



# Hornsea Two Offshore Wind Farm

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

I am happy to announce that work on Hornsea Two continues to progress on schedule thanks to the dedicated work and planning of both Ørsted staff and our contractors. In our last newsletter, we provided an update that all onshore cable installation work has been completed on the project as of December 2020. Since then, we have reached a further milestone in the project as all land reinstatement has now been completed on the cable route.

Our offshore work has continued to progress as the first wind turbine was installed on HOW02 in June. This turbine will be the first of an array of 165 turbines in what will become the world's largest offshore wind farm.

At Ørsted, we are delighted with the success that the Thrive Safety Leadership Centre has had in improving the health and safety training of over 600 people. This could not be achieved without our safety leadership partners Active Training Team.



**Patrick Harnett**  
Senior Programme Director, Hornsea Two

## About Ørsted

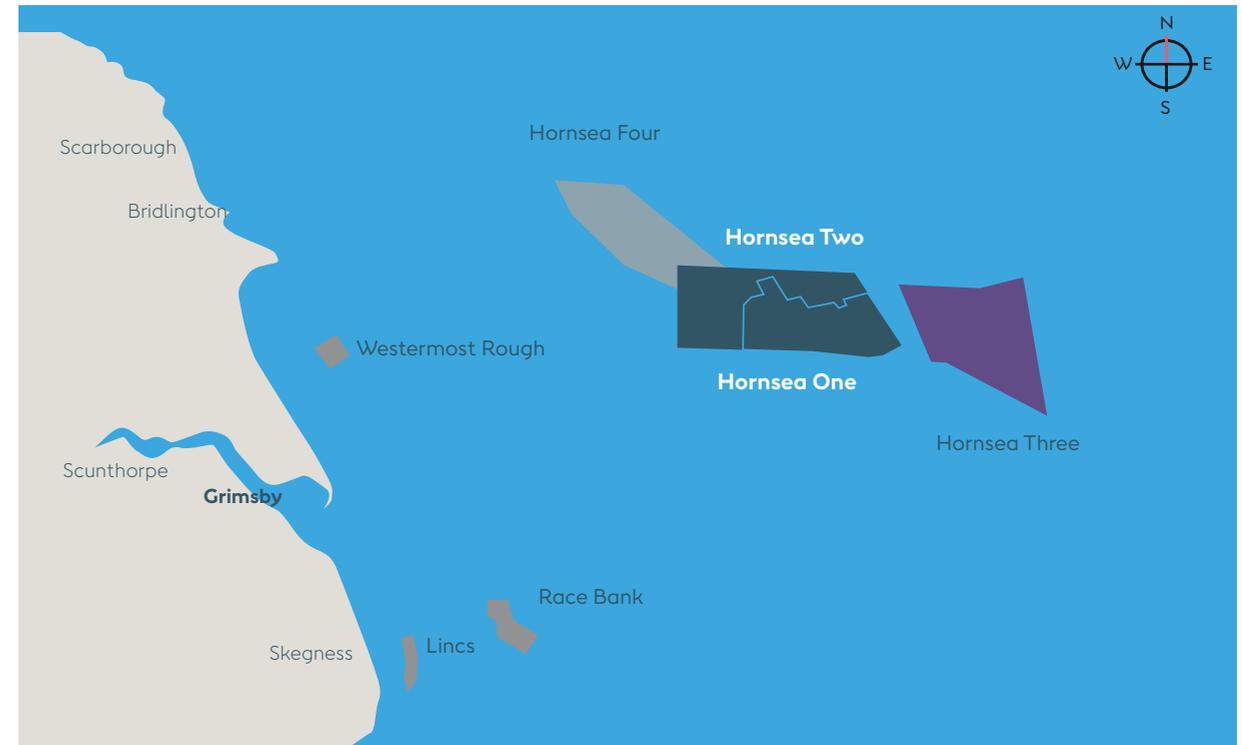
We are a renewable energy company with **the vision to create a world that runs entirely on green energy**. Climate change is one of the biggest challenges for life on earth; we need to transform the way we power the world.

