



## Investigative Foreshore Licence Application (Offshore Renewable Energy)

Please indicate project category as appropriate:

Wave:

Tidal:

Wind:

Other:

Please specify:

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### Applicant Name and Address:

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**Company/Organisation:** Inis Ealga Marine Energy Park (IEMEP) Ltd, a wholly owned subsidiary project company of DP Energy Ireland (DPEI).

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### Applicant Contact Details:

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**Applicant's Legal Advisor:**

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## Part 1: Proposal Details (Attach additional documents as required)

<b>1.1</b>	<p><b>Provide background information on the project including reason and objectives of the site investigations, the site selection process and any proposals for future works at the site.</b></p> <p>The Inis Ealga project is a key part of a wider strategic development of a portfolio of wind (and wave) sites that DP Energy Ireland (DPEI) is planning.</p> <p>DP Energy Ireland (DPEI) is investigating the feasibility of developing an offshore floating wind energy prospect off the south coast of Ireland, the Inis Ealga Marine Energy Park (IEMEP). DPEI intend to carry out site investigations within the prospect area, potential export cable corridors and landfall areas to assess the site and associated seabed. The results of which will be used to select optimal cable route(s), landfall option(s), windfarm layout and provide baseline data for environmental impact assessments. The Inis Ealga project is a key part of a wider strategic development of a portfolio of wind (and wave) sites that DP Energy Ireland (DPEI) is planning.</p> <p>The proposed IEMEP includes two development areas (Figure 1-1 in Natura Impact Statement – P2369_R4922_Inis Ealga). The intention is that the development would be linked by cables, with one export cable to shore. There are currently three potential export cable corridors; one of which will be selected as the preferred route after site investigations.</p> <p>The IEMEP lies partly within the 12 nautical mile (NM) limit (i.e. state foreshore) and partly outside of the 12NM limit (i.e. not state foreshore). Foreshore licence application (FS006859) will only cover the area within the 12NM limit and three potential export cable routes, hereon referenced to as the application area.</p> <p>Under the existing legislation a foreshore site investigation licence is required to undertake surveys and investigations to further assess the proposed Inis Ealga site and associated seabed. The results of which will be used to select optimal cable route(s), landfall option(s), windfarm layout and provide baseline data for environmental impact assessments.</p> <p>At this stage the regulatory framework only facilitates the development of sites within territorial waters (12 nautical miles (22km) from the coast). Though Action 25 and the associated steps in the Governments Climate Action Plan, has a target date of Q3 2020 for the development and enactment of necessary secondary legislation following enactment of Marine Planning and Development Management (MPDM) (subject to the enactment of the MPDM primary legislation by the Oireachtas). DPEI anticipates the IEMEP project being developing at and around the 12 nm and beyond the territorial waters limit.</p> <p>DPEI conducted a constraints assessment for potential floating wind and wave sites around the south and west coast of Ireland. The assessment considered: Proximity to Grid connection; Water depth; Wind Speed; Protected Areas; Fisheries; Seabed Substrate; Archaeology &amp; Shipwrecks; Pipelines; Cables; Existing and planned developments; Shipping and Navigation, Port Facilities and waste disposal sites. This assessment identified two potential sites off the south coast, one of these is the Inis Ealga site.</p>
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1.2	<b>Possible MW output of final development:</b> Circa 720 MW
1.3	<p><b>Type of surveys proposed (e.g. geophysical, geotechnical, archaeological or benthic.</b></p> <p><b>Geophysical:</b> Geophysical studies to determine seabed conditions (and ultimately installation methods and cable protection measures) along the cable route, foreshore project area and mooring/anchorage areas. Investigations to include, for example multibeam echosounder (MBES), side scan sonar (SSS), sub-bottom profiler (SBP), magnetometer survey.</p> <p><b>Geotechnical:</b> To evaluate the nature and mechanical properties of the superficial seabed sediments and intertidal sediments in the application area. Following review of the geophysical data a limited number of export cable and landfall options will be selected for geotechnical sampling. Investigations to include for example grab sampling, cone penetration testing, vibrocores and landfall boreholes.</p> <p><b>Wind Resource and Metocean Survey:</b> To evaluate wind and wave conditions, proposed survey methodologies include deployment of LiDAR buoy and Waverider buoys. An acoustic doppler current profiler (ADCP) will be used to assess tidal currents in the area.</p> <p><b>Archaeological:</b> A desktop study exercise will be undertaken to inform the approach to assessment of on and offshore cultural heritage interests and magnetometer survey to identify any underwater features of importance.</p> <p><b>Benthic and Intertidal:</b> Detailed studies of the habitats and species within the infrastructure footprint and along the cable route, including intertidal landfall sites.</p> <p><b>Birds &amp; Marine Mammal:</b> Surveys (e.g. boat-based/aerial/drone offshore surveys, acoustic monitoring) to determine usage of the area.</p>

