

# Burbo Bank Offshore Wind Farm



 Orsted

# Welcome to Burbo Bank

Burbo Bank Offshore Wind Farm has been fully operational since 2007 and comprises 25 turbines with a total capacity of 90 MW. An extension to the project completed construction in 2017 and is fully operational.

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.



## Where is it?

Burbo Bank Offshore Wind Farm is situated on the Burbo Flats in Liverpool Bay at the entrance to the River Mersey, approximately 6.4 km (4.0 miles) from the Sefton coastline and 7.2 km (4.5 miles) from North Wirral.



 Burbo Bank Offshore Wind Farm

 Cable Corridor / Route

 Onshore Substation

 Operations and Maintenance Base

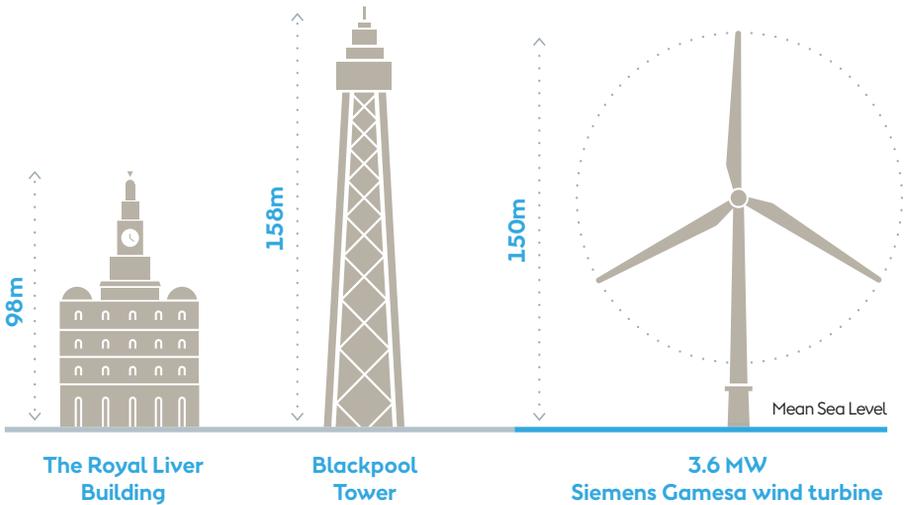
## Ownership

The project is 100% owned by Ørsted.

## How big is it?

The area covered is **10 km<sup>2</sup>**.

This is equal to **1,400**  
Anfield football pitches.



## How much clean electricity does it produce?



The project has a capacity of **90** MW



It provides enough power for over **80,000** homes<sup>1</sup>

## 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, office space, changing rooms, and welfare and ancillary facilities across two floors. It 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.



<sup>1</sup> 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



April  
**2001**

Awarded a lease from the Crown Estate to develop an offshore wind farm at Burbo Bank under Round 1 of leasing



September  
**2002**

Development began



December  
**2005**

Final investment decision announced



June  
**2006**

Onshore construction began



May  
**2007**

Offshore construction began



July  
**2007**

First power generated



October  
**2007**

Fully commissioned and operational

## What makes the project special?

Burbo Bank has 25 Siemens Gamesa 3.6 MW wind turbines and was the first site where they were commercially deployed. Burbo Bank has pioneered the use of this turbine model and is now the longest operating site. The lessons learned at Burbo Bank have been refined and applied to all of Ørsted's operating assets across Europe.

// Burbo Bank has continued to produce clean electricity for over 12 years. The recent introduction of 2 MW battery storage on our onshore substation further cements the Burbo team, and Ørsted, as trailblazers in the industry. The battery storage can provide essential frequency response to the grid when required to stabilise the supply.

**Lee Rollason**, Head of Burbo Operations

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