The stories behind our advertising

Advertising doesn’t offer the space and time to tell the whole Equinor story – it can really only catch your attention and encourage you to find out more. So if our advertising has sparked your interest, this is where you’ll be able to discover the details, facts and context behind our ads about supporting the UK energy transition to cleaner power.

Is it high time for hydrogen in the UK?

How can we make the UK’s east coast a carbon capture capital?

Our ads Is it high time for hydrogen in the UK? and How can we make the UK’s east coast a carbon capture capital? are about our work in helping to create the world’s first Net Zero Industrial Cluster in the North East of England.
Zero Carbon Humber

We’re leading a project called Zero Carbon Humber (ZCH) to decarbonise the UK’s biggest industrial cluster. Hydrogen to Humber (H2H) Saltend, led by Equinor, is ZCH’s anchor project. It will establish a world leading hydrogen production plant with carbon capture at px Group’s Saltend Chemicals Park.

The H2H Saltend project will be the starting point for a carbon dioxide (CO2) and hydrogen pipeline network connecting energy-intensive industrial sites throughout the region, offering businesses the options to capture their emissions or fuel-switch to hydrogen. ZCH partners will capture carbon emissions at scale from electricity generation, hydrogen production and industrial processes around the estuary, and then transport the emissions via pipelines to permanent storage in naturally occurring aquifers under the southern North Sea.

Our partners in the ZCH project include (amongst others) Drax, SSE Thermal, National Grid and British Steel. Between us, we expect to protect 55,000 existing jobs in the Humber and create 49,000 new ones, while supporting skills, apprenticeships and educational opportunities in the region.

You can find out more about the vison for Zero Carbon Humber here: https://www.zerocarbon-humber.co.uk/the-vision/

Projected economic benefit

It’s a huge project that we hope will make a massive difference – The Humber contributes £18bn a year to Gross Value Added (GVA) and is home to the UK’s largest industrial cluster. It is also the UK’s most carbon-intensive region. Transitioning away from high carbon emissions to a more sustainable economy would allow the Humber to make a significant contribution to the UK meeting its climate goals.


Carbon Capture and Storage

Equinor is a pioneer in Carbon Capture and Storage (CCS), having been developing technology to make this possible for more than 20 years, and successfully maturing the process from the R&D stage through to operational reality.

Read more about our CCS work here: https://www.equinor.com/en/what-we-do/carbon-capture-and-storage.html

Our other UK decarbonisation projects

We are also involved in other projects to decarbonise industry in the North East of England: Net Zero Teesside (NZT) and the Northern Endurance Partnership (NEP).

Together, ZCH and NZT expect to capture 27 million tonnes of carbon emissions per annum by the mid 2030’s, which is equivalent to the annual energy use of over 8 million UK homes. These emissions will be transported through the pipeline network for sub-sea storage as part of the Northern Endurance Partnership (NEP), which is operated by BP.

You can find out more about NZT here: https://www.netzeroteesside.co.uk/

And read more about the NEP here: https://www.equinor.com/en/where-we-are/united-kingdom/Northern-Endurance-Partnership-NEP.html
How can 5 million homes run on nothing but fresh air?

Why is a sandbank in the North Sea an ideal place to build the energy future?

Where will the energy to boil millions of kettles come from?

Our ads How can 5 million homes run on nothing but fresh air?, Why is a sandbank in the North Sea an ideal place to build the energy future? and Where will the energy to boil millions of kettles come from? are about the work Equinor is doing with offshore wind for the UK.
Offshore wind is at the heart of the UK’s energy transition, and Equinor is playing a pivotal role with more than 5.5m UK homes to be powered by Equinor wind farms.

5m million homes will be powered by Dogger Bank. This is based on 18TWh annual electricity production from Dogger Bank and average UK household energy consumption of 3,772kWh. The number of homes powered by our operational wind farms has been calculated using the average electricity production from each wind farm and average UK household energy production: 410,000 UK homes are powered by Dudgeon, 220,000 British homes are powered by Sheringham Shoal, and 36,000 homes are powered by Hywind.

Dogger Bank – the world’s largest offshore wind farm

Dogger Bank is an isolated sandbank within the central to southern North Sea, between 125 and 290km off the east coast of Yorkshire. Before the last Ice Age it was a land mass connecting the UK to mainland Europe. Today it extends over approximately 8660km² with water depths ranging between 18 and 63m.

Dogger Bank wind farm will be the world’s largest offshore wind farm – the total area covered by the wind farm (1674km²) is bigger than Greater London (1568km²). It is being developed in 3 phases.

- Dogger Bank A is around 131km from shore, with a development area of around 515km² and will have an installed generation capacity of up to 1.2GW when complete.
- Dogger Bank B is the largest of the projects with a development area of around 599km² and is also around 131km from shore with an installed generation capacity of up to 1.2GW when complete.
- Dogger Bank C, also with an installed generation capacity of up to 1.2GW, has a development area of around 560km², and is 196km form shore.