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: [hornseaproject3.co.uk](https://www.hornseaproject3.co.uk)

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

# Hornsea Two offshore wind farm



Hornsea Two has a capacity of 1.4 gigawatts (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 runs 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 fully commercially operational in 2022

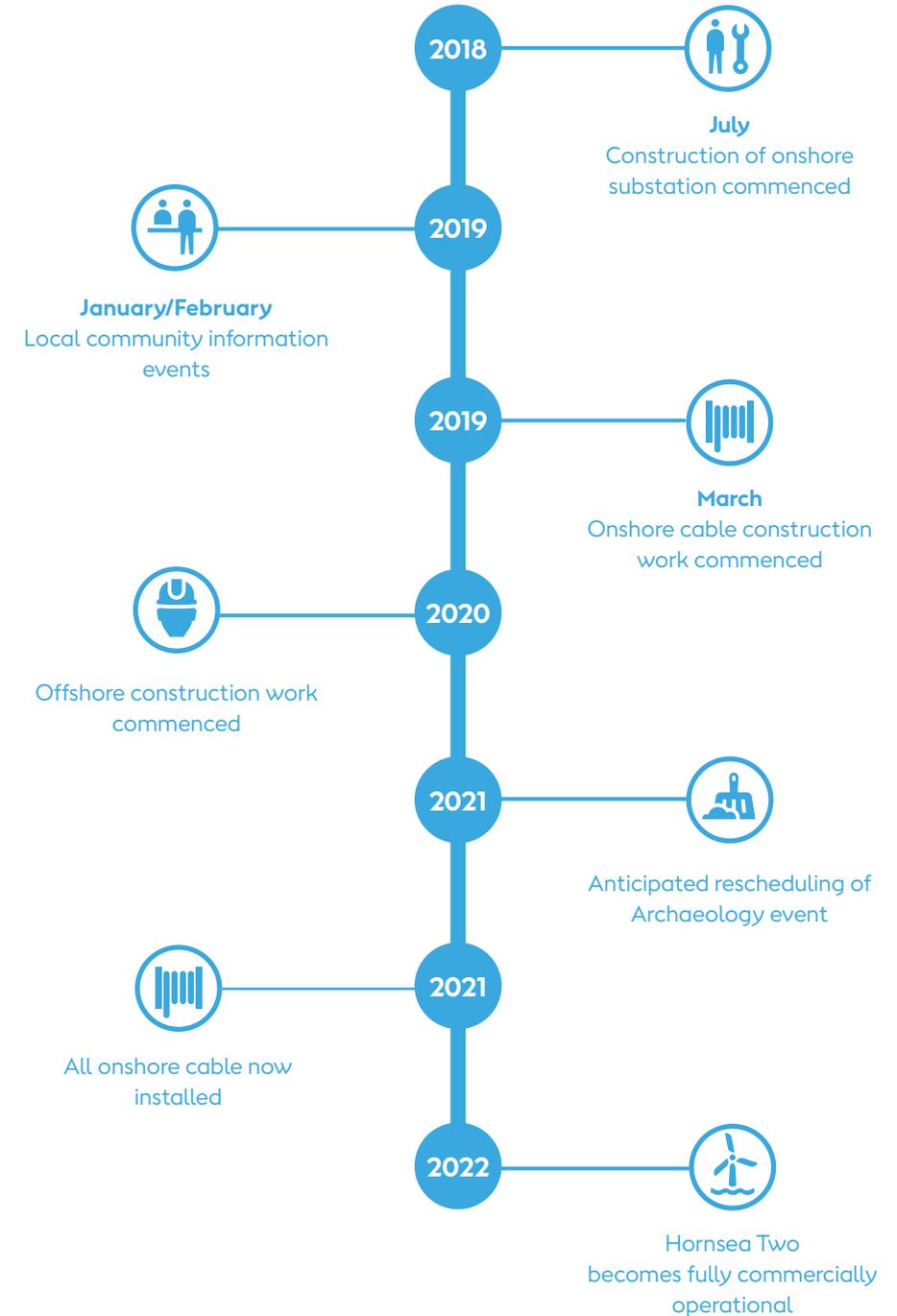


Onshore cables have now been installed



Archaeological investigations along the cable route have now been completed

# Hornsea Two timeline



## Latest news - offshore

In our previous newsletter we highlighted that offshore works were progressing well with the installation of the offshore substation foundations, with Hornsea Two on schedule to become fully commercially operational in 2022. We can now announce another important milestone on the project as our first turbine has now been installed at Hornsea Two.

In late May, Ørsted announced that the first loadout of turbines left the port of Hull via the installation vessel Sea Challenger. The vessel owned by DEME Offshore was equipped with components for four individual turbines, including the 81 meter long blades that have been manufactured at Siemens Gamesa Renewable Energy's blade factory in Hull.

The completed array will see 165.8 megawatt (MW) Siemens turbines installed offshore, each standing 200 meters above sea level, with a rotor diameter of 167 meters. One spin of a single turbine alone would provide enough energy for 160,000 hour-long video conferences.



