Latitude	Longitude
53.460800	-3.874803
53.471430	-3.859940
53.455929	-3.859528
53.445938	-3.859263
53.445509	-3.859251
53.445229	-3.859244
53.445230	-3.859249
53.445232	-3.859259
53.445234	-3.859271
53.445237	-3.859283
53.445239	-3.859293
53.445240	-3.859299
53.445628	-3.861191
53.446788	-3.866855
53.448382	-3.874468

Subsea Infrastructure and Temporary Works Area – No Wind Turbine Generators or Offshore Substation Platforms are authorised to be constructed within the area bounded by the co-ordinates specified in Table 5. Cables are authorised to be located within this area in addition to temporary works associated with construction, maintenance and decommissioning of the array.

Table 5 Subsea Infrastructure and Temporary Works Area

Latitude	Longitude
53.446327	-3.863037
53.487981	-3.864149
53.488026	-3.860382
53.477327	-3.860097
53.466627	-3.859813
53.455929	-3.859528

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53.445229	-3.859244
53.445230	-3.859250
53.445233	-3.859265
53.445238	-3.859289
53.445240	-3.859298
53.445618	-3.861122
53.446011	-3.863022

The Licence Holder is authorised to conduct the disposal activities described in Table 2 within the area bounded by the coordinates specified in Table 6.

Table 6 Permitted Disposal Site

Disposal Site [IS067]	
Latitude	Longitude
53.488026	-3.860382
53.490742	-3.610469
53.485303	-3.626856
53.478308	-3.646665
53.475379	-3.654959
53.468059	-3.675631
53.450518	-3.692121
53.445960	-3.687364
53.421681	-3.745937
53.432573	-3.798259
53.445229	-3.859244
53.445232	-3.859244
53.466627	-3.859813

In the event of any discrepancy between the coordinates set out above and the plan attached at Appendix 2, the coordinates shall take precedence.

2.3 Approved Supporting Documents

Title/Description of Document	Date Submitted
Marine Licence Application Form Final update - 160622	17 June 2022
Category 6: Environmental Statement Volume 2, Chapter 1 : Offshore Project Description Revision B	31 May 2022
Marine Licence Plan Area Maps – Document Reference ML-2.13	31 May 2022
Schedule of Mitigation and Monitoring Deadline 8 Date 15 March 2023 Revision G. Document Reference 8.12	22 March 2023
Marine Licence Parameters Revision A	30 January 2023

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Disposal Site Characterisation Revision A	31 May 2022
Category 6: Environmental Statement Volume 4 Annex 9.1 Navigational Risk Assessment	31 May 2022

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3 CONDITIONS

Notification and Inspection

3.1 Notification of Commencement

- 3.1.1** The Licence Holder must notify the Licensing Authority no less than **10 days** before the commencement of the Licensed Activities, or an individual phase of the Licensed Activities, is expected to commence.
- 3.1.2** The Licence Holder must notify Welsh Government Marine & Fisheries Division (Control & Enforcement Branch) no less than **10 days** before the commencement of the Licensed Activities, or an individual phase of the Licensed Activities, is expected to commence.
- 3.1.3** The Licence Holder must ensure that local mariners and fishermen's organisations, HM Coastguard and UKHO are made fully aware of the Licensed Activities through local notices to mariners **10 days** prior to the commencement of the Licensed Activities, or an individual phase of the Licensed Activities is expected to commence. The notice should detail the start date of the works and expected vessel routes from the port to the location.
- 3.1.4** The Licence Holder must ensure that local notifications to marine users are updated and reissued at weekly intervals while construction activities are ongoing and at least **5 days** before any planned operations and maintenance works. This must be supplemented with VHF radio broadcasts agreed with the Maritime and Coastguard Agency.
- 3.1.5** The Licence Holder must notify The Kingfisher Information Service of Seafish no less than **14 days** prior to the commencement of the Licensed Activities, or an individual phase of the Licensed Activities, is expected to commence. The notice should detail the start date of the works and expected vessel routes from the port to the location.
- 3.1.6** The Licence Holder must notify the Defence Geographic Centre, at least **14 days** prior to the commencement of Licences Activities, or an individual phase of the Licensed Activities is expected to commence, in writing of the following information:
- i. the date of the commencement of construction of the authorised project
 - ii. the date any offshore electrical installations are brought into use, and
 - iii. the maximum height of any construction equipment to be used.

3.2 Notification of Vessels and/or Vehicles

The Licence Holder must ensure that the details of the vessels and/or vehicles utilised to undertake the Licensed Activities are submitted to the Licensing Authority and Welsh Government Marine & Fisheries Division (Control & Enforcement Branch) at least **24 hours** prior to the commencement of the Licensed Activities.

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3.3 Notification of Agents/Contractors/Sub-contractors

The Licence Holder must ensure that details of any agent(s), contractor(s) or sub-contractor(s) utilised to undertake the Licensed Activities are submitted to the Licensing Authority at least **24 hours** prior to the commencement of Licensed Activities.

3.4 Notification of HM Coastguard

The Licence Holder must ensure that HM Coastguard is made aware of the Licensed Activities at least **24 hours** prior to commencement by contacting The National Maritime Operations Centre at zone32@hmcg.gov.uk and renewables@hmcg.gov.uk.

