

Burbo Bank Extension Offshore Wind Farm



Orsted

Welcome to Burbo Bank Extension

The Burbo Bank Extension Offshore Wind Farm has been fully operational since 2017 and comprises of 32 turbines with a combined total capacity of 258 MW.

Ørsted is the largest offshore wind developer in both the world and the UK. Since 2004 we have been developing, constructing and operating offshore wind farms in the UK – our biggest market. Our 12 operational offshore wind farms are powering 4.4 million homes and with another one in construction this number will rise to 5.6 million homes by 2022.

In addition to our offshore wind farms, we construct battery-storage projects, innovative waste and recycling technology and provide smart energy products to our commercial and industrial customers. We currently employ 1,000 people in the UK and by the end of 2021, we will have invested over £13 billion building offshore wind farms in the UK.

We are committed for the long-term, both to leading the green transformation, and to investing in the communities where we operate.



Wind power under construction



Wind power in operation

Where is it?

The Burbo Bank Extension Offshore Wind Farm is situated on the Burbo Flats in Liverpool Bay at the entrance to the River Mersey, approximately 7 km (4.3 miles) north of the North Wirral coast near the village of Meols.



 Burbo Bank Extension Offshore Wind Farm

 Cable Corridor / Route

 Onshore Substation

 Operations and Maintenance Base

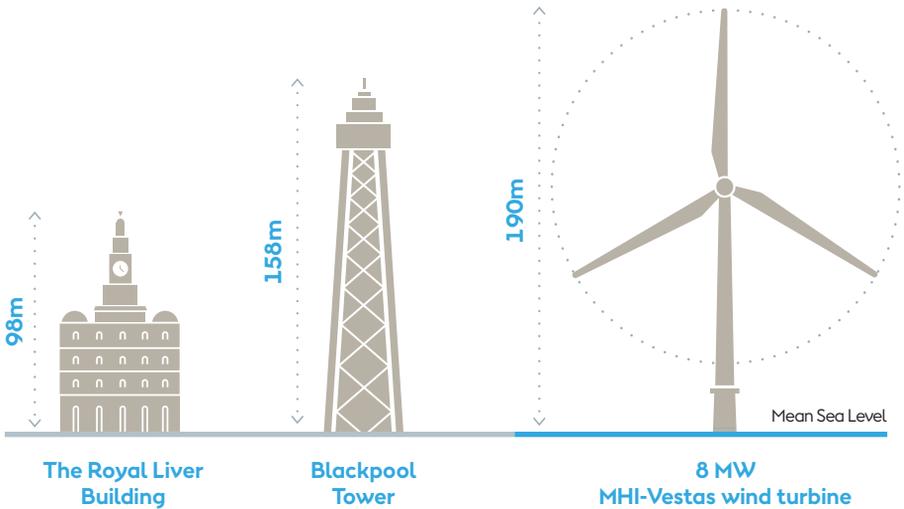
Ownership

The project is owned by Ørsted (50%), PKA (25%) and KIRKBI A/S (25%).

How big is it?

The project consists of **40 km²**.

This is equal to **5,824** Anfield football pitches.



How much clean electricity will it produce?



The project has a capacity of

258 MW



This means that each year it will provide enough power for over

230,000 homes¹

What is our impact on the local economy and community?

A new Operations and Maintenance base has been built at Kings Wharf, Birkenhead, which services our two operating wind farms in the area, Burbo Bank and Burbo Bank Extension. The building is used for the storage of materials and equipment required for the ongoing maintenance of the wind farm and comprises a storage warehouse along with office space, changing rooms, and welfare and ancillary facilities across two floors and was completed by Robertson North West. This multi-million-pound project provides a base for 45 full-time staff and by 2025, we expect to have contributed £70 million in Gross Value Added in the Liverpool city area.

Community Benefit Fund

At Ørsted we are committed to continued engagement with the local areas in which we work. We have committed to a Community Benefit Fund for Burbo Bank Extension, which is worth up to £225,000 per year for the lifetime of the project. There are two rounds of applications per year. Independent charity GrantScape is responsible for administering the fund. Members of the public were actively invited to consult on the fund structure and a local advisory group has been set up to help decide which local groups can benefit from the fund.

To find out more, please visit: www.ored.co.uk/communitybenefitfunds

¹ This based on an average household electricity consumption of 3,861 MWh and five-year average load factor for offshore wind of 39.47% (BEIS, 2019; DUKES, 2020).

Project Timeline



May
2010

The Crown Estate awarded Agreement for Lease to extend the Burbo Bank Offshore Wind Farm over a 40 km² area



September
2014

Consents awarded based on a capacity up to 258 MW



December
2014

Final investment, decision made to construct Burbo Bank Extension



February
2015

Onshore construction started



June
2016

Offshore construction started



November
2016

First power generated



May
2017

Fully commissioned and operational

What makes the project special?

Burbo Bank Extension is the first project in the world to use MHI-Vestas V164 8.0 MW wind turbines. These are newly developed wind turbines which have more than double the capacity of the 3.6 MW wind turbines used at the existing Burbo Bank Offshore Wind Farm.

Our new state of the art operations and maintenance facility is located at Kings Wharf, Birkenhead. This facility is where routine monitoring and management of both Burbo Bank Extension and Burbo Bank Offshore Wind Farm takes place.

// The addition of Burbo Extension has been an exciting time for the team. We've more than doubled the number of turbines but nearly quadrupled the power output. Another first for the industry, we've installed MHI-Vestas 8 MW wind turbines. These increases meant a new facility to support the operation was required. We have improved efficiencies and continue to drive safe clean electricity production.

Lee Rollason, Head of Burbo Operations

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