Walney Offshore Wind Farm
Welcome to Walney

Walney Offshore Wind Farm has been fully operational since 2012 and consists of two stages: Walney 1 and Walney 2. Each of the stages comprises of 51 turbines and the total combined capacity of the wind farm is 367 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 11 operational offshore wind farms are powering over 3.2 million homes and with another two in construction this number will rise to 5.5 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 have already invested over £9.5 billion. We will invest at least a further £3.5 billion by 2021.

We are committed for the long-term, both to leading the change to green energy, and to investing in the communities where we operate.
Walney Offshore Wind Farm is located approximately 15 km (9.3 miles) from the coastline of Walney Island.
Ownership

The project is owned by Orsted (50.1%), SSE (25.1%) and OPW (24.8%).

How big is it?

The area covered is 73 km$^2$.

This is equal to 10,400 Holker Street pitches, home to Barrow A.F.C.
How much clean electricity does it produce?

Walney 1 and 2 have a total capacity of 367 MW. This means it will provide enough power for around 320,000 homes.\(^1\)

What is our impact on the local economy and community?

Ørsted’s decision to use the Port of Barrow for the O&M facilities for Walney 1+2 has had a tremendous impact locally.

The multi-million-pound investment from Ørsted has led to new ABP facilities on the port estate including a new state of the art lead-in jetty. Indeed, the Ørsted developments have supported the continued transformation of the port, which now has a very bright long-term future supporting some 12,100 jobs and contributing £781 million GVA annually.

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\(^1\) We have based this on the BEIS 5-year average load factor of 38.6% and a household consumption of 3,828 kWh per year. Source: BEIS DUKES (2018), BEIS ECUK (2018)
Project Timeline

2003
Awarded a lease from the Crown Estate to develop an offshore wind farm at Walney under Round 2 of leasing

2008 - 2009
Geotechnical investigations

2009 - 2010
Tender, planning and design

2010 - 2011
Construction

2011
First power and commissioning of Walney 1

2012
First power and commissioning of Walney 2
What makes this project special?

The project was the first to deploy the Siemens Gamesa 3.6 MW 120m wind turbine in the UK.

Walney Offshore Wind Farm was a ground breaking project for Ørsted as it was the first to be built using specialist installation vessels and a ‘rapid build’ programme. It has since become the blueprint for subsequent offshore wind farms. Walney is a solid performer in the Ørsted fleet and will be a reliable and clean source of electricity for future generations.

Hugh Yendole, Portfolio Asset Manager