3.5 Inspection of Licensed Activities

The Licence Holder must allow Marine Enforcement Officers or any other person authorised by the Licensing Authority to inspect the Works at any reasonable time.

3.6 Notification of Completion

3.6.1 The Licence Holder must notify the Licensing Authority within **10 days** of completion of the Licensed Activities, or an individual phase of the Licensed Activities.

3.6.2 The Licence Holder must notify Welsh Government Marine & Fisheries Division (Control & Enforcement Branch) within **10 days** of completion of the Licensed Activities, or an individual phase of the Licensed Activities.

3.6.3 The Licence Holder must notify the UK Hydrographic Office of the Licensed Area and the Licensed Activities within **10 days** of the completion of the Licensed Activities or an individual phase of the Licensed Activities.

3.6.4 The Licence Holder must notify The Kingfisher Information Service of Seafish as soon as reasonably practicable and no later than **24 hours** after completion of the Licensed Activities or an individual phase of the Licensed Activities.

3.7 Accident or Emergency

3.7.1 If, by reason of force majeure any substances or articles are deposited otherwise than as permitted as part of the Licensed Activities or in the Licensed Area full details of the circumstances shall be notified to the Licensing Authority, Trinity House and the Maritime and Coastguard Agency within **48 hours** of the incident occurring.

3.7.2 If it is necessary for the Licence Holder to recover or remove any equipment, plant or machinery used to undertake the Licensed Activities that have been dropped as a result of an accident or emergency, the Licence Holder is permitted to do so provided that the methodology for such recovery or removal has been approved by the Licensing Authority.

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3.7.3 The Licence Holder must submit a Dropped Object Plan (DOP) to the Licensing Authority for written approval at least **4 months** prior to commencement of Licensed Activities. No Licensed Activities may be undertaken prior to written approval from the Licensing Authority.

3.7.4 The Licence Holder must ensure that any actions outlined in the DOP detailed in condition 3.7.3 are implemented as approved in writing by the Licensing Authority. Any proposed changes to the action outlined in the document must be submitted to, and approved in writing by the Licensing Authority prior to any changes being enacted.

3.8 Distribution of Copies of this Licence

The Licence Holder is required to ensure that a copy of this Licence is given to:

- All agent(s), contractor(s) and sub-contractor(s) whose names have been provided to the Licensing Authority under condition 3.3 and
- The Masters of any vessels and transport managers responsible for the vehicles employed in accordance with this Licence whose details have been submitted to the Licensing Authority under condition 3.2.

3.9 Inspection of Documents

Copies of this Licence shall be made available at the following locations:

- at the address of the Licence Holder specified in section 1.2;
- at any site office, located at or adjacent to the Licensed Area, used by the Licence Holder or its agent(s), contractor(s) or sub-contractor(s) responsible for the loading transportation or deposit of any substances or articles permitted as part of the Licensed Activities;
- on board each vessel or vehicle carrying out Licensed Activities.

The documents referred to in this Condition shall be available at all reasonable times for inspection by officers appropriately authorised by the Licensing Authority and authorised Marine Enforcement Officers at the locations stated in that paragraph.

Vessels, Plant and Equipment

3.10 Notified Contractors, Vessels and/or Vehicles only to Carry out Licensed Activities

Only those agent(s), contractor(s), sub-contractor(s), vessels and/or vehicles whose details have been notified to the Licensing Authority may operate under the terms of this Licence. Any changes must be notified to the Licensing Authority and Welsh Government Marine & Fisheries Division (Control & Enforcement Branch) in writing prior to any such agent, contractor, subcontractors or vehicles carrying out any Licensed Activities pursuant to or otherwise operating under this Licence.

3.11 Equipment, Structures and Access

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The Licence Holder must ensure that all equipment, temporary structures, access tracks, waste and/or debris associated with the Licensed Activities are removed on completion of the Licensed Activities.

Safety

3.12 Removal of Deposited Material

If the Licensing Authority considers it necessary or advisable for the safety of navigation, the Licence Holder must remove any deposit specified by the Licensing Authority or Marine Enforcement Officers within one month of notice being given by the Licensing Authority, or as otherwise agreed, and shall not replace such material until the Licensing Authority has given its written approval.

Pollution control

3.13 Pollution Prevention

The Licence Holder must ensure that pollution prevention best practice is adhered to at all times. Any incidents must be reported to the Licensing Authority as soon as possible using the hotline number **0300 065 3000**.

3.14 Spillage of Pollutants

The Licence Holder must employ bunding, storage facilities and spill kits to contain and prevent the release of fuel, oils and chemicals associated with the plant, refuelling and construction equipment into the marine environment. Secondary containment must be used with a capacity of **no less than 110%** of the container's storage capacity

3.15 Prevention of Disposal of Man-made Debris

The Licence Holder must ensure that all reasonable precautions are taken to prevent the disposal of man-made debris to the marine environment. Such material must be removed immediately and be disposed of appropriately.