#### 1.4 Survey methodologies and equipment to be used for each survey type proposed:

Contracts for the survey works have not yet been awarded however details of surveys is provided in point 1.3 above. Information on survey works is also provided in the Schedule of Survey Works - SOSW.

Indicative equipment for use on the survey work is listed below. Details of the vessels to be used for this investigation will not be known until award of contract. All vessels taking part in the survey/investigation works will comply with full certification requirements and shall be of an adequate size and navigation ability to ensure the works are carried out in a safe manner.

##### **Geophysical:**

Multibeam echosounder (MBES): MBES Is a remote sensing acoustic device typically attached to a vessels hull. The purpose is to map the water depth to seabed (bathymetry). Equipment suppliers include: Konsberg and Teledyne RESON.

Side Scan Sonar: Examples include: GeoAcoustics 160 system, Klein Hydro Scan or similar.

Sub-bottom profiler: Examples include: GeoAcoustics 5430A profiling system, Edgetech 3100 or similar pinger system, Ultra High Resolution Seismic (UHRS) (sparker/boomer), Applied acoustics boomer plate AA251/AA301 or similar, Seismic Energy Source Applied Acoustics CSP-L or similar.

Magnetometry: Examples include: Magnetometry (Total magnetic field survey) Geometrics G-882 caesium vapour magnetometer, Seaspy or similar.

**Geotechnical.** The number and locations of samples below will be determined by experienced contractor after contract award.

Grab Stations: Up to 80 stations, with 3 grabs samples at each station, at representative locations along the inshore cable route corridors and the offshore wind farm area. Locations subject to results of the geophysical and archaeological survey. Indicative equipment to be used is a grab sampler. A figure showing indicative locations is provided in the Schedule of Survey Works - SOSW.

Core Samples: Up to 200 at representative locations along the inshore cable route corridors and the offshore wind farm area. Locations subject to results of the geophysical and archaeological survey. Indicative equipment to be used is a high-performance corer (HPC) or a modular vibrocorer. A figure showing indicative locations is provided in the Schedule of Survey Works - SOSW.

CPTs: Up to 200 at representative locations along the inshore cable route corridors and the offshore wind farm area. Locations subject to results of the geophysical and archaeological survey. Indicative equipment to be used is a seacalf seabed cone penetrometer test (CPT) system or similar and a deck mounted CPT. A figure showing indicative locations is provided in the Schedule of Survey Works - SOSW.

Boreholes: There is potential for two boreholes to be drilled at the chosen landfall. The two boreholes will be drilled from a jack-up barge (JUB) using a percussion and a rotary corer. The number of legs used by the JUB is dependent on seabed conditions, current strength and wave action.

**Wind Resource and Metocean Survey:** Deployment of 3 seawatch wind lidar buoys or similar at three locations; Deployment of 3 ADCPs and deployment of 3 marker buoys next to the Lidar buoy.

