Yorkshire and The Humber is home to a hub of regional activity which spans the whole lifecycle of an offshore wind farm. With four projects which have consent and a further two projects totalling 3.4GW yet to be developed, the area is truly at the heart of the offshore wind industry in the UK.

Looking to the future, UK based companies will be able to take advantage of a strong pipeline of projects, with project teams from Race Bank, Triton Knoll and the Hornsea Projects already engaging with supply chain to highlight the opportunities to come.

<table>
<thead>
<tr>
<th>Wind farms</th>
<th>Owner/Operator</th>
<th>Capacity (MW)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operational</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Humber Gateway</td>
<td>E.ON</td>
<td>219</td>
</tr>
<tr>
<td>Lincs</td>
<td>Centrica, DONG Energy, Siemens Project Ventures</td>
<td>270</td>
</tr>
<tr>
<td>Lynn &amp; Inner Dowsing</td>
<td>Centrica</td>
<td>194</td>
</tr>
<tr>
<td>Westermost Rough</td>
<td>DONG Energy, Marubeni, Green Investment Bank</td>
<td>210</td>
</tr>
<tr>
<td>Consented</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Race Bank</td>
<td>DONG Energy</td>
<td>580</td>
</tr>
<tr>
<td>Triton Knoll</td>
<td>innogy Renewables UK Ltd, Statkraft</td>
<td>900</td>
</tr>
<tr>
<td>Hornsea 1</td>
<td>DONG Energy</td>
<td>1200</td>
</tr>
<tr>
<td>Hornsea 2</td>
<td>DONG Energy</td>
<td>1800</td>
</tr>
<tr>
<td>Planned</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hornsea 3</td>
<td>DONG Energy</td>
<td>2400</td>
</tr>
<tr>
<td>Hornsea 4</td>
<td>DONG Energy</td>
<td>1000</td>
</tr>
</tbody>
</table>
Offshore Support

The Humber and Yorkshire has a wealth of companies who are supplying, managing and operating wind support vessels. Gunston Ship Builders, Rix Sea Shuttle, MMS Ship Repair and Mainprise Offshore have all supported offshore wind projects across Europe. Mainprise Offshore based in Scarborough have supported over 20 windfarms across the UK, The Netherlands, Germany and Denmark. Hull based Rix Sea Shuttle provide personnel and equipment transfer to offshore wind farms. Most recently they have won a £2m contract for the supply of crew transfer vessels to Statoil’s Dudgeon Offshore Wind Farm.

1 DONG Energy

In September 2016, DONG Energy announced plans for a new multi-million pound investment in Grimsby to create the UK’s largest offshore wind operations and maintenance hub. The new facility will be developed by the Grimsby’s Royal Dock and will initially support the Westernmost Rough, Race Bank and Hornsea Project One offshore wind farms. The hub will include a marine and helicopter coordination centre capable of providing 24/7 service to offshore operations across the UK and beyond.

DONG Energy already has a team of around 50 people working on the operation of Westernmost Rough, and a construction base in the Grimsby Fish Dock from which Race Bank is being built.

2 GEV Wind Power

GEV Wind Power are a turbine maintenance company specializing in blade inspection and repair. The company have a number of highly trained technicians who have worked on windfarms across the UK, Belgium, Germany and Denmark.

3 REDS Marine Ltd

Siemens are investing around £160m in the Green Port Hull facility, which forms part of a £310m combined investment from Siemens and ABP which will result in the creation of 1000 direct jobs in the UK. There are three significant elements across the 54 hectare site at Green Port Hull:

1. Project execution site at Alexandra Dock
2. Blade manufacturing facility at Alexandra Dock
3. Logistics and distribution centre to support service activity

Key contract awards to UK companies:

- Volker Fitzpatrick: Main contractor for construction of Blade factory
- Neville Tucker Heating: £13m contract for Mechanical & Electrical works
- Mrугтом: £11m contract for construction of Service Warehouse
- Hull College Group: £1m contract for training
- ALE: £24m framework for deployment of cranes, specialised transport equipment and personnel
- Street Cranes: £3m contract for supply of overhead cranes
- Turner Timber Frames: £360k contract for supply of timber walk-ways

The first blades will be produced by the factory shortly and future production will support both UK and overseas projects.

4 AMS No-Dig

AMS No-Dig were awarded a contract from DONG Energy to design, supply and install cable ducts for Hornsea Project One.

5 Siemens

Siemens

Siemens has long had a presence in Grimsby, and the scale of its operations in the area led the company to decide to build a permanent O&M base in Grimsby. RES provides operations and maintenance support to a number of wind farms near the coast. RES also recently signed a contract to service the meteorological mast for the Blyth Offshore Wind Demonstration Project (near the Northumberland coast), which its Grimsby team will work on. The team also does similar work for the proposed Hornsea and Dogger Bank offshore wind projects.

6 Boston Energy

Boston Energy supplies engineers and technicians to the offshore wind industry. The company are able to support pre-assembly, installation, commissioning, operations and maintenance activities.

7 RES

RES has just completed a 1000MW offshore wind farm which is set to be fully operational in 2019. The project, Hornsea Project One, will have a capacity of up to 1.2GW and will be the world’s largest offshore wind farm when operational.

N.B. The case studies included are intended to provide a representation of the types of projects and companies active across the offshore wind supply chain.

All information in this document is provided by RenewableUK and has been sourced from either Offshore Wind Week Partners or publicly available information. The information is correct as of October 2016.

*Project Spotlight*

**Hornsea Projects — DONG Energy**

DONG Energy is currently constructing Hornsea Project One of the Yorkshire coast, which will have a capacity of 1.2GW and will be the world’s largest offshore wind farm when operational. Balfour Beatty has been awarded a contract for the onshore substation which will be located in North Killingholme in North Lincolnshire. More than £25 million of work is planned under this contract.

There are further Hornsea projects in the pipeline as well. Hornsea Project Two was recently granted development consent and will have a capacity of up to 1.8GW. Hornsea Project Three, located to the east of Project One and Project Two, is currently in consultation and has a maximum capacity of 2.4GW.

**Boston Energy**

Boston Energy supplies engineers and technicians to the offshore wind industry. The company are able to support pre-assembly, installation, commissioning, operations and maintenance activities.

**RES**

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