

Orsted  
Community  
Newsletter

January  
2021



Hornsea  
One and Two  
Offshore  
Wind Farms

# Welcome to the latest community newsletter for Hornsea One and Two

I am delighted to announce that work on Hornsea Two remains on schedule, despite the impact of the coronavirus. We reached a number of important milestones on the project in the final months of 2020, including installation of all onshore cables, which are now in the ground. Other onshore construction works will continue to take place in 2021.

Offshore construction works have also commenced as the project's offshore substation foundations have now been lifted and installed into their final positions. Although works on the project have quietened down during the winter months, we remain well on schedule for Hornsea Two to become fully operational in 2022.

At Ørsted, we are delighted to announce that we are investing £1 million towards a new Youth Zone that will support thousands of young people in Grimsby and the surrounding area.



**Patrick Harnett**

Senior Programme Director, Hornsea Two

## About Ørsted

We are a renewable energy company with **the vision to create a world that runs entirely on green energy**. Climate change is one of the biggest challenges for life on earth; we need to transform the way we power the world.

We have invested significantly in the UK, where we now develop, construct and operate offshore wind farms and innovative biotechnology which generates energy from household waste without incineration.

Over the last decade, we have undergone a truly green transformation, halving our CO<sub>2</sub> emissions and focussing our activities on renewable sources of energy.

**We want to revolutionise the way we provide power to people** by developing market leading green energy solutions that benefit the planet and our customers alike.

# Where are the Hornsea offshore wind farm projects?



■ Hornsea One and Two

■ Hornsea Three

■ Proposed location of Hornsea Four

■ Operational Ørsted offshore wind farms

Hornsea One is located 120 km from the Yorkshire coast and is now commercially operational.

Hornsea Two is adjacent to Hornsea One and will be situated 89 km from the coast.

Hornsea Three could generate enough green electricity to power well over 2 million UK homes and will connect into the national grid in Norfolk. The project has recently been granted development consent from the UK Government. To find out more, please visit: [www.hornseaproject3.co.uk](http://www.hornseaproject3.co.uk)

Hornsea Four has recently undertaken a pre-application consultation and is due to submit a Development Consent Order (DCO) application in early 2021. For further information on the proposals, please visit: [www.hornseaprojects.co.uk/Hornsea-Project-Four](http://www.hornseaprojects.co.uk/Hornsea-Project-Four)

# Hornsea Two offshore wind farm



**Hornsea Two has a capacity of 1.4 GW**



**It will provide enough power on average for more than 1.3 million homes**



**The wind farm is located 89 km off the coast of Yorkshire**



**The onshore cable route will run in parallel to that of Hornsea One — between landfall at Horseshoe Point and the onshore substation in North Killingholme**