	<p><b>Archaeological:</b> desk study to identify and assess metallic and other targets recorded during marine magnetometer survey and assessment of archaeological significance of identified targets to include sidescan analysis.</p> <p><b>Benthic and Intertidal:</b> Intertidal floral and faunal surveys at proposed cable landfall locations (to include transects, quadrats and core sampling). Locations to be determined in part from marine surveys.</p> <p>Subtidal Benthic floral and faunal survey in proposed offshore wind farm area and proposed cable routes area(s) to include grab sampling and drop-down video. Locations to be determined in part from marine surveys.</p> <p><b>Birds &amp; Marine Mammal</b></p> <p>Boat based marine mammals/reptile and seabird surveys including towed hydrophonic acoustic array and static acoustic monitoring using C-PODS.</p>
<p><b>1.5</b></p>	<p><b>Describe the nature and scale of any structure to be erected on the foreshore for testing the suitability of the site. Is the structure proposed to be temporary or permanent?</b></p> <p>A jack-up barge (JUB) will be temporarily located within the nearshore area to acquire geotechnical boreholes. Exact details of the vessel to be used will not be confirmed until award of the contract. The number of legs used for the operations is dependent on seabed conditions, current strength and wave action. For the application area, four legs are the most likely scenario.</p> <p>Wind Resource and Metocean Survey: Temporary deployment of 3 seawatch wind lidar buoys or similar at three locations; Temporary deployment of 3 ADCPs and deployment of 3 marker buoys next to the Lidar buoy.</p> <p>No structures will be permanently erected on the foreshore.</p>
<p><b>1.6</b></p>	<p><b>Provide information on proposed mooring, marking and lighting arrangements for any proposed deployment of instrument arrays.</b></p> <p>Commissioners for Irish Lights (CIL) standard navigational safety requirements will be adhered to with regards to lighting, positioning and mooring of all relevant buoys.</p>
<p><b>1.7</b></p>	<p><b>Has the applicant held or does the applicant hold any previous Foreshore Licences, Leases or applications over the area sought or over any other area? (Give details including Department’s file reference number(s)).</b></p> <p>No</p>

**1.8 Indicative timing of the investigation works: (i) Start date (ii) Duration (iii) Any other information relevant to timing.**

The survey works will likely be carried out between April and October within the five years following award of the Foreshore licence and subject to weather conditions.

**Geophysical survey (including Archaeology and Benthic):** Summer 2020 (3 months window Mid-April to Mid-July) in association with the benthic sampling programme.

**Geotechnical (including Benthic):** Option for preliminary survey Summer 2022 (2-month window August to September) and main survey Spring/Summer 2023 (4-month window).

**Wind Resource Monitoring:** Start Summer 2020 for a minimum of 12 months and a maximum of 36 months.

**Metocean Survey:** Current resource monitoring – Start Summer 2020 for a period of 3 months

**Intertidal:** Spring 2021

**Birds & Marine Mammal:** Spring 2020 (2 years duration seasonal)

<p><b>1.9</b></p>	<p><b>Describe any likely interactions with activities of the public or other foreshore users during the investigative works (e.g. fishing, aquaculture, sailing, and surfing). Describe any measures proposed to minimise inconvenience to other users.</b></p> <p>Until the preferred survey contractor is procured, the geophysical survey is complete, and a preferred landfall is selected, it is not possible to determine if access to and from the shore will be restricted. However, it is possible that a location within the intertidal area will be required. Any restrictions on the beach will be limited in duration (i.e. one to two weeks) and the beach will be left in a pre-impact condition.</p> <p>Other users in the area including fishing, recreational and commercial vessels. Areas of relatively high shipping activity in the area are the approaches to Cork, and East-West traffic passing parallel to the southern Irish coastline mainly heading to or from the Tuskar Rock Traffic Separation Scheme (TSS).</p> <p>The design of the survey scopes will seek to avoid or reduce environmental effects and minimise inconvenience to all other users through careful design and good industry practice. The following measures will be incorporated into survey design:</p> <ul style="list-style-type: none"> <li>• Geotechnical and environmental sampling locations will be positioned a minimum of 250m from third party assets, for example pipelines. All asset owners will be contacted prior to survey to determine if proximity agreements are required.</li> <li>• Deployment of equipment on the seabed will be kept to a minimum.</li> <li>• All survey vessels will follow relevant International and National Statute.</li> <li>• Notice to Mariners will be issued to the Maritime Safety Directorate, local fishing organisations, Cork and Waterford Port Company and relevant harbour masters.</li> <li>• A Fisheries Liaison Officer has been appointed.</li> </ul>
<p><b>1.10</b></p>	<p><b>Describe any consultations undertaken to date with other foreshore users.</b></p> <p>DPEI have meet with some of local fishers to introduce the project. We aim to continue to undertake formal consultation to comply with legislative requirements and additional engagement with stakeholder groups who may be affected by the proposed survey works. DPEI’s aim is to keep members of the public, any interest groups and relevant bodies informed and engaged before and during the proposed surveys.</p>



