

Hornsea One Offshore Wind Farm



 Orsted

Welcome to Hornsea One

Hornsea One is the largest offshore wind farm in the world, comprising of 174 turbines with a combined total capacity of 1.2 GW.

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.

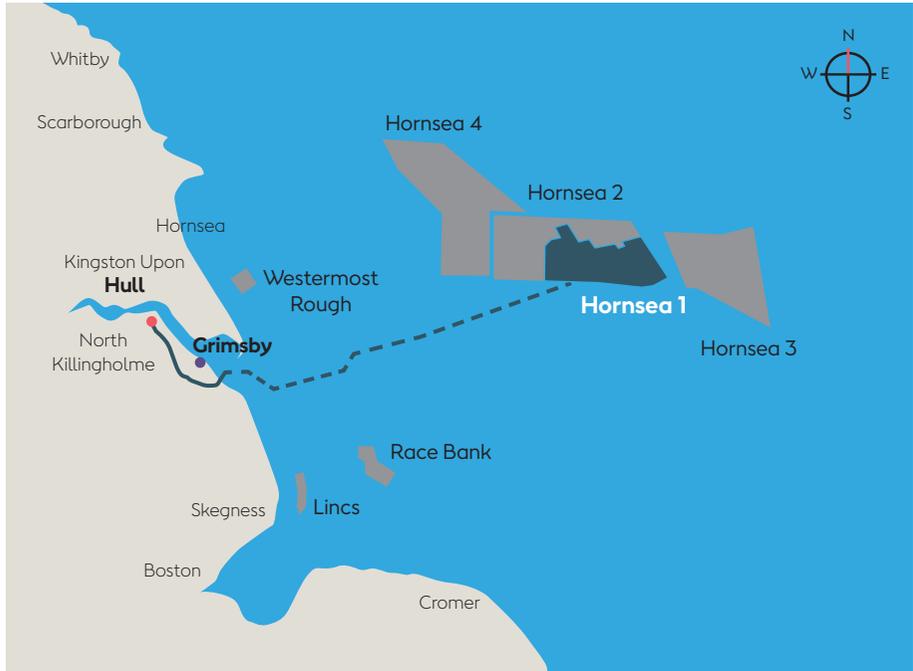
In addition to our offshore wind farms, we construct battery-storage projects, innovative waste and recycling technology and provide smart energy products to our commercial and industrial customers. We currently employ 1,000 people in the UK and by the end of 2021, we will have invested over £13 billion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

Hornsea One will be located 120 km (74.6 miles) off the Yorkshire coast in an area covering approximately 407 km² (157.2 sq mi).



 Hornsea One Offshore Wind Farm

 Cable Corridor / Route

 Onshore Substation

 Operations and Maintenance Base

Ownership

The project is 50% owned by Ørsted and 50% owned by Global Infrastructure Partners (GIP).

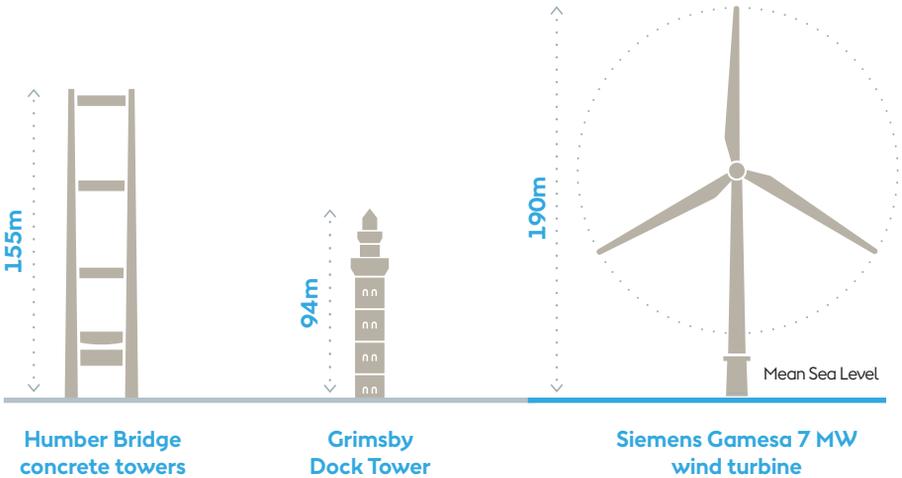
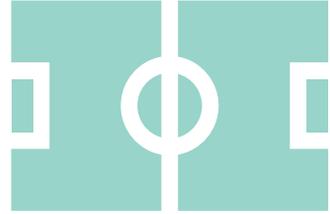
How big is it?