**Hornsea Two is due to become commercially operational by 2022**

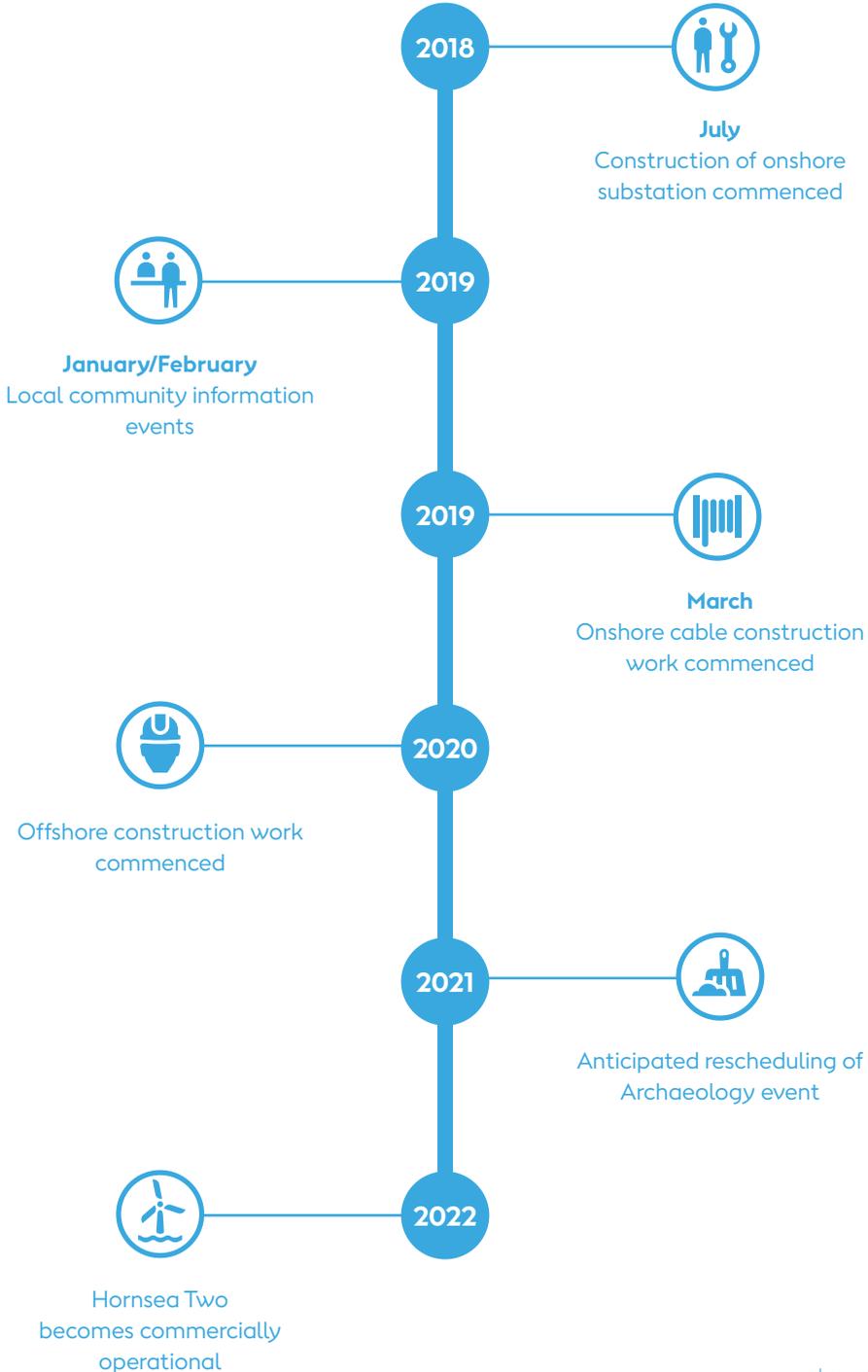


**Onshore cables have now been installed**



**Archaeological investigations along the cable route have now been completed**

# Hornsea Two timeline



# Latest news

Construction work along the onshore route has been progressing with onshore cable route installation, reinstatement works, onshore substation jointing and termination works taking place.

All high voltage equipment is now installed at the onshore substation and 'Site Acceptance' tests have also been successfully completed. The underground cables connecting the substation to the national grid have now been installed. We are now entering the final stages of these works where the final pieces of equipment will be installed, allowing the electricity generated by our wind farms to feed into the national grid.

In addition to this, the civil works are nearing completion and construction of the substation is expected to be completed by spring 2021. We are delighted to announce that the commissioning and site integration testing is ongoing and on course for completion in time for energisation with National Grid in April this year.

In our previous newsletter, we highlighted the significant milestone reached in installing 2.4 km of cable towards the landfall site at Horseshoe Point. Once this has been completed this year, the beach will be reinstated back to its previous state, as we are doing with reinstatement works on the cable route.

Offshore construction officially commenced with the installation of the 4,800-tonne jacket, which will be the foundation for the offshore substation. With this remarkable feat of engineering, we're on track for fabricating the world's largest Alternating Current (AC) offshore substation, which will be supported by this gigantic steel structure.