<p><b>1.11</b></p>	<p><b>Describe any consultations undertaken to date with other consent authorities e.g. planning authority, Commission for Energy Regulation etc.</b></p> <p>20<sup>th</sup> August 2019 IWEA workshop – unlocking the potential of offshore wind in Ireland. Attendees included CRU, DCCA, Dept of Taoiseach, DHPLG, Eirgrid, SEAI, IWEA Staff and Members (1 person from each offshore developer (Clodagh McGrath representing DP Energy Inis Ealga development) and 1 representative from IWEA workings: Consenting, Grid, Route to Market and Supply Chain)</p> <p>16<sup>th</sup> October meeting with Eirgrid Customer and Stakeholder team to discuss the project.</p>
<p><b>1.12</b></p>	<p><b>Describe briefly any consultations undertaken with relevant authorities (e.g. county council, port/harbour authority etc) or State Agencies e.g. National Parks &amp; Wildlife Service (NPWS), National Monuments Service (NMS) of Department of Arts, Heritage and the Gaeltacht:</b></p> <p>19<sup>th</sup> November 2019 meeting with Port of Cork to discuss the project.</p> <p>Following initial consultation with Dr David Lyons, National Parks and Wildlife Service (NPWS) in December 2018 and subsequent submission to the Development Application Unit (DAU) of the Department of Culture, Heritage and the Gaeltacht, in February 2019 we received underwater archaeology and nature conservation recommendations of the Department of Culture, Heritage, and the Gaeltacht, ref G Pre00340/2018.</p> <p>These recommendations will be included in our survey design and impact assessment.</p>
<p><b>1.13</b></p>	<p><b>Describe briefly any support received or under application with the Sustainable Energy Authority of Ireland (SEAI) or other State Agency:</b></p> <p>Under SEAI Ocean Energy Prototype Research and Development Programme 2017, DPEI conducted a Hybrid Wave and Wind Feasibility Study. Ref OCN/00079.</p>

**Part 2: Proposed Site. (Attach additional documents as required)**

<b>2.1</b>	<p><b>Delineate the proposed site in red on a latest edition map at a scale of 1:10 000 or larger scale if more appropriate and available, indicating:</b></p> <p>(i) the entire area;</p> <p>(ii) the hectarage involved below the line of high water of medium tides clearly marked in RED and</p> <p>(iii) the area of foreshore involved in metric measurements (i.e. hectares, metres squared or square kilometres etc).</p> <p>Foreshore Licence Map 1</p>
<b>2.2</b>	<p><b>Geographic co-ordinates of the area under application, where the area can also be identified on the Ordnance Survey map, specify Ordnance Survey co-ordinates also.</b></p> <p>Figure 2 Geographic Coordinates of the Area</p>

Point Number	IRENET95 ITM		WGS1984	
	Easting	Northing	Long	Lat
1	578450.60	553742.77	-8.3120	51.7356
2	578695.66	561300.68	-8.3089	51.8036
3	578720.78	561710.82	-8.3086	51.8073
4	579738.58	562237.19	-8.2938	51.8120
5	579327.51	563788.51	-8.2999	51.8260
6	578287.80	564714.62	-8.3150	51.8342
7	579030.87	565305.19	-8.3043	51.8396
8	579574.53	565265.72	-8.2964	51.8392
9	580028.91	564910.88	-8.2898	51.8361
10	580239.58	564327.53	-8.2867	51.8308
11	581923.79	562809.87	-8.2622	51.8172
12	603576.73	568655.72	-7.9481	51.8701
13	617126.45	557792.76	-7.7518	51.7722
14	617214.41	557834.78	-7.7506	51.7726
15	626283.59	560767.65	-7.6189	51.7986
16	613828.86	576689.52	-7.7989	51.9421
17	621728.69	580422.75	-7.6837	51.9754
18	628304.81	561421.29	-7.5896	51.8043
19	628992.00	561643.52	-7.5796	51.8063
20	628993.58	561802.84	-7.5796	51.8077
21	632498.41	587306.29	-7.5263	52.0368
22	632943.57	587608.45	-7.5198	52.0395