Activity-specific Conditions

3.16 Project Parameters

3.16.1 The Licence Holder must ensure the Licensed Activities fall within the parameters detailed within Category 6: Environmental Statement *Volume 2, Chapter 1: Offshore Project Description Revision B* submitted 31 May 2022, detailed within *Marine Licence Parameters Revision A* document dated 30 January 2023, and as set out in Appendix 1.

3.16.2 No Works relating to the Offshore Substation Platform shall be carried out until the Licensing Authority has given written approval.

3.17 Cable Specification and Installation Plan

3.17.1 The Licence Holder must submit a Cable Specification and Installation Plan (CSIP) to the Licensing Authority for written approval at least **4 months** prior to commencement of the cable construction and deposit works outlined in Table 1 or an individual phase of cable construction and deposit work. No deposit of cable and cable protection may be undertaken prior to written agreement from the Licensing Authority. The CSIP must include the following information unless otherwise approved by the Licensing Authority (parameter envelopes should be provided if necessary):

- i. Technical specifications;
- ii. Location, including outlines of cable crossings, burial, and surface laid sections;
- iii. Timings, including duration of works;
- iv. Burial risk assessment to ascertain burial depths and cable laying techniques including cable protection. The assessment should identify any cable protection that exceeds 5% of navigable depth referenced to chart datum. In the event that any area of cable protection exceeding 5% of navigable depth is identified, the details of any steps to be taken to ensure existing and future safe navigation is not compromised, should be presented;
- v. Proposed locations, types, and quantities of cable protection to be deposited;
- vi. Installation and cable laying techniques;
- vii. Cable crossing armouring methodology;
- viii. Installation machinery failure contingency plan;
- ix. Transport management plan;
- x. Location, type, and quantity of any wet-stored cabling and/or cable protection and the proposed duration of the wet storage;
- xi. Proposals for monitoring offshore cables including cable protection during the operational lifetime of the authorised scheme which includes a risk based approach to the management of unburied or shallow buried cables, and
- xii. Specific consideration to be given to the choice of cable protection material that can be demonstrated to maximise environmental biodiversity benefits, whilst meeting technical need.

3.17.2 The Licence Holder must ensure that any actions outlined in the CSIP detailed in condition 3.17.1 are implemented as approved in writing by the Licensing Authority. Any proposed changes to the actions outlined in the documents must be submitted to, and approved in writing by the Licensing Authority prior to any changes being enacted.

3.18 Programme of Works

3.18.1 The Licence Holder must submit a Programme of Works for each individual phase of the Licensed Activities to the Licensing Authority for written approval at least **4 months** prior to commencement. No Licensed Activities may be undertaken prior to written approval from the Licensing Authority.

3.18.2 The Programme of Works for each individual phase of the Licensed Activities must include:

- i. The planned timetable for each of the Licensed Activities.
- ii. A plan for notifying the Licensing Authority, Maritime and Coastguard Agency and Trinity House of the commencement and completion of each phase of licensed activities and of any changes to the planned timetable.
- iii. A full list of materials to be deposited and removed from the marine environment.

3.18.3 The Licence Holder must ensure that any actions outlined in the Programme of Works detailed in condition 3.18.1 are implemented as approved in writing by the Licensing Authority. Any proposed changes to the actions outlined in the documents must be submitted to, and approved in writing by the Licensing Authority prior to any changes being enacted.

3.19 Operations and Maintenance Plan (OMP)

3.19.1 The Licence Holder must submit a OMP to the Licensing Authority for written approval at least **4 months** prior to operation of wind turbines. Operation may not commence prior to written approval from the Licensing Authority. The OMP must include detail of the methodology for operation and maintenance of infrastructure, and must include a timescale for the periodic review of the document.

3.19.2 The Licence Holder must ensure that any actions outline in the OMP detailed in condition 3.19.1 are implemented as approved in writing by the Licensing Authority. Any proposed changes to the actions outlined in the documents must be submitted to, and approved in writing by the Licensing Authority prior to any changes being enacted.

3.20 Installed Cable Report

3.20.1 The Licence Holder must provide to the Licensing Authority the following information within **4 months** of completion of the Licensed Activities for written approval:

- i. The final locations (in WGS84) and technical specifications of the cables;
- ii. The final locations (in WGS84) of buried and surface-laid sections of the cables;
- iii. The final locations (in WGS84), types, and quantities of cable protection used, deposited, or installed, and
- iv. Identification of potential dangers to navigation.

3.20.2 In the event that any potential danger to navigation is identified following the completion of the Licensed Activities, the Licence Holder must propose measures to ensure the safety of navigation in writing to the Licensing Authority for written approval. The measures must be implemented as approved by the Licensing Authority.

3.21 Post Construction As-Built Report

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3.21.1 The Licence Holder must provide to the Licensing Authority the following information within **4 months** of completion of the Licensed activity for written approval:

- i. Confirmation of construction completion date;
- ii. Final number of installed wind turbine generators;
- iii. As built plans;
- iv. Latitude and longitude coordinates of the centre point of the location for each wind turbine generator and offshore platform, substation, and meteorological mast provided as Geographical Information System data referenced to WGS84) datum
- v. Latitude and longitude coordinates of the inter array; provided as Geographical Information System data referenced to WGS84 datum.