The project will span an offshore area of

407 km².

This is equal to **58,500** times the size of Blundell Park, home of Grimsby Town F.C.

The 120 km distance from shore to the wind farm is greater than the distance from Sheffield to Hull.



East Coast Community Benefit Fund

At Ørsted we are committed to continued engagement with the local communities in areas in which we work. We have committed to a Community Benefit Fund for the East Coast, which is worth approximately £465,000 (£75,000 of this is ring-fenced for a "Skills Fund") per year from 2017 to 2037, a term of 20 years. This fund recognises the long-term relationship which the Race Bank and Hornsea Offshore Wind Farms have with the local region and will support community and environmental projects in coastal areas of Yorkshire, Lincolnshire and North Norfolk (as far as Wells-next-the-Sea).

To find out more, please visit:
[www.ored.co.uk/
communitybenefitfunds](http://www.ored.co.uk/communitybenefitfunds)



Ørsted apprenticeship scheme

The East Coast Hub facility in Grimsby is currently the base for 16 offshore wind turbine technician apprentices. Our first cohort of 4 apprentices (2017) have now completed their apprenticeship and have started their career as wind turbine technicians. We're committed to securing a workforce for the future and providing opportunities for local communities and we are looking forward to welcoming our next cohort and continuing to recruit.

Our three year apprenticeship scheme in partnership with Grimsby Institute offers our apprentices a mixture of classroom based learning and practical on site and offshore experience to gain the knowledge and skills they need for their future career as wind turbine technicians.



How much clean electricity will it produce?



The project has a capacity of

1.2 GW



This means the project provides enough power for well over

1 million homes¹

What is our impact on the local economy and community?

Hornsea One offshore wind farm is operated and maintained from the East Coast Hub in Grimsby which supports a workforce of more than 350 people. During the construction phase of Hornsea One more than 3,000 roles were supported.

We are embedded in the communities and places where we operate and are proud to support business membership organisations, skills initiatives / events, the Ørsted Great Grimsby 10k, partnership projects such as the Greater Grimsby Town Deal and more to demonstrate our long-term commitment to the area.

Growing our UK supply chain is important to us and we use a number of local companies to support our operation and most recently local construction firm Hobson & Porter completed the £10m expansion to our East Coast Hub – now the largest offshore wind operations and maintenance facility in the world.

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



December
2014

Development Consent granted by Secretary of State



February
2015

Full ownership taken over from Smart Wind



January
2016

Onshore substation site construction begins



September
2016

Onshore cable construction works begin



April
2017

Landfall cable construction works begin



January
2018

Offshore construction begins



2020

Fully operational

What makes this project special?

At 1.2 GW and with the capacity to power over 1 million homes, Hornsea One is the world's largest offshore wind farm.

// Hornsea One is the first offshore wind farm with a capacity of over 1 GW. To make this next generation of wind farm possible, the entire supply chain has really stepped up, improving products and processes, refining skills and together leading offshore wind to its market leading position, where it is now competitive on cost of electricity.

I'm confident we will continue to work to the high standards already demonstrated, and together, the biggest renewable energy project in the UK.

Duncan Clark, Head of Region UK

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