



Planning and Development Act 2000, as amended.
NOTICE OF SIGNIFICANT ADDITIONAL INFORMATION TO AN COIMISIÚN PLEANÁLA IN RESPECT OF AN OFFSHORE WIND ENERGY PROJECT UNDER REFERENCE NUMBER ABP-319866-24
Fingal County Council, Dublin City Council, Meath County Council and Louth County Council

In accordance with sub-section 2(b) of 292 of the Planning and Development Act, 2000 as amended, An Coimisiún Pleanála gives notice of the furnishing of significant additional information received from North Irish Sea Array Windfarm Limited in relation to the following proposed development known as North Irish Sea Array (“NISA”) Offshore Wind Farm.

The proposed development is located off the coast of Counties Dublin, Meath and Louth. The infrastructure associated with the onshore elements are located entirely within the administrative areas of Fingal County Council and Dublin City Council.

The proposed development consists of the following principal elements:

The proposed development of the North Irish Sea Array (“NISA”) Offshore Wind Farm, located off the east coast of Ireland. The proposed development is comprised of offshore and onshore infrastructure and will have an operational life of 35 years. The offshore infrastructure of the proposed development is located off the coast of counties Dublin, Meath and Louth. The onshore infrastructure of the proposed development is located in County Dublin (Fingal County Council and Dublin City Council administrative areas).

The Applicant is the holder of a Maritime Area Consent (ref: 2022-MAC-005), granted for the occupation of the subject maritime area for the permitted maritime usage of the construction and operation of an offshore wind farm and associated infrastructure.

The offshore infrastructure will consist of the following:

- **Array area** in which the following infrastructure will be located: offshore wind turbine generators, one offshore substation platform, substructures and associated seabed foundations for the wind turbine generators and the offshore substation platform, and offshore inter-array cables connecting each of the offshore wind turbine generators to the offshore substation platform. The inter-array cables will have a nominal operating voltage of between 66kV and 132kV and will be buried in a trench in the seabed or laid on the seabed surface with additional cable protection.
- **Offshore export cable corridor:** two offshore 220kV high voltage alternating current export cable circuits including fibre optic cables will be buried in a trench in the seabed or laid on the seabed surface with additional cable protection and will be routed from the offshore substation platform to the landfall located in the townland of Bremore, Co Dublin.

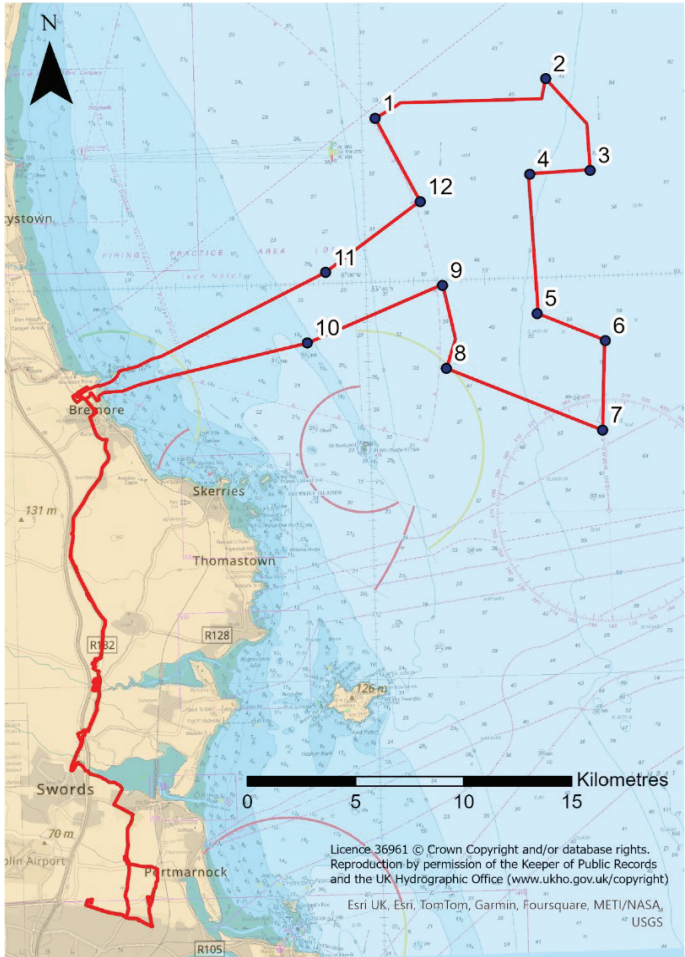
Two project options are included for consideration in the planning application.