23	632943.44	589807.72	-7.5196	52.0592
24	630659.20	591888.61	-7.5527	52.0781
25	633397.80	594978.45	-7.5125	52.1057
26	634505.22	590009.87	-7.4968	52.0610
27	634540.04	587475.94	-7.4966	52.0382
28	631082.28	562319.49	-7.5492	51.8123
29	632901.63	562907.85	-7.5228	51.8175
30	644847.80	566046.69	-7.3491	51.8448
31	644780.69	564491.57	-7.3503	51.8309
32	638822.27	562439.48	-7.4370	51.8129
33	632538.65	558259.77	-7.5285	51.7757
34	632393.58	558162.35	-7.5306	51.7748
35	624315.98	552694.42	-7.6480	51.7261
36	622838.70	551694.42	-7.6695	51.7172
37	622495.43	551457.27	-7.6745	51.7150
38	614281.83	545668.26	-7.7936	51.6633
39	613923.60	545415.09	-7.7987	51.6610
40	613695.54	545255.64	-7.8020	51.6596
41	613510.83	545130.88	-7.8047	51.6585
42	613094.61	544856.57	-7.8107	51.6560
43	612667.89	544585.53	-7.8169	51.6536
44	609507.02	542563.02	-7.8627	51.6355
45	606192.70	544453.43	-7.9105	51.6525
46	599478.68	541682.79	-8.0075	51.6276
47	591876.91	548871.82	-8.1175	51.6922
48	591278.15	548776.28	-8.1262	51.6913

<b>2.3</b>	<b>Delineate proposed site on relevant Admiralty Chart.</b>  Figure 3 Inis Ealga Site on Admiralty chart
<b>2.4</b>	<b>Relevant Local Authority:</b>  Cork County Council and Waterford County Council

<p><b>2.5</b></p>	<p><b>Location name and nearest townland name:</b></p> <p>The Inis Ealga MEP foreshore project area is a maximum of 15 km NW-SE and 57 km NE-SW (374.43 km<sup>2</sup>) and is 7.2 km from the shore at its nearest point (Power Head, Co. Cork).</p> <p>Three Cable Routes have been identified based on high level desktop screening work. Thirty eight potential landfall sites have been identified within these three Cable Routes: 5 northwest of Dungarvan, Co. Waterford, 7 east and west of Ardmore, Co. Waterford and 26 from Ballycotton Bay, Co. Cork to Roberts Cove beach, Co. Cork. Coastal topography is varied at these sites with many areas of steep ground and cliffs but there are options that appear suitable for either trench and bury or horizontal directional drilling. It is unknown at this stage if the landfall options within Cork Harbour will be viable as there may be restrictions with subsea cable laying in this area.</p>
<p><b>2.6</b></p>	<p><b>Distance from nearest other developments, including any offshore renewable energy developments on the foreshore:</b></p>

