

# HORNSEA PROJECT ONE

---

## OFFSHORE WIND FARM

Community Newsletter

August 2017



# Welcome

## Welcome to the latest community newsletter for Hornsea Project One Offshore Wind Farm.

At DONG Energy, we are focused on engaging with the communities in which we work. If you have any specific questions about Hornsea Project One, please get in touch using the contact details provided at the end of this newsletter.

### Project facts

Once operational, Hornsea Project One will become the largest offshore wind farm in the world – the first to exceed 1GW in capacity.



The project will have a capacity of **1.2GW**, generated by **174** turbines.



This means that each year it will provide enough power for well over **1 million** UK homes.<sup>1</sup>



Hornsea Project One will be located **120km** off the Yorkshire coast, in an area covering approximately 407km<sup>2</sup>.



<sup>1</sup> Assuming a generic 42% load factor and UK annual domestic electricity consumption of 4.115MWh.

# Offshore works

We are currently undertaking the necessary preparations to begin our offshore works. As part of this, a number of pre-installation works are required to enable offshore activity to be carried out safely and efficiently. Following these activities, offshore construction will commence in the coming months.

## What is significant about offshore works for Hornsea Project One?

Hornsea Project One will become the largest offshore wind farm in the world, consisting of up to 174 turbines. These 7MW turbines will be located 120km off the Yorkshire coast, covering an area of approximately 407km<sup>2</sup>. Both the scale of Hornsea Project One and its distance from shore present new challenges and opportunities for the team.

The project's offshore design will consist of the following main components:

- Up to 174 turbines.
- Monopile foundations for each turbine.
- Four offshore substations, constructed on jacket foundations.
- A network of inter-array cables that connect the turbines together and to the offshore substations.
- Three subsea export cables which will transmit electricity from the offshore substations to the landfall site at Horseshoe Point.

## What do offshore works involve?

There are a number of significant stages of offshore works, some of which are described below.

### Enabling works

Pre-installation works include activities such as boulder clearance and the inspection of potential unexploded ordnance (UXO) items. UXO items are non-detonated explosives, typically left over from World War II. So far, 21 confirmed UXO targets are currently planned for safe removal as part of our project works (as of July 2017).



A UXO item on the seabed.

### Offshore export cable installation

Once these enabling activities have been successfully completed, installation of the offshore export cable can begin. Pre-trenching will be undertaken by Tideway Offshore Solutions. Using a sophisticated trenching mechanism, the offshore cable will then be laid and the trenches backfilled.

### Monopile installation

Monopiles are large steel cylinders that will be installed into the seabed by pile driving. The yellow transition pieces, a number of which will be manufactured by Offshore Structures Britain in Teeside, will then be placed on top of the installed monopiles.



An offshore vessel from Tideway Offshore Solutions.

### Turbine installation

The turbines – technically known as Wind Turbine Generators (WTGs) – will then be mounted on the monopile foundations. The turbine installation will use jack-up vessels from A2SEA and Fred. Olsen.

## When will offshore works take place?

Enabling works are currently underway and the next stages of offshore works are anticipated to begin in the coming months. A few key dates are below:

- The preliminary offshore export cable installation works are scheduled to commence in September 2017.
- Scour protection works are planned to start in Q4 2017, with an estimated completion date of Q4 2018.
- Installation of the offshore substations is scheduled to commence in Q2 2018.
- All other offshore works, such as the installation of foundations and inter-array cables, are currently scheduled to commence in early 2018.

## How will we ensure the works are carried out safely?

Health and safety is very important to DONG Energy. We are committed to undertaking the construction and operation of Hornsea Project One in a way that keeps risks to wellbeing and the environment to an absolute minimum. This will involve ensuring that project works meet the overarching DONG Energy Health, Safety and Environment (HSE) systems and standards. Works will also be consistent with the relevant legislation and guidance designed to ensure the safety of all team members working on the construction of Hornsea Project One.

## How will we engage with the fishing community?

We have been continually engaging with stakeholders including the Marine Management Organisation, the Maritime and Coastguard Agency and Trinity House. We are working closely with the commercial fishing industry to minimise any potential disruption and achieve a successful coexistence.

## Fisheries Liaison Officer (FLO)

Nick Garside, our FLO, continues to act as the first point of contact for members of the fishing community for all queries and issues regarding Hornsea Project One. Nick provides a link between the Hornsea Project One team and members of the local fishing industry, and is on hand to help resolve any queries you may have regarding offshore construction works.

You can contact Nick on: **07538 827 013** or **[nick.garside@live.co.uk](mailto:nick.garside@live.co.uk)**



A vessel inspecting for UXO items.



A safely extracted UXO item.

# East Coast Community Fund

DONG Energy is committed to supporting the local communities in which we work, and believe that local people should get a chance to directly benefit from hosting some of the UK's largest energy infrastructure projects.

As part of this commitment, the East Coast Community Fund has been launched. This fund is worth up to £9.3m and will support community and environmental projects in the coastal areas of Yorkshire, Lincolnshire and north Norfolk. It has been established to ensure that local communities directly benefit from our wind farms along the East Coast. The fund is managed and administered on behalf of DONG Energy by independent grant-making specialists, GrantScape.

We are excited to announce that the first round of funding from the East Coast Community Fund has been awarded to 21 highly deserving local organisations, who are now receiving a share of £195,000. Decisions on the next round of funding are expected towards the end of October this year.

## Speaking about the fund, Natasha Nanuck, DONG Energy's Stakeholder Advisor, said:

*"It's really exciting to see such a diverse group of organisations benefit from the East Coast Community Fund, and I look forward to seeing these projects develop. We want people who live in the areas in which we operate to really feel the benefits of these huge infrastructure projects, so this is just one of the ways we ensure we have a positive impact in the local community."*

To find out more about the fund, including how to apply, please visit [www.grantscape.org.uk](http://www.grantscape.org.uk). You can also contact GrantScape directly by calling **01908 247634** or emailing [eccf@grantscape.org.uk](mailto:eccf@grantscape.org.uk).

## Community Liaison Officer (CLO)

Dereth Morgan, our CLO, continues to act as the first point of contact for onshore related queries from the local community regarding this project. Dereth provides a link between the Hornsea Project One team and members of the local community, and is on hand to help resolve any queries you may have.

Please don't hesitate to contact Dereth with any queries or comments regarding Hornsea Project One, the associated construction works or the presence of DONG Energy in your area.



You can contact Dereth on: **07472 617 839** or [community@hornsea-one.co.uk](mailto:community@hornsea-one.co.uk)

# Contact us

To find out more or to ask any questions about Hornsea Project One Offshore Wind Farm:



Call the Freephone project information line on **0800 111 4478**  
(9am to 5pm, Mon-Fri, with an answer phone facility to take calls  
outside of these hours)



Email the enquiries address:  
**HornseaProjectOne@dongenergy.co.uk**



Visit the project website: **www.hornseaprojectone.co.uk**



Should you require this document in large print, audio  
or Braille then please call **0800 111 4478**.

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

Printed on  
recycled paper

