

# DUDGEON OFFSHORE WIND FARM

Warwick Energy is very pleased to be leading plans to develop the Dudgeon Offshore Wind Farm project. This development will make a significant contribution to the UK's efforts to reduce greenhouse gas emissions and the effects of global warming. We are grateful for the widespread support and encouragement we have already received to date from the community in north Norfolk. We hope that you will continue to support our efforts on this project.

Mark Petterson  
Executive Director, Warwick Energy Limited

## BACKGROUND

Dudgeon Offshore Wind Limited (DOW), is a subsidiary of Warwick Energy Limited, and was formed to develop the proposed offshore wind farm project at Dudgeon. Warwick's previous experience of developing such projects includes Barrow Offshore Wind Farm and Thanet Offshore Wind Farm.

The Government's energy strategy includes a target to generate 20% of the UK's electricity needs from renewable sources by 2020. Currently, the UK generates around 5% of its electricity from renewable sources. The development of offshore wind farms is key to the Government's renewable energy targets and will contribute to the nation's electricity supply security.

If consent is successfully obtained for this project, then the Dudgeon Offshore Wind Farm could be operational by the end of 2013.

*"Climate change will have a devastating impact unless urgent action is taken to boost the contribution of renewables.....we believe wind power is a critically important part of the overall energy mix"*

Jonathon Porritt, Chairman, Sustainable Development Commission

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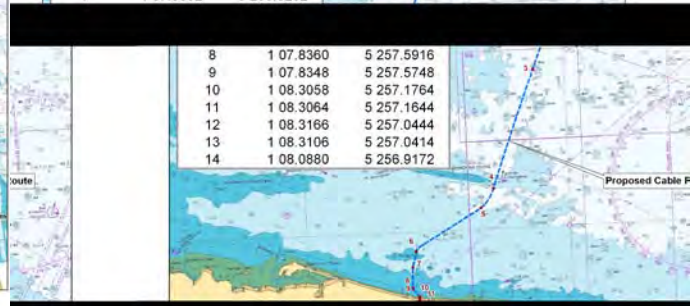
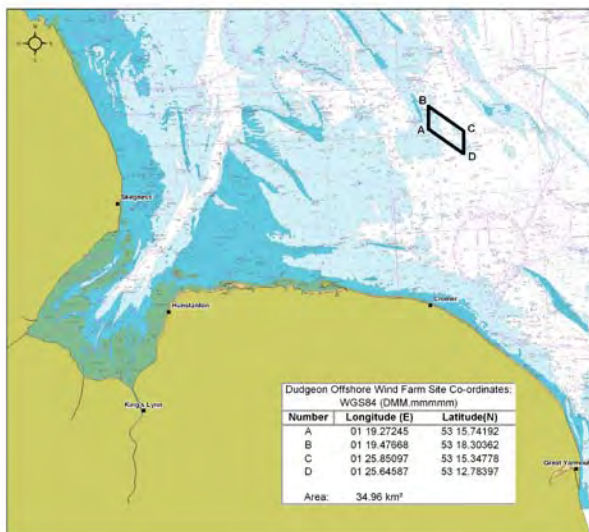
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## SITE LOCATION AND OFFSHORE CABLE ROUTE

An Environmental Impact Assessment is being prepared for the development and studies have been undertaken to determine the effects on the local environment, including:

- ✘ Nature conservation and marine ecology
- ✘ Seabed geology and oceanography
- ✘ Coastal processes and sediment transport
- ✘ Ornithology
- ✘ Fish, shellfish, and marine mammals
- ✘ Commercial fisheries
- ✘ Seascape and visual character
- ✘ Shipping and navigation risk
- ✘ Aviation
- ✘ Marine and terrestrial archaeology
- ✘ Tourism and recreation
- ✘ Socio-economic environment
- ✘ Transport and access
- ✘ Noise and vibration
- ✘ Other human activities

The scope of these studies has been agreed with the appropriate government and environmental bodies and subsequently, the proposed wind farm site and cable landfall have been developed as shown below.

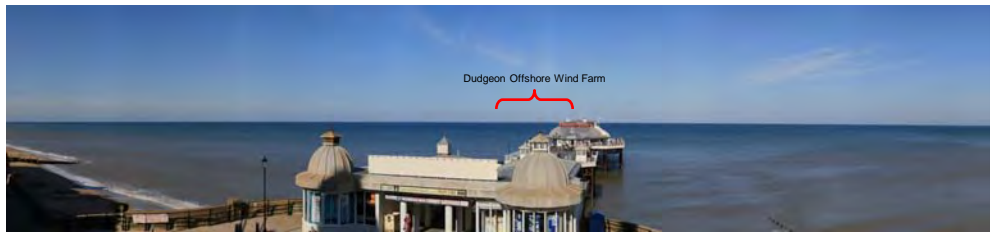


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# DUDGEON OFFSHORE WIND FARM

## WHAT WILL THE WIND FARM LOOK LIKE?



**Cromer Pier**



**Cromer Golf Course**



**Beeston Bump, Sheringham**



**Blakeney Point**



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## LOCAL BENEFITS

A range of potential benefits may accrue to the Norfolk area from this development, including:

- ✘ Capital cost of the project of approx £1.5bn. A proportion of this could be spent locally with potential benefits for local suppliers and service providers.
- ✘ Local contractors and workers are currently being used in support of the development process.
- ✘ An assembly base will be needed during the construction period. At least 200 workers will be required, some of whom could be provided locally.
- ✘ A local maintenance facility will be needed during the 40 year operational life of the wind farm. At least 25 skilled positions will be required, many of whom could be provided locally.
- ✘ A significant contribution towards renewable energy targets to help tackle climate change.

## VITAL STATISTICS

- ✘ One of a number of offshore wind farms planned in the Greater Wash Strategic Environmental Assessment Area.
- ✘ The wind farm would be located in average water depths of 20 - 25m and cover an area of 35km<sup>2</sup>.
- ✘ Up to 168 wind turbines generating up to 560MW<sub>e</sub> of renewable electricity in total, enough to power approx 400,000 homes.
- ✘ The nearest wind turbine would be located approx 32km north east of Cromer.
- ✘ Each wind turbine would be up to 200m tall at its highest point, with a minimum clearance above sea level of 22m. The distance between wind turbines would be a minimum of 360m along rows and 600m between rows.
- ✘ The application for consent to construct and operate the wind farm and associated export cables is expected to be submitted to the Government in April 2009. A separate application will be made to the Local Planning Authorities in October 2009 for the onshore works.
- ✘ The award of consents will hopefully be achieved by April 2010.
- ✘ Construction works could commence in March 2012.
- ✘ The wind farm could become operational by November 2013.

***For further details please contact: The Project Manager, Dudgeon Offshore Wind Limited, Wellesbourne House, Wellesbourne, Warwickshire CV35 9JB***

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