3.21.2 In the event that any potential danger to navigation is identified following the completion of the Licensed Activities, the Licence Holder must propose measures to ensure the safety of navigation in writing to the Licensing Authority for written approval. The measures must be implemented as approved by the Licensing Authority.

3.22 Project Environmental and Management Plan (PEMP)

3.22.1 The Licence Holder must submit a PEMP to the Licensing Authority for written approval at least **6 weeks** prior to commencement of the Licensed Activities. The PEMP must include a Marine Pollution Contingency Plan. No Licensed Activities may be undertaken prior to written approval from the Licensing Authority.

3.22.2 The Licence Holder must ensure that any actions outlined in the PEMP detailed in condition 3.22.1 are implemented as approved in writing by the Licensing Authority. Any proposed changes to the actions outlined in the documents must be submitted to, and approved in writing by the Licensing Authority prior to any changes being enacted.

3.23 Project Layout Plan

3.23.1 The Licence Holder must submit a Project Layout Plan to the Licensing Authority for written approval at least **6 months** prior to the commencement of the Licensed Activities. No Licensed Activities may be undertaken prior to written approval from the Licensing Authority. The plan should set out the proposed details of the authorised project, including:

- i. the number, dimensions, specification, foundation type(s) and depth for each WTG, offshore substation platforms, and meteorological masts;
- ii. the grid coordinates of the centre point of the proposed location for each WTG, offshore substation platforms, and meteorological masts;
- iii. proposed layout of all cables; and
- iv. location and specification of all other aspects of the authorised project.

3.23.2 The Licence Holder must ensure that any actions outlined in the Project Layout Plan detailed in condition 3.23.1 are implemented as approved in writing by the Licensing Authority. Any proposed changes to the action outlined in the documents must be submitted to, and approved in writing by the Licensing Authority prior to any changes being enacted.

3.24 Lighting and Marking

3.24.1 The Licence Holder must submit a Lighting and Marking Plan to the Licensing Authority for written approval at least **4 months** prior to commencement of the Licensed Activities or an individual phase of Licenced Activities. No Licensed Activities may be undertaken prior to written approval from the Licensing Authority. The Lighting and Marking Plan must consider all stages of the Licensed Activities and provide details on location and specifications of all infrastructure and aspects of the Project, navigation lights and markings of infrastructure, in addition to any additional aids to navigation required.

3.24.2 The Licence Holder must ensure that any actions outlined in the Lighting and Marking Plan detailed in condition 3.24.1 are implemented as approved in writing by the Licensing Authority. Any proposed changes to the actions outlined in the documents must be submitted to, and approved in writing by the Licensing Authority prior to any changes being enacted.

3.24.3 The Licence Holder must provide reports to Trinity House on the availability of aids to navigation in accordance with the frequencies set out in the Lighting and Marking Plan using the reporting system provided by Trinity House.

3.24.4 The Licence Holder must ensure that the Licensed Activities exhibit such lights, marks, sounds, signals and other aids to navigation and to take such steps for the prevention of danger to navigation as directed by Trinity House.

3.24.5 The Licence Holder must during the whole period from the commencement of construction of the authorised project to the completion of decommissioning, notify the Licensing Authority and Trinity House of any failure of the aids to navigation and the timescales and plans for remedying such failures, as soon as possible and no later than **24 hours** following the undertaker becoming aware of any such failure.

3.24.6 The Licence Holder must exhibit such lights, with such shape, colour and character as are required by Air Navigation Order 2016 and determined necessary for aviation safety in consultation with the Defence Infrastructure Organisation Safeguarding and as directed by the Civil Aviation Authority.

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3.24.7 The Licence Holder must ensure that the lights installed in accordance with condition 3.24.6 will be operated at the lowest permissible lighting intensity level.

3.25 Navigational Safety

3.25.1 The Licence Holder must ensure a regular programme of monitoring of structure condition. In case of damage, destruction or decay of any structure or part of a structure, excluding the exposure of cables, the Licence Holder shall, as soon as possible and no later than **24 hours** after becoming aware of such damage, destruction or decay, notify Trinity House, Maritime and Coastguard Agency, Kingfisher Information Service or Seafish, UKHO and the Licensing Authority.

3.25.2 In the event of buried cables becoming exposed on or above the seabed, the Licence Holder must issue a notice to mariners and notify the Kingfisher Information Service of the location and extent of exposure no later than **3 days** following its identification. Copies of all said notices must be provided to the Licensing Authority, Trinity House and Maritime and Coastguard Agency within **5 days**.

3.25.3 No part of the Licensed Activities may commence prior to written approval from the Licensing Authority in consultation with the Maritime and Coastguard Agency that a Search and Rescue checklist has been agreed and is in place in line the requirements of MGN654 "Offshore Renewable Energy Installations *OREIs) – Guidance on UK Navigational Practice, Safety and Emergency Response (or any successor document)

3.26 Depth Reduction

The Licence Holder must ensure that any depth reductions resulting from cable protection activity do not compromise safe navigation and that there is no more than 5% reduction in surrounding depth referenced to Chart Datum at any location within the Licensed Area without prior written approval from the Licensing Authority.

