Comhshaol, Pobal agus Rialtas Áitiúil
Environment, Community and Local Government

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Ref. No._____

Application date:_____

Date of receipt. _____

Date Validated:_____

APPLICATION FOR FORESHORE LEASE TO CONSTRUCT AN OFFSHORE ELECTRICITY GENERATING STATION

Please return completed form to the following:

Marine Planning – Foreshore Section (MPFS)
Dept. of the Environment, Community and Local Government
Newtown Road
Wexford

APPLICANT DETAILS

1	**Name**	Marine Institute
2	**Address *(postal)***	Rinville, Oranmore, Co. Galway
3	**Phone No *(contact)***	+353 91 387200
4	**E-mail address**	institute.mail@marine.ie
5	**Fax No.**	+353 91 387201
6	**VAT No.**	IE6600338L
7	**Tax District**	Border, Midlands & West

APPLICANT LEGAL ADVISOR DETAILS

8	**Name**	Philip Lee Solicitors
9	**Address *(postal)***	7-8 Wilton Terrace, Dublin 2.
10	**Phone No *(contact)***	+353 1 2373700
11	**E-mail address**	awhittaker@philiplee.ie
12	**Fax No.**	

SITE LOCATION

<table>
<tr><td>13</td><td>Longitude and Latitude of proposed generating station site boundaries</td><td>Geographic co-ordinates in degrees, decimal minutes (WGS 84)

Latitude
North boundary: 53° 13.90’
South boundary: 53° 13.60’

Longitude
East boundary: 9° 15.55’
West boundary: 9° 16.15’

See attached map:
SiteLocation_LongLat.pdf</td></tr>
<tr><td>14</td><td>Where the area can be identified on the Ordnance Survey map, specify also the Ordnance survey co-ordinates</td><td>Geographic co-ordinates in IRENET95 Irish Transverse Mercator

<table><tr><th>Easting</th><th>Northing</th><th>Vertex</th></tr><tr><td>515933</td><td>720882</td><td>Northeast corner</td></tr><tr><td>515923</td><td>720325</td><td>Southeast corner</td></tr><tr><td>515256</td><td>720337</td><td>Southwest corner</td></tr><tr><td>515266</td><td>720894</td><td>Northwest corner</td></tr></table>See attached map: SiteLocation_ITM.pdf</td></tr>
<tr><td>15</td><td>Longitude and Latitude of the central Point of the proposed wave generating station</td><td>53° 13.75’N, 9° 16.05’W</td></tr>
<tr><td>16</td><td>Area to be covered by the proposed generating station</td><td>37 hectares</td></tr>
<tr><td>17</td><td>Dimension of the generating station area at its longest and widest points</td><td>560 m x 670 m</td></tr>
<tr><td>18</td><td>Nearest distance from other generating stations or other constructions on the sea-bed (including constructions anchored permanently or semi-permanently to the sea-bed)</td><td>2.83 km to the base of Spiddal Pier (nearest construction on the seabed).

See Distance A on attached map:
SiteLocation_Distances.pdf</td></tr>
<tr><td>19</td><td>Distance from shore at nearest point</td><td>1.27km

See Distance B on attached map:
SiteLocation_Distances.pdf</td></tr>
<tr><td>20</td><td>Distance from nearest habitation</td><td>1.50km

See Distance C on attached map:
SiteLocation_Distances.pdf</td></tr>
<tr><td>21</td><td>Distance from nearest Aquaculture operation if less than 3 km</td><td>There are no aquaculture operations within 3km.</td></tr>
</table>

PROPOSAL DETAILS

22	**Nature of proposed generating station (i.e. wind powered, wave powered, etc.)**	Testing of prototype scaled wind, wave and tidal devices
23	**Details of Authorisation to construct and Licence to generate and supply issued by the Commission for Electricity Regulation**	Not applicable. No construction activity will be undertaken. No electricity will be supplied to the national grid.
24	**Number & location of generating device within the area (indicate on charts)**	Maximum of three scaled prototype devices
25	**Maximum height of wave energy converter above chart datum (including, in the case of windfarms, blades when vertical)**	Wind turbine blade tip at 35m above sea level* Wave energy converters at 5m above sea level* *as floating devices will rise and fall with the tide, maximum height is given with reference to sea surface level.
26	**Rotor diameter of turbines (in the case of windfarms)**	20m max
27	**Physical dimensions of each complete structure including anchorage or foundation**	For full details of all test site infrastructure and device dimensions please see Section 4.3: Project Components of accompanying Environmental Report
28	**Nature of construction below sea- level**	Not applicable No construction activity will be undertaken.
29	**Nature of construction above sea-level**	Not applicable No construction activity will be undertaken.
30	**Manner in which structures will be anchored to the sea-bed (i.e. cable, set in concrete foundations, etc.)**	For full details of all test site infrastructure and device anchoring please see Section 4.3: Project Components of accompanying Environmental Report