Route preparation and planning is currently underway with manufacturing of components for the offshore wind turbines and foundation installation campaign, which will continue throughout this year.



Aerial photograph of the Hornsea Two onshore substation



# Horizon Youth Zone

Ørsted is delighted to announce that it is to invest £1 million towards a new Youth Zone that will support thousands of young people in Grimsby and the surrounding area.

Once open, the Horizon Youth Zone will also create over 50 jobs and provide a range of volunteering opportunities for local people. Ørsted is committed to working with OnSide, along with local project partners, to provide funding over a five-year period, also helping to further Grimsby's regeneration ambitions.

Open 7 days a week, the Horizon Youth Zone will engage with over 4,000 young people in its first year of operation, providing a safe space

for the young people of the area to go during their leisure time. The Youth Zone, as a result of Ørsted's donation, will give young people a choice of over 20 daily activities, including indoor climbing, sports, music, and cooking activities.

Horizon Youth Zone will not just be open for the facilitation of leisure time for young people but will also provide support for those who are not in education, employment or training through the Youth Zone's Employability Enterprise Programme. This programme will see specialist youth workers and partners come in to aid these young people towards a more healthy, happier and aspirational future.



Over £1 million worth of funding provided

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This is an extraordinary multi-generational donation by Ørsted who are such an important part of the renewable energy sector that drives the industry and innovation of tomorrow.

By stepping forward in this way, they are playing an important role to enable thousands of young people in Grimsby to discover their talents, develop their skills and realise their full potential. On behalf of Grimsby's OnSide Youth Zone – thank you!

**Tom Shutes**, Chair of Horizon Youth Zone.

This donation further demonstrates Ørsted's long-term commitment to the town and has a meaningful, long-term impact for the people living there. Ørsted's **'Building Our Future'** video showcases the local people who are proud to live and work in the area, where the positive difference made by renewable energy is clearly shown: [bit.ly/VideoYZ](https://bit.ly/VideoYZ)

For more information, please visit: [horizonyouthzone.org](https://horizonyouthzone.org)