Installed 8 MW turbine on HOW02



Reinstated land on Hornsea Two cable route

## Latest news - onshore

We are delighted to announce that all reinstatement has now been completed along the Hornsea Two onshore cable route. All remaining onshore works are still scheduled to be completed before the end of the year.

At Ørsted, it is important to us that once onshore construction work has been finalised, that the impacted land is returned to the best condition possible. As you can see in the picture, we have put this into practice as the slightly darker grass is the recently reinstated land. Beneath the reinstated land lies the cable which will transfer

the clean energy provided by Hornsea Two to our onshore substation in North Killingholme. Following this the substation will transport the electricity to the National Grid, where Hornsea Two will provide enough power for over 1.3 million homes in the UK.

# 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 working towards this vision.

In this edition, we are exploring the work that is involved in Hornsea Two's offshore cable installation, which requires detailed planning on behalf of both Ørsted and its contractors.

On our projects, the installation of offshore cables is clearly important, as this is how the energy produced by our wind turbines is transferred beneath the seabed, to the offshore substation and then onshore into the National Grid.

Please meet Aoife Duignan, our Senior Cable Installation Manager who is currently working on Hornsea Two.

After graduating as a mechanical engineer, Aoife worked as an analyst designing components that are used on deep-water oil and gas platforms, but quickly moved on to the offshore wind industry to pursue her passion for renewable energy. Aoife first took up a role as a Marine Warranty Surveyor across power cable installation projects before moving to Ørsted to take up the role of Senior Cable Installation Manager.



**Aoife Duignan**  
Senior Cable Installation  
Manager

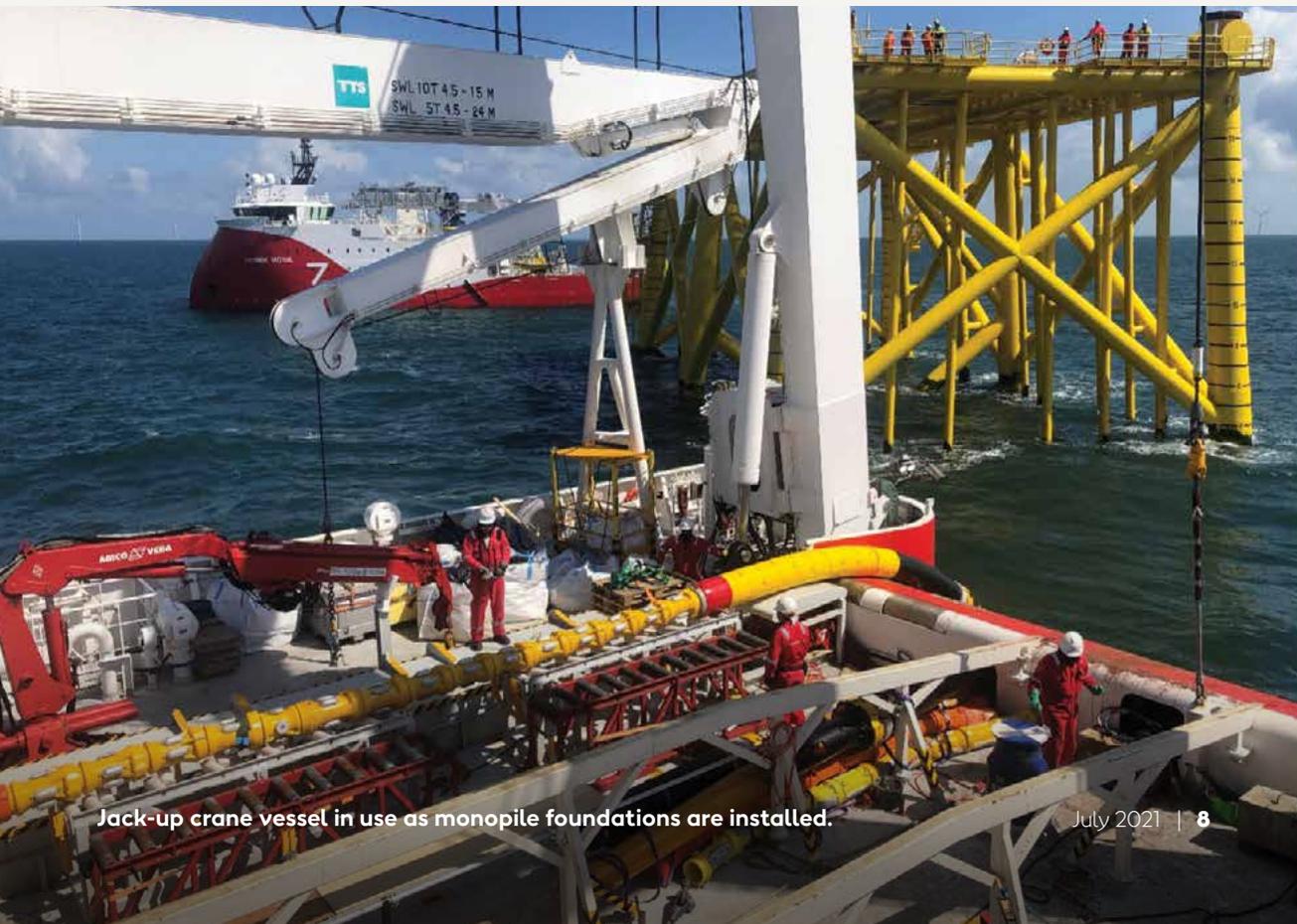
### Aoife explains:

Along with my team, I am now responsible for the Hornsea Two inter-array cable installation package. After we appointed a contractor in 2019, I have worked closely with that contractor to ensure the design, engineering, planning and installation are performed according to our high technical standards, industry best practices and health, safety and environment standards. I am also responsible for ensuring that the progress we make is aligned with the wider project goals and overall construction schedule.

In the engineering phase of the project, my focus was on working with our contractor to develop installation procedures and risk assessments to safely install the Hornsea Two inter-array cables. These cables will link and transmit power from 165 wind turbine generators to the offshore substation. A key responsibility as an installation manager is ensuring our contractors have the up-to-date design information on everything from the cables themselves, to the cable protection systems, the cable supplier loadout facilities, the seabed conditions, and the foundations that the cables are pulled into.

Covid-19 has brought new challenges to every aspect of our work on this project. During the planning phase, working with colleagues and contractors across many countries meant adapting to an almost entirely virtual workplace. Maintaining effective communication and building team bonds had to be approached in a new way, and we are still learning creative ways to do that. We have implemented means of virtual witnessing of tests and trials to cut down on travel wherever possible. For our personnel offshore on the vessels, it is more important than ever to create safe workplaces and we have put into practise testing and self-isolating regimes, working in bubbles and longer rotations and changes to crew change locations to minimise the risks.

Now that we are in the offshore installation phase, with three vessels onsite laying cables, pulling cables into the foundations and burying the cables in the seabed to protect them, daily coordination of these vessels is a key challenge. As Hornsea Two will be the largest offshore windfarm in the world, it also has a very ambitious installation and commissioning schedule. Managing this requires ensuring the right information is conveyed to the right people, every single day, so that we maintain the incredible installation progress we are currently seeing. It also requires detailed planning and a need to maintain flexibility so we can work around each other while taking into account potential delays or bad weather. Efficient communication, tailored to the recipients, is most definitely key.



Jack-up crane vessel in use as monopile foundations are installed.

## Archaeology event

Please join us at our community archaeology event, which will showcase archaeological finds discovered during the installation of our cable route corridor for Hornsea Two.

**Come along to:**

Healing Manor Hotel  
Tuesday 21 September 2021  
12 – 8pm.

See first hand some of the archaeological finds from along our onshore cable route and speak to our team of experts to find out more about the history of the local area, the processes we undertake and how the finds are carefully preserved.



# Community feedback

At Ørsted, we greatly value our relationship with the communities that are in close proximity to our projects. This has continued to be the case throughout the development of Hornsea One and Hornsea Two, from our initial community engagement meetings prior to construction, our distribution of quarterly newsletters, the continued investment in the local area through our East Coast Community Fund, and our community information events.

The way we have engaged with you is important to us, and as the onshore construction of the project is set to be finalised later this year, we would like to know your views on how you have found our ongoing community engagement. Your views will be essential in how Ørsted can continue to improve its relationship with the local community.

We have put together an online feedback form where you can provide your views, please scan the QR code below using the camera on your phone and this will take you to our community engagement feedback form, or click the [link](#) here.