Questions 25, 26, and 27 require scale drawings to be provided

Environmental Considerations

31	**Distance from nearest Special Protection Area (SPA) or Special Area of Conservation (SAC) if less than 5 Km**	Connemara Bog Complex SAC: 3.6km
32	**Indicate any other economic or leisure activities known to take place within or adjacent to the area proposed for the generating station**	Several boats (6 - 10m length) fishing for lobsters, shrimps and velvet crabs to north and west of site. Pots are set along rocky areas and over stretches of sand in water depths of up to 22m usually in strings of 20-30 pots. Limited bottom trawling for Dublin Bay prawn and demersal fish is carried out by a few small trawlers (10 to 15m) just to the west of test site. Line fishing for mackerel and pollock takes place locally in the summer months from small inshore boats. See Chapter 12: Material Assets of accompanying Environmental Report for impact assessment on economic and fishing activity
33	**Maximum noise levels expected at the site**	Maximum noise levels from the operation of full scale commercial wind farms are typically ~100dB(A). It is estimated that operational noise at the test site will be ~50dB(A)
34	**Normal noise levels expected at the site**	Ambient background noise levels in a coastal marine environment of 30-50dB(A) would be expected to prevail at the test site.
35	**Normal noise levels expected at site of nearest habitation**	Ambient background noise levels in a coastal marine environment of 30-50dB(A) would be expected to prevail at the point of nearest habitation
36	**Maximum Noise levels expected at site of nearest habitation**	The nearest habitation is located very close to the coastline and approximately 1.5km from the boundary of the test site. It is estimated that maximum noise levels expected at this location will be within the range of ambient background noise in a costal marine environment of between 30-50dB(A)
37	**Maximum noise levels expected at nearest SPA or SAC (if closer than 5 Km.)**	ambient
38	**Indicate conditions which might be expected (a) to increase noise levels above normal and (b) to maximum levels**	n/a
39	**Describe visual impact of the proposal at site of nearest habitation or human activity on-shore (indicate type of site (i.e. houses, beach, boat club, etc.)**	In clear viewing conditions the proposed Galway Bay Marine and Renewable Energy Test Site will be a noticeable concentration of variant, but apparently associated, structures covering a small geometric section of Galway Bay. The structures may appear slightly ambiguous compared to vessels and structures that might be more familiar in the marine environment this far offshore. Given that the proposed Galway Bay Marine and

		Renewable Energy Test Site does not represent significant bulk, visual impacts will result almost entirely from visual 'intrusion' rather than visual 'obstruction'. The proposed structures may contribute a minor degree of visual clutter to the seaward view. Nonetheless, this is a living and working section of coastline that hosts an array of structures and land uses and it is not considered that the Galway Bay Marine and Renewable Energy Test Site conflicts with the character and values associated with the coastal vistas in this area. Important ameliorating factors are the temporary nature of the installations for the devices and the fact that it will be uncommon for all of the structures to be in place at any one time. Overall, it is not considered that the proposed Galway Bay Marine and Renewable Energy Test Site will give rise to any significant impacts. See Chapter 11: Visual Impact Assessment of accompanying Environmental Report for full visual impact assessment findings
40	**Has consultation taken place with National Parks and Wildlife - the National Heritage Service?**	Yes ☑ No ☐
41	**Have nearby harbour authorities been consulted?**	Yes ☑ No ☐
42	**Has planning permission been received for shore based works?** ***(if yes copy should be attached)*** If planning permission has not been received a copy of the planning application(s) should accompany the application)	Yes ☐ No ☐ Not applicable as no shore based works are being undertaken, therefore planning permissions are not required.
43	**Have necessary on-shore wayleaves been obtained?**	Yes ☐ No ☐ Not applicable as no shore access is required therefore onshore way leaves are not required.

Navigation Safety Considerations

44	**Distance from shipping lanes at nearest point?** *Illustrate on the appropriate marine charts accompanying the application*	n/a
45	**Is an exclusion zone for passage of shipping (including fishing and leisure boats) sought? (If "yes" please supply details and give reasons)**	No
46	**Is an exclusion zone (or ban) sought on the use of any type of fishing gear or leisure activity within the area occupied by the turbines and/or associated cables?** *(exclusion zone should be indicated on the appropriate marine charts which should accompany the application)*	No

A separate marine safety statement is required for all Offshore electricity generating stations.

Financial Details

47	**Designed maximum annual output of the proposed generating station**	Zero The proposed test site for scaled ocean energy prototypes will not be connected to the grid
48	**Anticipated maximum annual output of the proposed generating station**	Zero The proposed test site for scaled ocean energy prototypes will not be connected to the grid
49	**Capital Cost of Proposed Venture**	€1 million
50	**Source of capital**	Government funding

DECLARATION and CONSENT

The details given on this Application 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.

I understand that the possession of a Foreshore licence does not give me preferential rights for the development of the area to which I am now making an application to Lease.

Signed for and on behalf of the applicant Michael Gillooly

Name of Signatory (block letters)_Michael Gillooly

Position Held:__Director_____

Date 6th April 2016.

Company Stamp

Marine Institute
Foras na Mara
06 APR 2016
ORANMORE GALWAY