	<p>No other developments located within the proposed wind farm area:</p> <p>The application area intersects:</p> <ul style="list-style-type: none"> <li>- Energia – wind farm Helvick Head (PSE Kinsale Energy) (FS006982) - development of an offshore wind farm,</li> <li>- The application area for the IFC-1 Ireland France subsea cable development (FS006766),</li> <li>- The proposed Celtic Interconnector routes,</li> <li>- The existing PSE Kinsale Energy Limited offshore gas pipeline which is going to be decommissioned since “it is anticipated that the gas wells will have come to the end of their productive life by 2020/2021, at which time the gas reserves will have been depleted” (Brochure_V11Mar_2017).</li> </ul> <p>The application area is located approximately:</p> <ul style="list-style-type: none"> <li>- 18.9 km (36.5 km from the central point of the IE foreshore project area to the central point of the Ballycotton Gas Field) from the Ballycotton Gas Field belonging to the PSE Kinsale Energy Limited, which is also planned to be closed,</li> <li>- 4.3 km from the SSE application area for the offshore wind development (56.4 km from the central point of the IE foreshore project area to the central point of the SSE application area),</li> <li>- 6.5 km from the Energia – wind farm Helvick Head (PSE Kinsale Energy) (FS006982) development of an offshore wind farm (53 km from the central point of the IE foreshore project area to the central point of the Viridian application area),</li> <li>- 14.6 km from the Helvick (Oil Exploration) field (32 km from the central point of the IE foreshore project area to the central point of the Helvick field).</li> </ul> <p>Figure 4 Other Developments</p>
<p><b>2.7</b></p>	<p><b>Distance from shore:</b></p> <p>The application area intersects the coastline but only for potential cable route corridors. The proposed wind farm area will be minimum of 9.9km from shore.</p>
<p><b>2.8</b></p>	<p><b>Distance from nearest aquaculture operation:</b></p> <p>There are no aquaculture sites in the immediate proximity. The nearest located aquaculture site is a shellfish aquaculture in Ringabella Creek (Oysters) within 600 m from the proposed cable routes, and shellfish aquaculture in Cork Harbour (Mussels) within 2.65 km from the proposed cable routes.</p> <p>Figure 5 Aquaculture</p>

<p><b>2.9</b></p>	<p><b>Distance from any other sensitive location e.g. fish spawning ground, designated Shellfish Growing Waters,</b></p> <p>The application area is located within the finfish spawning and nursery grounds of commercially important species:</p> <ul style="list-style-type: none"> <li>- Whiting (Spawning and Nursery)</li> <li>- White Belly Angler Monk (Nursery)</li> <li>- Megrin (Nursery)</li> <li>- Mackerel (Nursery)</li> <li>- Horse Mackerel (Nursery)</li> <li>- Herring (Spawning)</li> <li>- Herring (Nursery) - only the proposed cable routes</li> <li>- Hake (Nursery)</li> <li>- Haddock (Spawning and Nursery)</li> <li>- Cod (Spawning)</li> <li>- Cod (Nursery) - only the proposed cable routes,</li> <li>- Nephros ground.</li> </ul> <p>Figure 6 Spawning and Nursery</p> <p>Figure Map 7 DSW</p> <p>There are no Designated Shelfish Waters in the immediate proximity. The nearest located DSW is the Dungarvan Harbour shellfish waters – 1.5km from the proposed cable routes and 41 km from the central point of the IE foreshore project area, the Ballymacoda Bay SW - 4.7 km from the proposed cable routes and 20.5 km from the central point of the IE foreshore project area, Cork Great Island North Channel and Rostellan South – approx. 6km from the proposed cable routes and more than 30km from the central point of the IE foreshore project area.</p> <p>Figure 11 Fishing Activity</p>
<p><b>2.10</b></p>	<p><b>Any other site details considered relevant:</b></p> <p>In accordance with the Department of Culture, Heritage and Gaeltacht and based on information from the National Monuments Service: Wreck Viewer, there are 47 shipwrecks located within the application area.</p> <p>Figure 8 Shipwrecks</p>