3.27 Colouring of Infrastructure

The Licence Holder must colour all structures yellow (colour code RAL 1023) from at least the waterline to a height as directed by Trinity House. Unless the Licensing Authority otherwise directs, the Licence Holder must paint the remainder of the structures grey (colour code RAL 7035).

3.28 Offshore Construction Method Statement (CMS)

3.28.1 The Licence Holder must submit a CMS to the Licensing Authority for written approval at least **4 months** prior to commencement of the Licensed Activities or an individual phase of Licenced Activities. No Licensed Activities may be undertaken prior to written approval from the Licensing Authority.

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3.28.2 The Licence Holder must ensure that any actions outlined in the CMS detailed in condition 3.28.1 are implemented as approved in writing by the Licensing Authority. Any proposed changes to the actions outlined in the documents must be submitted to, and approved in writing by the Licensing Authority prior to any changes being enacted.

3.29 Biosecurity Plan

3.29.1 The Licence Holder must submit a Biosecurity Plan to the Licensing Authority for written approval at least **4 months** prior to commencement of the Licensed Activities or an individual phase of Licenced Activities. No Licensed Activities may be undertaken prior to written approval from the Licensing Authority.

3.29.2 The Licence Holder must ensure that any actions outlined in the Biosecurity Plan detailed in condition 3.29.1 are implemented as approved in writing by the Licensing Authority. Any proposed changes to the actions outlined in the documents must be submitted to, and approved in writing by the Licensing Authority prior to any changes being enacted.

3.30 Vessel Traffic Management Plan

3.30.1 The Licence Holder must submit a Vessel Traffic Management Plan to the Licensing Authority for written approval at least **4 months** prior to commencement of the Licensed Activities. No Licensed Activities may be undertaken prior to written approval from the Licensing Authority.

3.30.2 The Licence Holder must ensure that any actions outlined in the Vessel Traffic Management Plan detailed in condition 3.30.1 are implemented as approved in writing by the Licensing Authority. Any proposed changes to the actions outlined in the documents must be submitted to, and approved in writing by the Licensing Authority prior to any changes being enacted.

3.31 Marine Mammal Mitigation Protocol

3.31.1 The Licence Holder must submit a Marine Mammal Mitigation Protocol to the Licensing Authority for written approval at least **4 months** prior to commencement of piling activities. No Licensed Activities may be undertaken prior to written approval from the Licensing Authority.

3.31.2 The Licence Holder must ensure that any actions outlined in the Marine Mammal Mitigation Protocol detailed in condition 3.31.1 are implemented as approved in writing by the Licensing Authority. Any proposed changes to the actions outlined in the documents must be submitted to, and approved in writing by the Licensing Authority prior to any changes being enacted.

3.32 Environmental Monitoring Plan

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3.32.1 The Licence Holder must submit an Environmental Monitoring Plan (EMP) including the specification of the Pre-construction, construction and Post construction Monitoring to the Licensing Authority for written approval. No Licensed Activities may be undertaken prior to written approval from the Licensing Authority.

The EMP must include, but not limited to, specification for:

- i. monitoring, including methodologies and timings;
- ii. physical and ecological pre- and post- construction monitoring surveys to take place across the construction area;
- iii. monitoring surveys designed to ensure minimal disturbance to, and loss of key benthic habitats and species during the construction including the identification of areas for micro-sitting where possible;
- iv. underwater noise monitoring to measure noise generated from piled foundations;
- v. ornithological monitoring plan, and
- vi. timetable for related reporting.

3.32.2 The Licence Holder must ensure that any actions outlined in the EMP detailed in condition 3.32.1 are implemented as approved in writing by the Licensing Authority. Any proposed changes to the actions outlined in the documents must be submitted to, and approved in writing by the Licensing Authority prior to any changes being enacted.

3.32.3 The pre-construction monitoring EMP required under condition 3.32.1 must be submitted to the Licensing Authority for written approval at least **4 months** before surveys commence.

3.32.4 The construction monitoring EMP required under condition 3.32.1 must be submitted to the Licensing Authority for written approval at least **4 months** prior to construction.

3.32.5 The post construction monitoring EMP required under condition 3.32.1 must be submitted to the Licensing Authority for written approval at least **4 months** prior to operation of the Wind Turbine Generators.

3.32.6 The Licence Holder must submit environmental monitoring reports for approval to the Licensing Authority in accordance with the timetable approved within the EMP.

3.33 UK Marine Noise Registry

3.33.1 The Licence Holder must complete an entry into the UK Marine Noise Registry detailing the proposed dates and locations and nature of the Impact Pile Driving Activities at least **10 days** prior to its commencement.

3.33.2 The Licence Holder must amend the marine noise registry proposed activity form should the timing of the Impact Pile Driving alter or no longer remain part of the project.

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3.33.3 The Licence Holder must complete an entry into the Marine Noise Registry detailing the actual dates, location(s) and nature of the Impact Pile Driving every **6 months** following the commencement of Impact Pile Driving until the completion of Impact Pile Driving with the final entry to be completed within **8 weeks** of completion of the noisy activity.