# A day in the life

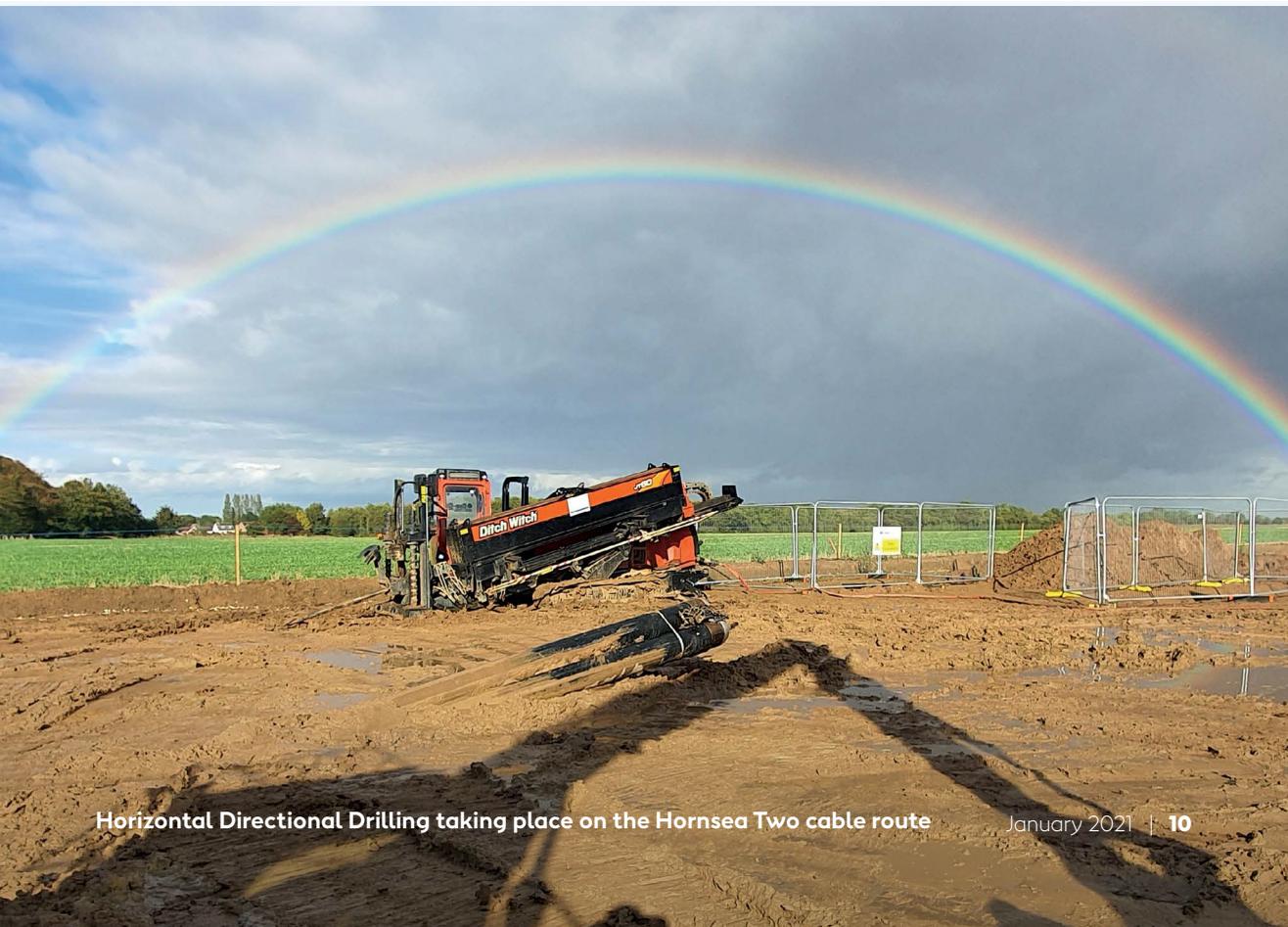
At Ørsted, we are on a journey to create a world that runs entirely on green energy. Every one of our employees plays a vital role in fulfilling this vision.

In this edition, we are exploring the work that is involved in Horizontal Directional Drilling (HDD), a trenchless cable installation technique utilised for Hornsea Two.

On our projects, HDD is incredibly important as it allows us to progress cable installation without interfering with a number of important structures, such as roads and train tracks, as well as avoiding the removal of large trees and other important pieces of nature.

Please meet Paul Riches, our HDD Installation Supervisor who is currently working on the Hornsea Two cable route.

Paul has been working for Ørsted since 2017. Prior to this, he gained experience in the field of drilling engineering when working in the oil and gas industry, first as a multi-lateral drilling technician, then working his way up to Directional Drilling. Paul's expertise has taken him around the world, working in Aberdeen but also as far as Erbil in Iraq. Now Paul finds himself in Lincolnshire, working for Ørsted and helping to deliver our vision to create a world that runs entirely on green energy.





**Paul Riches,**  
HDD Installation Supervisor

**Paul explains:**

As HDD Supervisor, my primary responsibility is always to ensure the highest levels of safety on site. This involves ensuring that the HDD crossings comply with certain quality standards, as well as oversight of the welding of all high-density polyethylene pipe ducting and drilling operations and Quality Assurance once drilling has been completed.

On Hornsea Two, Paul has had oversight of the entire 38 km onshore cable route, where 65 HDD crossing sites were identified. This has included over 200 individual drills going beneath ditches, roads, water sources, railways, highways, utility crossings and more.

My day-to-day tasks often vary, however it often comprises of some desk-based tasks such as checking the engineering designs of the drills, Quality Assurance of completed drills, attending coordination and safety meetings, and assessing challenges posed by HDD activities. Outside of the office, I spend my time ensuring that the HDDs are completed safely and on schedule, also making sure that they meet Ørsted's specifications.