**Part 3: Nature Conservation Considerations (Attach additional documents as required)**

<p><b>3.1</b></p>	<p><b>Distance from nearest Natura 2000 sites (i.e. Special Protection Area (SPA) or Special Area of Conservation (SAC):</b></p> <p>The potential cable route corridors of the application area are within the following Natura 2000 sites</p> <ul style="list-style-type: none"> <li>- Ardmore Head Special Area of Conservation (SAC) (site code: IE002123),</li> <li>- Ballycotton Bay Special Protection Area (SPA) (site code: IE004022),</li> <li>- Cork Harbour SPA (site code: IE004030),</li> <li>- Dungarvan Harbour SPA (site code: IE004032),</li> <li>- Helvick Head to Ballyquin SPA (site code: IE004192).</li> </ul>																																																																
<p><b>3.2</b></p>	<p><b>Name and location of Natura 2000 sites in or around the project area:</b></p> <p>The table below provides all sites with marine components within 15km of the application area</p> <table border="1" data-bbox="264 1003 1362 1693"> <thead> <tr> <th>SITE NAME</th> <th>SITE CODE</th> <th>Distance from the proposed cable routes</th> <th>Distance from the proposed wind farm area</th> </tr> </thead> <tbody> <tr> <td>Great Island Channel SAC</td> <td>001058</td> <td>4.6 km</td> <td>20.4 km</td> </tr> <tr> <td>Comeragh Mountains SAC</td> <td>001952</td> <td>9.2 km</td> <td>41.5 km</td> </tr> <tr> <td>Blackwater River (Cork/Waterford) SAC</td> <td>002170</td> <td>2km</td> <td>19.5 km</td> </tr> <tr> <td>Glendine Wood SAC</td> <td>002324</td> <td>3.6 km</td> <td>34.5 km</td> </tr> <tr> <td>Ardmore Head SAC</td> <td>002123</td> <td>0 km</td> <td>17.1 km</td> </tr> <tr> <td>Helvick Head SAC</td> <td>000665</td> <td>0.44 km</td> <td>25.9 km</td> </tr> <tr> <td>Ballymacoda (Clonpriest and Pillmore) SAC</td> <td>000077</td> <td>2.8 km</td> <td>16.7 km</td> </tr> <tr> <td>Ballycotton Bay SPA</td> <td>004022</td> <td>0.01 km</td> <td>12.1 km</td> </tr> <tr> <td>Ballymacoda Bay SPA</td> <td>004023</td> <td>6.3 km</td> <td>16.7 km</td> </tr> <tr> <td>Blackwater Estuary SPA</td> <td>004028</td> <td>2.7 km</td> <td>21.5 km</td> </tr> <tr> <td>Cork Harbour SPA</td> <td>004030</td> <td>0 km</td> <td>14.9 km</td> </tr> <tr> <td>Sovereign Islands SPA</td> <td>004124</td> <td>12 km</td> <td>22.4 km</td> </tr> <tr> <td>Helvick Head to Ballyquin SPA</td> <td>004192</td> <td>0 km</td> <td>19.6 km</td> </tr> <tr> <td>Mid-Waterford Coast SPA</td> <td>004193</td> <td>0.3 km</td> <td>33.2 km</td> </tr> <tr> <td>Dungarvan Harbour SPA</td> <td>004032</td> <td>0.01 km</td> <td>27 km</td> </tr> </tbody> </table> <p>Figure 9 Protected Areas</p>	SITE NAME	SITE CODE	Distance from the proposed cable routes	Distance from the proposed wind farm area	Great Island Channel SAC	001058	4.6 km	20.4 km	Comeragh Mountains SAC	001952	9.2 km	41.5 km	Blackwater River (Cork/Waterford) SAC	002170	2km	19.5 km	Glendine Wood SAC	002324	3.6 km	34.5 km	Ardmore Head SAC	002123	0 km	17.1 km	Helvick Head SAC	000665	0.44 km	25.9 km	Ballymacoda (Clonpriest and Pillmore) SAC	000077	2.8 km	16.7 km	Ballycotton Bay SPA	004022	0.01 km	12.1 km	Ballymacoda Bay SPA	004023	6.3 km	16.7 km	Blackwater Estuary SPA	004028	2.7 km	21.5 km	Cork Harbour SPA	004030	0 km	14.9 km	Sovereign Islands SPA	004124	12 km	22.4 km	Helvick Head to Ballyquin SPA	004192	0 km	19.6 km	Mid-Waterford Coast SPA	004193	0.3 km	33.2 km	Dungarvan Harbour SPA	004032	0.01 km	27 km
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<p><b>3.3</b></p>	<p><b>Describe potential impacts of the site investigations on Natura 2000 sites.</b></p> <p>An assessment of potential environmental effects on Natura 2000 sites is provided in a Natura Impact Statement – P2369_R4922_Inis Ealga</p>																																																																