These are:

- **Project Option 1:** 49 number wind turbine generators with a tip height of 290 metres above Lowest Astronomical Tide; and
- **Project Option 2:** 35 number wind turbine generators with a tip height of 316 metres above Lowest Astronomical Tide when located outside the Dublin Airport controlled airspace and 311 metres above Lowest Astronomical Tide when located inside the Dublin Airport controlled airspace. 8 of the 35 wind turbine generators for Project Option 2 will have a tip height of 311m, due to being located within the controlled airspace.

Only one project option will be chosen as the preferred option and subsequently constructed.

At its closest point, the array area will be located approximately 11.3km from land with the closest wind turbine generator situated approximately 12.4km from land. The water depths in the array area range from 33m to 63m below Lowest Astronomical Tide.



The location of the proposed development boundary (shown in red) is illustrated in the below figure. The coordinates of the proposed development boundary offshore are provided in the table below.

ID	System: WGS 84	
	Latitude (Deg Min Sec)	Longitude (Deg Min Sec)
1	53° 44' 7.093" N	5° 59' 25.321" W
2	53° 44' 59.840" N	5° 52' 12.499" W
3	53° 42' 40.327" N	5° 50' 26.646" W
4	53° 42' 36.594" N	5° 53' 2.805" W
5	53° 39' 4.930" N	5° 52' 48.342" W
6	53° 38' 22.396" N	5° 50' 3.801" W
7	53° 36' 6.166" N	5° 50' 15.269" W
8	53° 37' 46.436" N	5° 56' 43.354" W
9	53° 39' 53.427" N	5° 56' 47.162" W
10	53° 38' 30.691" N	6° 2' 30.316" W
11	53° 40' 16.279" N	6° 1' 42.322" W
12	53° 41' 59.806" N	5° 57' 37.617" W

The onshore infrastructure will consist of the following:

- **Landfall and associated infrastructure** at Bremore townland, to the north of Balbriggan, Co. Dublin, comprising:
 - two offshore 220kV high voltage alternating current offshore export cable circuits, laid underground of the beach at Bremore, by horizontal directional drilling from the High Water Mark to two transition joint bays;
 - two permanent underground transition joint bays, one for each offshore export cable circuit, to allow connection between the offshore export cable circuits and the onshore export cable circuits;
 - permanent access to the landfall site for maintenance purposes will be from the junction of the R132 road and the Landfall Access Road - where a bituminous bellmouth will be formed to facilitate safe vehicular access along the Landfall Access Road - then along the Landfall Access Road to a point just to the east of the Dublin to Belfast railway line. From this point, permanent access tracks, in crushed stone, approximately 5m wide, will be constructed to the railway horizontal directional drilling entry site and to the landfall transition joint bays;
 - two onshore export cable circuits (220kV high voltage alternating current) from the transition joint bays to the proposed grid facility, laid underground, including a crossing of the Dublin-Belfast railway line by horizontal directional drilling;
 - fibre optic cables, for operation and control purposes will be laid underground with the onshore export cables;
 - temporary horizontal directional drilling compounds and construction compounds, at Bremore as well as temporary access tracks, to facilitate the construction of the landfall infrastructure; and
 - associated ancillary works.
- **Grid facility** at Bremore townland, to the north of Balbriggan, Co. Dublin, comprising two distinct substations (compensation substation and Bremore substation) each within its own self-contained compound. The onshore export cable circuits will connect to the compensation substation. A connection will then be made between the compensation substation and the Bremore substation via underground cable. Power will leave the Bremore substation via the onshore cable circuits. The compensation and Bremore substations will comprise the following:
- **Compensation Substation**, within a compound of approximately 100m x 190m, comprising:
 - 220kV GIS substation building, approximately 49m x 18.5m x 17m in height; plus 3m high lightning rods;
 - A static VAR compensator building (STATCOM), approximately 23m x 18m x 6.85m in height; housing equipment and control panels with an adjacent compound and 220/66kV transformer;
 - Two number mechanically switched reactors, combined with the STATCOM, located outdoors within the compensation substation compound;
 - Two sets of harmonic filters;
 - A shunt reactor;
 - Lightning arrestor masts, approximately 17m above ground level; and
 - A standby diesel generator.
- **Bremore Substation**, within a compound of approximately 50m x 115m, comprising:
 - 220kV GIS substation building 61m x 18.5m x 17m in height; plus 3m lightning rods;
 - Two shunt reactors (one for each 220kV onshore cable); and
 - A standby diesel generator.
- **Ancillary grid facility infrastructure**, comprising:
 - A temporary construction compound to support construction of the grid facility, as detailed on the planning drawings accompanying the planning application;
 - Site landscaping, as detailed on the planning drawings accompanying the planning application;
 - Potable water connection via a new watermain connection to the existing watermain within the R132 road; foul wastewater will be collected separately from each