3.34 Scour Protection Management Plan

3.34.1 The Licence Holder must submit a Scour Protection Management Plan to the Licensing Authority for written approval at least **4 months** prior to commencement of any Licensed Activities or an individual phase of Licenced Activities. No Licensed Activities may be undertaken prior to written approval from the Licensing Authority.

3.34.2 The Licence Holder must ensure that any actions outlined in the Scour Protection Management Plan detailed in condition 3.34.1 are implemented as approved in writing by the Licensing Authority. Any proposed changes to the actions outlined in the documents must be submitted to, and approved in writing by the Licensing Authority prior to any changes being enacted.

3.35 Marine Archaeology

3.35.1 The Licence Holder must submit a Protocol for Archaeological Discoveries (PAD) to the Licensing Authority for written approval at least **4 months** prior to commencement of any Licensed Activities or an individual phase of Licenced Activities. No Licensed Activities may be undertaken prior to written approval from the Licensing Authority.

3.35.2 The Licence Holder must ensure that any actions outlined in the PAD detailed in condition 3.35.1 are implemented as approved in writing by the Licensing Authority. Any proposed changes to the actions outlined in the documents must be submitted to, and approved in writing by the Licensing Authority prior to any changes being enacted.

3.35.3 The Licence Holder must submit an Offshore Written Scheme of Investigation (Offshore WSI) to the Licensing Authority for written approval at least **4 months** prior to commencement of any Licensed Activities or an individual phase of Licenced Activities. The Offshore WSI must be in accordance with the outline Offshore WSI (Application Reference 8.3 Outline Offshore Archaeological Written Scheme of Investigation). No Licensed Activities may be undertaken prior to written approval from the Licensing Authority. The Offshore WSI must detail the archaeological assessment and mitigation works offshore and within the inter-tidal area including providing the position and extent of Archaeological Exclusion Zones and establish methods for their monitoring.

3.35.4 The Licence Holder must ensure that any actions outlined in the Offshore WSI detailed in condition 3.35.3 are implemented as approved in writing by the Licensing Authority. Any proposed changes to the

actions outlined in the documents must be submitted to, and approved in writing by the Licensing Authority prior to any changes being enacted.

3.36 Fisheries Co-Existence and Liaison Plan

3.36.1 The Licence Holder must submit a Fisheries Co-Existence and Liaison Plan to the Licensing Authority for written approval at least **4 months** prior to commencement of the Licensed Activities or an individual phase of Licenced Activities. No Licensed Activities may be undertaken prior to written approval from the Licensing Authority.

3.36.2 The Licence Holder must ensure that any actions outlined in the Fisheries Co-Existence and Liaison Plan detailed in condition 3.36.1 are implemented as approved in writing by the Licensing Authority. Any proposed changes to the actions outlined in the documents must be submitted to, and approved in writing by the Licensing Authority prior to any changes being enacted.

3.37 Chemical Risk Assessment (CRA)

The Licence Holder must produce and implement a CRA report. The Licence Holder must ensure that the CRA report is available for inspection at all reasonable times at the location detailed in paragraph 3.9 by the Licensing Authority and/or Marine Enforcement Officers.

The CRA must include details of:

- i. how and when chemicals are used, stored and transported;
- ii. best practice guidelines for the equipment/techniques used, and
- iii. an assessment of the integrity of the equipment and the risk of spills.

3.38 Navigation Monitoring Specification

3.38.1 The Licence Holder must ensure that a Navigation Monitoring Specification for pre-construction and post construction navigation monitoring survey is submitted to the Licensing Authority for written approval at least **4 months** prior to commencement of any Licensed Activities or an individual phase of Licenced Activities. No Licensed Activities may be undertaken prior to written approval from the Licensing Authority. Unless otherwise approved by the Licensing Authority, the Navigation Monitoring Specification must include but not limited to:

- i. Detailed swath bathymetric survey to IHO Order 1a of the Licensable Area extending to appropriate buffer around the site.
- ii. All proposed cable routes.
- iii. Vessel traffic monitoring by automatic identification system (AIS) for the duration of the construction period and for three consecutive years following the completion of the construction of the authorised project, unless otherwise agreed with the Licensing Authority.

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- iv. Detail of the programme/timetable of monitoring and reporting.
- v. Proposals for monitoring offshore cables including cable protection during the operational lifetime of the authorised scheme which includes a risk based approach to the management of unburied or shallow buried cables.
- vi. Compliance with MGN 654 (Safety of Navigation: Offshore Renewable Energy Installations (OREIs) - Guidance on UK Navigational Practice, Safety and Emergency Response), (or any successor document) and its supporting 'Hydrographic Guidelines for Offshore Renewable Energy Developer including the submission of full density data and reports to the Maritime and Coastguard Agency and the UK Hydrographic Office for the update of nautical charts and publications.

3.38.2 The Licence Holder must ensure that any actions outlined in the Navigation Monitoring Specifications detailed in condition 3.38.1 are implemented as approved in writing by the Licensing Authority. Any proposed changes to the actions outlined in the documents must be submitted to, and approved in writing by the Licensing Authority prior to any changes being enacted.

3.38.3 The Licence Holder must submit a report to the Licensing Authority for written approval in line with timetable agreed in the Navigation Monitoring Specification.