<p><b>3.4</b></p>	<p><b>Describe any measures proposed to mitigate possible impacts on Natura 2000 sites and other key marine receptors.</b></p> <p>Measures proposed to mitigate potential effect are provided in the Natura Impact Statement – P2369_R4922_Inis Ealga</p> <p>Mitigation measures proposed to mitigate potential effects to the Helvick Head to Ballyquin SPA are:</p> <ul style="list-style-type: none"> <li>• It is recommended that the survey of the application area from the coast to 2km offshore occurs during the period August through to October to avoid disturbance of incubating or chick-rearing adults.</li> <li>• Geotechnical boreholes should be located a minimum of 100m from known breeding habitat e.g. caves, rock crevasses and sea cliffs.</li> </ul> <p>The following mitigation measure has been proposed to mitigate potential effects to the Mid-Waterford Coast SPA:</p> <ul style="list-style-type: none"> <li>• It is recommended that the survey of the application area from the coast to 2km offshore occurs during the period August through to October to avoid disturbance of incubating or chick-rearing adults.</li> </ul>
<p><b>3.5</b></p>	<p><b>Describe any other projects or plans for the area, anticipated or developed, that in combination with this proposal, may have a significant effect on a Natura 2000 site:</b></p> <p>An assessment of in-combination effects is provided in the Natura Impact Statement – P2369_R4922_Inis Ealga.</p>

**Part 4: Navigational Safety Considerations.**

<p><b>4.1</b></p>	<p><b>Distance from shipping lanes at nearest point. Illustrate on the appropriate marine charts accompanying the application.</b></p> <p>Figure 10 Shipping</p>
<p><b>4.2</b></p>	<p><b>If a safety zone for passage of shipping (including fishing and leisure boats) is sought, supply details and give reasons.</b></p> <p>No safety zones are sought; although Notice to Mariners will request that vessels remain at least 500m radial distance from the survey vessels.</p>



<b>4.3</b>	<p><b>If a temporal /spatial restriction are sought on the use of any type of fishing gear or leisure activity within the area, provide details and justification for such restrictions and indicate location(s) on appropriate marine charts.</b></p> <p>No formal restrictions are sought; details of temporary survey vessels and deployment of any buoys and/or ADCP will be notified to mariners (including fishermen) with requests to maintain a safe distance.</p>
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**Declaration and Consent:**

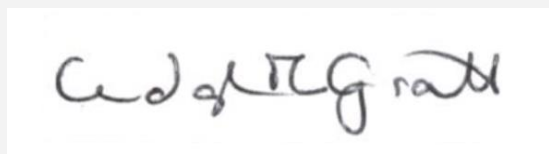
The details provided here are correct to the best of my knowledge.

I understand that no works will be commenced, by me or my agents on the proposed site, without the prior written consent of the Minister. The granting or refusal of any foreshore investigation licence will not give rise on the part of the applicant to any expectation whatsoever for, right or entitlement to a grant of any future foreshore permission in respect of all or any part of any area of foreshore.

By submitting this application form, I agree that the details provided (with personal contact details redacted) are to be published on the Department of Housing website and also that the full information provided including contact details are to be processed and retained by the Department of Housing, Planning and Local Government and shared with all appropriate Prescribed Bodies (as part of the Prescribed Bodies Consultation process) in furtherance of consideration for a foreshore Consent under the Foreshore Act 1933 (and Foreshore Amendment Act 2011).

I give consent to the Minister and his servants to copy this application and to make (a redacted) copy available for inspection and copying by the public. This consent relates to this application, to any further information, or submission provided by me or on my behalf and to the publication of the licence document

**Signed for and on behalf of the applicant:**



**Name of Signatory (block letters):** Clodagh McGrath

**Position Held:** Environment & Consents Manager

**Date** Thursday 5 March 2020

**Return completed applications to:**

Marine Environment and Foreshore Section

Department of Housing, Planning and Local Government

Newtown Road, Wexford, Y35 AP90

Enquiries to: [Foreshore@housing.gov.ie](mailto:Foreshore@housing.gov.ie)

Email a copy of application documents: [Foreshore@housing.gov.ie](mailto:Foreshore@housing.gov.ie)