

Appendix 6 – Exhibition leaflet



Site studies

Various studies are underway to assess the effect of the development on the local area. The Environmental Impact Assessment (EIA) will research a range of issues such as presence or absence of marine life, including birds and their feeding, breeding and migratory habits. It will also look at wave and tidal conditions, natural fish resources, landscape, seascape and visual character and any other potential effects of seabed disruption, as well as reporting on the implications for the local community.

As a result of the EIA, an Environmental Statement (ES) will be produced reporting on the findings of these studies and is expected to be submitted to the relevant authorities towards the end of 2009. The ES will be made widely available for review during the consultation process.



Onshore details

Subsea cables will transport the electricity from the turbines to a transformer located onshore. This will convert the voltage for transmission through the national grid via the local grid connection.

The cable will come ashore in the area around Tunstall, and two options are being investigated for the onshore cable route, which are 15.1km for the northern route or 16.9km for the southerly route. Landowners will be consulted during the planning process.

The connection point is a new 275/132 kV transformer station at New Hedon, next to the existing Saltend North station on the outskirts of Hull.



DONG Energy vision

DONG Energy is committed to working in close co-operation with all users of the sea to ensure the best possible outcome of this project. It is important that the opinions of the local community are heard in relation to the plans for Westermost Rough.

DONG Energy is confident that the environmental benefits of Westermost Rough – a sustainable source of clean electricity and extensive carbon dioxide savings – will have a positive impact on the Humber region, as well as the remainder of the UK, making this a landmark project in the move towards our low carbon future.

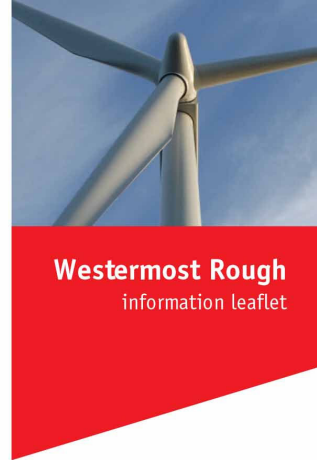
Project timeline

The likely timeline of activities for Westermost Rough is given below, although some of these may be subject to change. The formal consultation process will begin on submission of the planning application:

- **Spring/Summer 2009** – on-site surveys completed
- **Autumn 2009** – planning application submitted with Environmental Statement
- **2011** – planning consent awarded
- **2012** – construction commences
- **2013** – wind farm begins electricity generation.

For further information please contact:

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Westermost Rough information leaflet



Representative viewpoint – Seaside Road / Central Promenade, Withernsea. Distance to the proposed development – 8km

Viewpoints

The turbines will be visible from the shoreline – as shown in this image. The visibility will vary according to the viewers position on the coast and the weather conditions.

Who we are

DONG Energy is the Danish state-owned energy company. The company was formed in 2008 through a merger of Danish Oil and Natural Gas (DONG) and the major power utilities in Denmark. It is one of the leading energy groups in the Nordic region, based on procuring, producing, distributing, trading and selling energy and related products in Northern Europe. DONG Energy employs approximately 4,500 people and generates £3.8 billion annually in revenue.

With more than 30 years' experience in the wind power industry, DONG Energy owns wind turbines in a number of European countries. The company is among the world's elite when it comes to constructing and operating offshore wind farms.

Renewable energy accounts for 15% of DONG Energy's total electricity production.

The biggest offshore wind farms worldwide are currently in Denmark, with a strong DONG Energy involvement in impact assessment activities, construction, operation and major investment.



Our wind energy activities

DONG Energy is one of the leading offshore wind developers in the UK. Barrow came online in July 2006 and is partly owned by DONG Energy. Barrow Bank became operational in October 2007 and is fully owned by DONG Energy. As well as Westermost Rough, DONG Energy is either full or part owner of London Array, Walney, West of Duddon Sands, Cirrus Shell Flat Array, Scarweather Sands, and Gunfleet Sands offshore wind farms.

- Barrow Bank - (Operational)
- Barrow - (Operational)
- Scarweather Sands - (Approved)
- London Array - (Approved)
- Gunfleet Sands 1 - (Approved)
- Gunfleet Sands 2 - (Approved)
- Walney - (Approved)
- West of Duddon Sands - (Submitted)
- Cirrus Array - (Submitted)
- Westermost Rough - (Proposed)



Why offshore wind?

Government and business alike have acknowledged that increasing renewable energy sources in the UK is fundamental if we are to combat climate change by meeting carbon dioxide emission reduction targets and move away from our reliance on finite resources, such as gas and coal. If we are to meet European-wide targets of supplying 20% of energy requirements from renewable sources by 2020, and at least 60% by 2050 in the UK, there is a strong need for increased relevant technology.

Wind energy is the most advanced of the available options, and is close to cost-competitive with traditional energy supplies. The UK has ideal conditions for optimum generation of electricity from the wind, and is estimated to have at least one-third of total European potential offshore wind resource – enough to power the country several times over.

The UK has been identified as the best market for offshore wind energy in the world, as a result of its combination of wind resource, strong offshore regime and the extension of the relevant UK legislation, the Renewables Obligation, to 15.4% by 2015.

A number of factors influence site selection, including relatively shallow waters (less than 30 metres) and available grid connections. Key constraints focus on considerations such as other seabed users, navigation routes, the fishing industry, dredging channels and wildlife.



Project details

The site that is being assessed for the Westermost Rough project is located 8 kilometres (km) from the coast, approximately 25km north of Spurn Head at the Humber Estuary.

The project will be a significant source of low carbon renewable energy, with a generating capacity of 240 megawatts (MW) – equivalent to the average annual electricity needs of approximately 150,000 households. Plans for Westermost Rough have been drawn up for both 3MW turbines with a rotor diameter of 90 metres (m), or 7MW turbines with a rotor diameter of 150m.

If the project has a power generation capacity of 240MW and uses 3MW wind turbines, it would require 80 turbines in total. These would be installed in a grid of 8 x 10 turbines with a spacing of 816m x 634m between each turbine.

If DONG Energy decides to use a 7MW turbine with a 150m rotor, 35 turbines with a total project output of 245MW and a distance of 1428m x 952m between the turbines would be installed.