Dogger Bank A and B is a joint venture between Equinor (40%), SSE Renewables (40%), and Eni (20%). Dogger Bank C is a 50:50 joint venture between Equinor and SSE Renewables.

The whole Dogger Bank project represents a £9 billion investment in the UK between 2020 and 2026 and will provide enough power for 5 million UK homes, roughly equivalent to around 5% of the UK’s electricity demand.

The Dogger Bank wind farm is also revolutionising the industry as a whole. The project will use 13MW and 14MW versions of GE’s Haliade-X turbine. These are the world’s most powerful, with blades 107 metres long – twice the wingspan of the Angel of the North. Each turn of just one offshore turbine can power a UK household for two days. Over a year, each of these turbines can provide enough energy to power 16,000 British households and save the equivalent of 9,000 vehicles’ emissions.

Due to its distance from shore, Dogger Bank will also be the first in the UK to use High Voltage Direct Current (HVDC) technology to transport the power generated at Dogger Bank back to the National Grid.

You can find out more about the Dogger Bank offshore wind farm at https://doggerbank.com
Expanding offshore wind power off Norfolk

We are looking to double the capacity of our Sheringham Shoal and Dudgeon wind farms, just off the coast of Norfolk, by extending their areas and using newer, more efficient turbines. The proposed extension projects should double their combined output and provide power for around 1.5 million UK households.

You can read about the two extension projects at: https://www.equinor.com/en/where-we-are/united-kingdom/sheringham-dudgeon-extension.html

Dudgeon Offshore Wind Farm and the Dudgeon Extension is owned by Equinor, Masdar and China Resources.

Sheringham Shoal Offshore Wind Farm is owned by Equinor, Equitix and Green Investment Group. The Sheringham Shoal Extension is owned wholly by Equinor, with the partners retaining the right to re-enter the project during the construction phase.

Hywind – the world’s first floating wind farm

Winds are stronger and more consistent out further out at sea, but close to 80% of the world’s offshore wind resource potential is beyond the reach of fixed wind turbines, because it is above water that is deeper than 60 metres.

This fact is what led Equinor to install the world’s first floating turbine back in 2009, and to create the first commercial floating wind farm, Hywind Scotland, in 2017. It has proved to be very efficient – in fact, for the third consecutive year, Hywind Scotland has reached the highest average capacity factor for any wind farm in the UK. With an average capacity factor of 57.1% in the twelve month period to March 2020, the floating offshore wind farm set a new record in the UK. The capacity factor is the ratio of actual energy output over a given period of time, compared to the maximum possible output. The higher the capacity factor the better.

Hywind Scotland’s five turbines came online in 2017 and with 30 MW capacity they can generate enough electricity to power almost 36,000 Scottish homes.


Hywind is also at the forefront of another innovation in wind energy, thanks to its connection with Batwind, the world’s first battery for offshore wind. The Batwind energy storage system makes it possible to store energy produced from offshore wind farms in batteries – critical in securing grid stability as wind levels are not consistent. Batwind stores electricity when it is plentiful and demand is lower, and sends power to the grid when winds fall and demand rises.


Hywind Scotland and Batwind are both jointly owned by Equinor and Masdar.
The impact offshore wind has on dry land

Our ad **Can a wind turbine generate more than electricity?** is about the positive impact that Dogger Bank offshore wind farm will have on the economy of the North East.

Our Operations and Maintenance Base for Dogger Bank will be situated at the Port of Tyne. By 2026, this will generate 200 skilled offshore and onshore jobs, boosting the local economy and attracting suppliers and other businesses to the area for decades to come. Recruitment is expected to begin in 2022.


How does sustainable energy help sustain community projects in Norfolk?

Our ad **How does sustainable energy help sustain community projects in Norfolk?** is about the contribution we make to community life in Norfolk.

Our Sheringham Shoal and Dudgeon offshore wind farms have established community funds which have awarded over £1 million to projects in Norfolk. The funds were set up to provide grants to Norfolk community groups, including schools and NGOs, seeking financial assistance for projects or initiatives that meet key criteria and focus on renewable energy, marine environment and safety, sustainability, or education in these areas.
In 2020, the funds also provided grant funding to the Norfolk Community Foundation’s COVID-19 support initiatives in Norfolk. In 2021, Dudgeon donated £100,000 and Sheringham Shoal donated £20,000 to the Norfolk Community Foundation’s Every Child Online campaign – supporting remote education.

You can find out more about the community funds at [http://sheringhamshoal.co.uk/community/community-fund.php](http://sheringhamshoal.co.uk/community/community-fund.php)

And at [http://dudgeonoffshorewind.co.uk/community/community-fund](http://dudgeonoffshorewind.co.uk/community/community-fund)