3.38.4 In accordance with condition 3.38.1, the Licence Holder must complete hydrographic surveys of the Licensed Area, or subsections thereof, to the IHO Order 1a survey standard. On completion of these surveys the results and corresponding report of surveys must be submitted to the UK Hydrographic Office, with notification to the Maritime and Coastguard Agency.

3.39 Disposal Returns

3.39.1 Certified returns of quantities of substances or articles deposited under this Licence are required to be submitted in writing to the Licensing Authority by **31 January** and **31 July** each year. The returns must specify the full Licence number and amount deposited (tonnage) each calendar month at each authorised Deposit Area. Where no deposit is made in a given period a NIL return is required.

3.39.2 If this Licence expires during the course of the calendar year and is not superseded by a further Licence relating to the Licensed Activities, a certified return of quantities of substances or articles deposited under this Licence shall be submitted in writing to the Licensing Authority not later than **28 working days** after the Licence End Date.

3.40 Inspection of Disposal Vessel

Subject to meeting any mandatory health and safety obligations, the Licence Holder must provide, at reasonable notice, access and, if necessary, appropriate transportation to the disposal vessel to facilitate any inspection that

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the Licensing Authority, or Marine Enforcement Officers consider may be necessary.

3.41 Record of Quantity of Disposed Material

The Licence Holder must keep a written log of Disposal Activities at the Designated Disposal Site as described in Table 2. This log must be available for inspection by appropriately authorised officers of the Licensing Authority and Marine Enforcement Officers. The Log must contain the following information:

- the name of the vessel;
- the quantity and type of each substance disposed at sea;
- the date and time of Disposal Activities, and
- latitude and longitude position (in WGS84) of the deposit within the Designated Disposal Site.

3.42 Decommissioning Programme

3.42.1 The Licence Holder must submit a Decommissioning Programme for the approval of the Licensing Authority at least **4 months** prior to commencement of any Licensed Activities or an individual phase of Licensed Activities.

3.42.2 The Decommissioning Programme must include a timetable and decommissioning method statement. No Licensed Activities may be undertaken prior to written approval from the Licensing Authority.

3.42.3 The Licence Holder must review and submit an updated Decommissioning Programme for the approval of the Licensing Authority at least **4 months** prior to any decommissioning work taking place. No decommissioning work can take place prior to written approval from the Licensing Authority.

3.42.4 The Licence Holder must ensure that any actions outlined in the Decommissioning Programme detailed in condition 3.42.3 are implemented as approved in writing by the Licensing Authority. Any proposed changes to the actions outlined in the documents must be submitted to, and approved in writing by the Licensing Authority prior to any changes being enacted.

3.42.5 The Licence Holder must ensure that all Wind Turbine Generators, cables and associated structures are decommissioned prior to the Licence End Date unless otherwise approved by the Licensing Authority.

3.42.6 Post Decommissioning the Licence Holder must conduct a swath bathymetric survey of the cable route and the installed generating assets area and provide the data and survey report(s) to the Maritime and Coastguard Agency and UK Hydrographic Office.

3.43 Compliance Report

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- 3.43.1** The Licence Holder must produce and submit a report on compliance with the conditions in this Marine Licence for the approval of the Licensing Authority at least **2 months** prior to commencement of the Licensed Activities or an individual phase of Licenced Activities.
- 3.43.2** The report must identify where the monitoring has been or is to be undertaken for each phase of construction and identify relevant plans and how conditions have been and are to be addressed. No Licensed Activities may be undertaken prior to written approval from the Licensing Authority.

4 INTERPRETATION

In this Licence terms are as defined in section 115 of the Marine and Coastal Access Act unless otherwise stated.

- i. **“2009 Act”** means the Marine and Coastal Access Act 2009;
- ii. **“Approved Application”** means the Marine Licence Application Form together with the Approved Supporting Documents;
- iii. **“Approved Supporting Documents”** means the documents supporting, or supplementary to, the Approved Application, submitted prior to the Licence Issue Date, listed in the Table at paragraph 2.3 above;
- iv. **“Commencement”** means the first undertaking of any Licensed Activities;
- v. **“Force majeure”** may be deemed to apply when, due to stress of weather or any other cause, the master of a vessel determines that it is necessary to deposit the substances or articles because the safety of human life and/or of the vessel is threatened;
- vi. **“Licensed Activities”** means the activities authorised by this licence as specified in 2.1;
- vii. **“Licensed Area”** means the area within which Licensed Activities are authorised by this licence as specified in section 2.2;
- viii. **“Licence Holder”** means the person(s) or organisation(s) named in section 1.2 to whom this licence is granted;
- ix. **“Licence Period”** means the period beginning with the Licence Start Date and ending on the Licence End Date;
- x. **“Licensing Authority”** means Natural Resources Wales acting on behalf of the Welsh Ministers;
- xi. **“Maintain”** includes inspect, repair, adjust or alter the Licensable Activities, and remove, reconstruct or replace any part, provided that such works do not give rise to any materially new or materially different environmental effects to those identified in the environmental statement and any derivative of “maintain” is to be construed accordingly.
- xii. **“Marine Enforcement Officers”** means the relevant officers appointed by Welsh Ministers under section 235 of the 2009 Act, contact details for whom are provided in section 5;
- xiii. **“Marine Licence Application Form”** means the application form forming part of the application referred to in paragraph 1.1;
- xiv. **“Method Statement”** means the Method Statement(s) forming part of the Approved Application or Approved Supporting Documents;
- xv. **“Offshore Substation Platforms”** means the offshore structures housing or incorporating electrical equipment such as switchgear and transformers and high voltage reactive controls, electrical systems such as metering and control systems, J-tubes, landing facilities for vessels and helicopters,