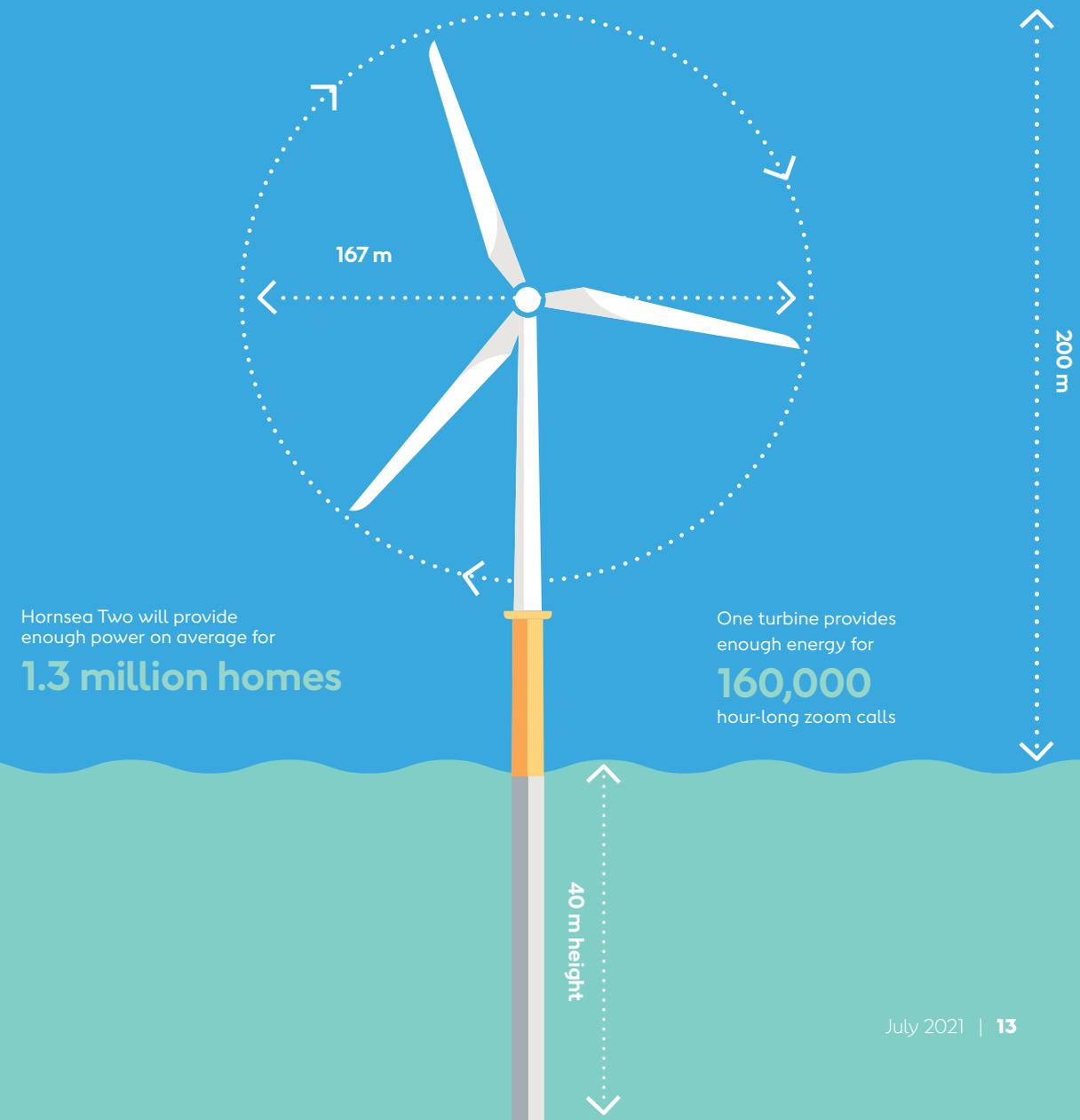
As a thank you for taking the time to do this, you will be entered in a draw to win a £50 Healing Manor gift voucher.



# Hornsea Two wind turbine

**8 MW** Our turbines have an output of 8 MW

**165** turbines will fill the array



Hornsea Two will provide enough power on average for **1.3 million homes**

One turbine provides enough energy for **160,000** hour-long zoom calls

# East Coast Community Fund

Since the East Coast Community Fund (ECCF) was established in 2016, we are proud to announce that as of July 2021, over £2 million has been awarded to 135 projects in the local community. This funding has helped support various organisations, including food banks, charities, community centres and more.

Ørsted have committed to annual ECCF grants worth £465,000 and our previous funding round closed in February. We encourage applications from all groups who are interested in receiving funding to apply, with the next round of applications closing on 28 July 2021.

The following temporary criteria changes which were introduced last year will continue to be applied for this round of funding, to ensure that more groups and organisations will feel supported at this challenging time.

- 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:  
[orsted.co.uk/communitybenefitfunds](https://orsted.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 there for those groups who have been impacted by the pandemic. This is why we have awarded up to £550,000 in funding across our Community Benefit Funds directly related to the impact of Covid-19.

**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](https://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)

Ørsted  
5 Howick Place  
London  
SW1P 1WG

© Ørsted 2021. All rights reserved. No parts of this publication may be reproduced by any means without prior written permission from Ørsted.

All graphics in this document are for illustrative purposes. Dates are based on available information and are subject to change.

