

Navitus Bay Offshore Wind Park

Developer: Eneco Wind UK Ltd (Eneco) & EDF Energy Renewables

Site size:

The total area of seabed that will be developed is 175 square kilometres

Site location:

The wind park would be located off the Dorset and Hampshire coasts, to the west of the Isle of Wight. The landfall would be at Taddiford Gap, between Barton on Sea and Milford on Sea. Beaches around Bournemouth (28km) and the west coast of the Isle of Wight (28km) could be affected.

Technology:

The project will have an approximate installed capacity of 1100MW, enough renewable energy to power up to 790,000 homes each. As it is not possible to define the model of turbine at this stage, Navitus Bay is considering turbines with an installed capacity of between 5MW and 8 MW. The maximum number of wind turbines will be 218. The WTG maximum tip height is 200m and maximum rotor diameter is 176m (for an 8MW capacity turbine). Currently a 5MW turbine would be up to 177m to tip with a rotor diameter of 154m.

Navitus Bay has undertaken a preliminary engineering study in order to identify suitable foundation options. At this stage, the potentially suitable options are steel monopoles, concrete gravity base and space frame structure.

Taddiford Gap, between Barton on Sea and Milford on Sea, was chosen as the landfall location to minimise the impact of laying the onshore cable route on the local area.

Because of the narrow beach, height of the cliffs and to protect the seafront where the cable comes ashore, Navitus Bay is planning to use a Horizontal Directional Drill (HDD) design. This involves drilling a bore from the cliff, to an exit point below Mean High Water Springs. The submarine export cables will then be connected to the onshore cables by a transition joint, housed in an underground joint bay on the landward side of the landing point. The cables will be drilled sufficiently far back from the cliff, and sufficiently deep, to ensure they do not become exposed due to erosion nor contribute to the natural erosion rates.

Development stage:

Navitus is currently in the ore-application stage; Navitus Bay will apply to the Planning Inspectorate for a Development Consent Order in the first quarter of 2014.

Timeline:

Scoping Report:09/2011

Scoping Opinion:10/2011

Community Consultation: 18/09/2011 – 19/09/2011

21/02/2012 – 03/03/2012

1/02/2013 – 13/02/2013

12/09/2013 – 10/10/2013

Application Submitted: Expected Q1 2014

Construction begins: Expected 2017

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Regulator details:

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Consultees:

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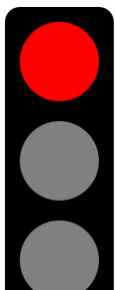
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SAS traffic light system:



Red – The Environmental Statement for Navitus Bay has not yet been released however initial studies into the impacts on the wave resource identified potential wave reductions

for the Isle of Wight (IoW) of up to 10%. SAS will continue to advise Navitus Bay to help reduce this figure.