Hornsea Two has also raised some particular challenges by obstacles and environmental conditions, including drilling beneath a number of complex structures. This included beneath major roads, such as the A46 and A180, underneath major utilities, such as National Grid gas lines, water pipes, and National Rail lines, along with wildlife sites, such as a badger sett and newt habitat. Our longest drill was also over 400 metres long, going beneath World War Two air raid shelters in the area.

Although these events proved to be challenging, I am delighted to share that the HDD work managed to be completed without damaging these important pieces of infrastructure, wildlife and local history.

# LS Cables donate Christmas tree to local primary school

Since being appointed to work on Hornsea Two in October 2018, LS Cables have played an important role in helping to deliver the project safely and on schedule. This includes construction of the onshore substation as it nears completion. All teams are motivated to complete installation of electrical equipment this year, prior to high voltage testing.

The team are also continuing to communicate and work successfully with principle contractor Siemens with works underway at National Grid. LS Cables also worked closely with subcontractors ECS to complete works on the two remaining joint bays in December 2020.

Aside from these construction related activities, LS Cables have once again donated and installed a Christmas tree at Tetney Primary School. This donation, which is independent of the funding provided by Ørsted as part of the East Coast Community Fund, reinforces our contractors' commitment to having a positive impact in the local community, especially during these challenging times.

At Ørsted we would like to thank our contractors for their continued hard work in developing what will be the largest and best value offshore wind farm in the world.



# East Coast Community Fund

Since the East Coast Community Fund (ECCF) was established in 2016, we are proud to announce that as of January 2021, over £1.75 million has been awarded to over 130 groups in the local community to support various organisations including food banks, charities, community centres and more.

Ørsted have committed to the ECCF grants worth £465,000 annually, with two funding rounds each year. The last round of funding was announced in January 2021, with 12 successful applicants receiving funding totalling just under £200,000.

The closing date for our next round of applications is on 03 February 2021 and is currently accepting applications. We encourage applications from all groups with an interest in receiving funding, with the following temporary criteria changes extended to the next round, which closes on 28 July 2021:

- No match funding will be required for all applications at this time.
- Re-application restrictions have been lifted. Any groups that have previously received a grant, have a live project or have been unsuccessful in the last round may re-apply.

All of Ørsted's Community Benefit Funds, including the ECCF, are administered by independent grant-making charity, GrantScape. The decision-making process is supported by a local Advisory Group (AG).

For more information, please visit:

[www.ored.co.uk/communitybenefitfunds](http://www.ored.co.uk/communitybenefitfunds)

Contact GrantScape on **01908 247634** or via email at [eccf@grantscape.org.uk](mailto:eccf@grantscape.org.uk)



At Ørsted, we wanted to ensure that support will continue to be available during these unprecedented times, with many groups affected by the Covid-19 pandemic. Therefore, we have decided to adjust the criteria for each fund to ensure all interested groups have easier access to our grants.

**Imran Nawaz**, Stakeholder Advisor and Community Benefit Fund Manager for Ørsted

# Community engagement methods

We have a range of engagement initiatives which allow you to follow the progress of the projects or to contact us with your questions. These include:



## Local engagement

The project team meets with several parish councils to share plans and engage with the local community.



## Website

[orsted.co.uk](http://orsted.co.uk)



## Twitter

@OrstedUK



## Freephone information line

0800 111 4478

The Freephone information line is open for calls between 9am and 5pm, Monday to Friday, with an answer phone facility to take messages outside these hours.



## Community liaison officer

We have a dedicated CLO, Dereth Morgan, who covers both projects in an onshore capacity. Dereth is the first point of contact for onshore enquiries from the local community.

You can contact Dereth by calling **07472 617 839**

or by emailing [community@hornsea1and2.co.uk](mailto:community@hornsea1and2.co.uk)



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