re-fuelling facilities, vessel charging facilities, communication and control systems, auxiliary and uninterruptible power supplies, energy storage systems, standby electricity generation equipment, cranes, storage for waste and consumables including fuel, marking and lighting and other associated equipment and facilities

- xvi. **“Other Wind Farm Infrastructure Zone”** an area to the west of the array area, which will preclude wind turbine generators and offshore substation platforms but will allow for a met mast, inter-array cables and Permanent Vessel Moorings
- xvii. **“Subsea Infrastructure and Temporary Works Area”** an area that extends 500 m west of the array boundary in which cables may be located, as well as where temporary works associated with the wind turbine generator array may take place (such as jack-up operations)
- xviii. **“Structure”** means anything constructed or deposited as authorised by this licence as specified in 2.1
- xix. **“Wind Turbine Generator”** means a structure comprising a tower, rotor with three blades connected at the hub, nacelle and ancillary electrical and other equipment which may include J-tube(s), transition piece, access and rest platforms, access ladders, boat access systems, corrosion protection systems, fenders and maintenance equipment, helicopter landing facilities and other associated equipment including communications equipment, fixed to a foundation or transition piece
- xx. **“Works”** means any construction activities comprised in the Licensed Activities and, where the context permits, includes any plant, equipment or materials used to carry out those activities or operations but excludes monitoring, minor routine maintenance or other ongoing operational activities following completion of any construction activities;
- xxi. all times shall be taken to be the time in Greenwich Mean Time (GMT) on any given day;
- xxii. all co-ordinates shall be taken to be latitude and longitude decimal degree (WGS 84)
- xxiii. in the event of any discrepancy between the coordinates listed in paragraph 2.2 and the plan attached at Appendix 2, the coordinates shall take precedence.

5 CONTACTS

Except where otherwise indicated, the primary point of contact with the Licensing Authority and the address for returns, correspondence and requests for variations of the licence is:

Marine Licensing Team
Natural Resources Wales
Permitting Service
29 Newport Road
Cambria House
Cardiff

Licence Number: ORML2233G

CF24 0TP

Tel: 0300 065 3000

Email: marinelicensing@naturalresourceswales.gov.uk

Welsh Government Marine Enforcement Officers may be contacted at:

Welsh Government
Suite 3
Cedar Court
Haven's Head Business Park
Milford Haven Pembrokeshire
SA73 3LS

Tel: 03000253500

Email: wfmccmpc@gov.wales

Appendix 1 – Project Parameters

Parameter	Value
Maximum number of wind turbine generators	50
Maximum total rotor swept area (m ²)	2,500,412
Maximum height of wind turbine generators when measured from MHWS to the tip of the vertical blade (m)	332
Maximum rotor diameter of each wind turbine generator (m)	306
Minimum distance from MHWS to the lowest point of the rotating blade for each wind turbine generator (m)	22
Minimum distance between wind turbine generators (in all directions measured from the centre point of each wind turbine generator) (m)	830
Maximum pile diameter of single pile structures (m)	15
Maximum pile diameter of two or more pile structures (m)	8
Maximum total seabed footprint for wind turbine generators (excluding scour protection) (m ²)	98,175
Maximum total seabed footprint for wind turbine generators (including scour protection) (m ²)	570,209
Maximum number of offshore substations	2
Maximum dimensions of offshore substations: Height when measured from MHWS (m)	77.3
Length (m)	80
Topside area (m ²)	4,000
Maximum total seabed footprint area for offshore substation foundations (excluding scour protection) (m ²)	14,000
Maximum total seabed footprint area for offshore substation foundations (including scour protection) (m ²)	21,600
Maximum volume of natural material for disposal	10,276,843 m ³ (20,553,686 T) (of which 86,400 m ³ (172,800 T) is related to Offshore Substation Platform)
Maximum total volume of scour protection for wind turbine generators and offshore substations (m ³)	Wind turbine Generators:907,773 Offshore substation Platforms:43,200 Met Mast: 1,282
Maximum number of meteorological masts	1

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Maximum total seabed footprint area for meteorological mast foundations (excluding scour protection) (m ²)	20
Maximum total seabed footprint area for meteorological mast foundations (including scour protection) (m ²)	855
Maximum width of any supporting structure for meteorological mast (m)	5
Maximum number of any LIDAR measurement buoys	3
Maximum number of any permanent vessel buoys	3
Maximum total length of cables (km)	124 for array cables
Maximum volume of cable protection (m ³)	112,072
Maximum footprint of cable protection (m ²)	192,123
Maximum number of cable crossings	n/a

