

# BUCHAN OFFSHORE WIND

## Project Consultation

Buchan Offshore Wind is a new floating offshore wind project, with a key role in Scotland's economic future and the fight against climate change.

A ScotWind project located 75km off the coast of Fraserburgh, it will have up to 70 wind turbines generating around 1GW of clean, green renewable energy.

Buchan Offshore Wind could see more than £1.4bn invested in Scotland's manufacturing sector and supply chain, with potential for a further £800m in the rest of the UK. This has the potential to support over 2,800 jobs in Scotland at the peak of construction and 320 during operation.

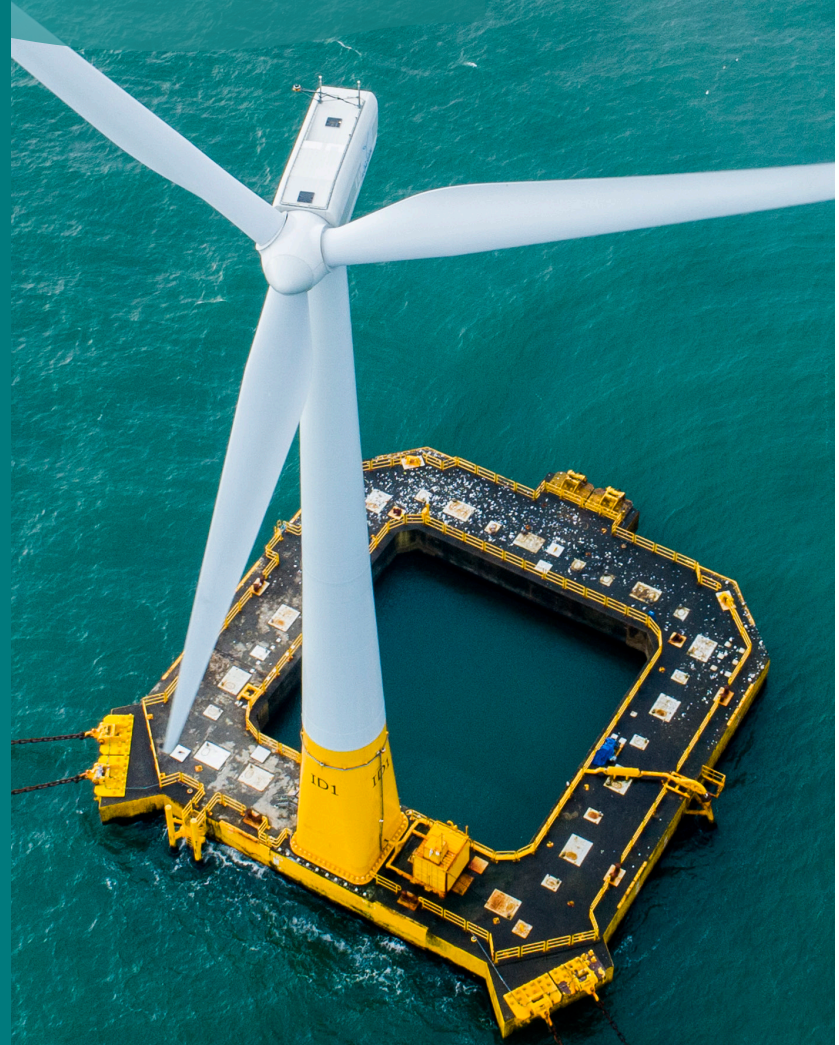
## We want to hear your views!

Subsea cables bringing energy from the turbines will come ashore in Aberdeenshire, and underground cables will then transport the energy to a new project substation in the Peterhead area. This new substation will be connected to the existing Scottish and Southern Electricity Networks (SSEN) transmission network.

To help us develop our plans we are asking local people and stakeholders for their views on our preferred landfall point, onshore cable route and inland substation location. Given the distance from shore there will be very little, if any, visibility of the turbines from the Scottish coastline.

**Our public consultation runs from Monday 20 November to Friday 15 December 2023.**

You can find more information about Buchan Offshore Wind, our project and our consultation in this leaflet and on our website [www.buchanoffshorewind.com](http://www.buchanoffshorewind.com)



## About Buchan Offshore Wind

A joint venture between BayWa r.e, Elicio and BW Ideol, Buchan Offshore Wind was awarded its site through the ScotWind leasing process launched by Crown Estate Scotland (CES) to facilitate the expansion of offshore wind in Scotland.

ScotWind was delivered in response to the Scottish Government's target of net-zero emissions of all greenhouse gases by 2045 and the aim to generate 50% of Scotland's overall energy consumption from renewable sources by 2030. Buchan Offshore Wind was awarded ScotWind NE8 Plan Option, with an option area of 330km<sup>2</sup>.

## What does the project involve?

Buchan Offshore Wind will put Scotland at the forefront of floating wind technology. Our aim is to develop a landmark project that has as little impact on the environment and community as possible.

The wind turbines will be fixed to floating concrete structures which will be moored and anchored to the seabed. Our preferred technology is BW Ideol's Damping Pool technology, which has already been successfully installed off the coasts of France and Japan.

**The serial production of foundations and turbine assembly will take place in Scotland. BW Ideol have prepared detailed plans for the proposed manufacture of concrete floating foundations at Ardersier. It is expected that more than 1000 staff will be employed locally in Scotland for the manufacturing of the floating foundations.**



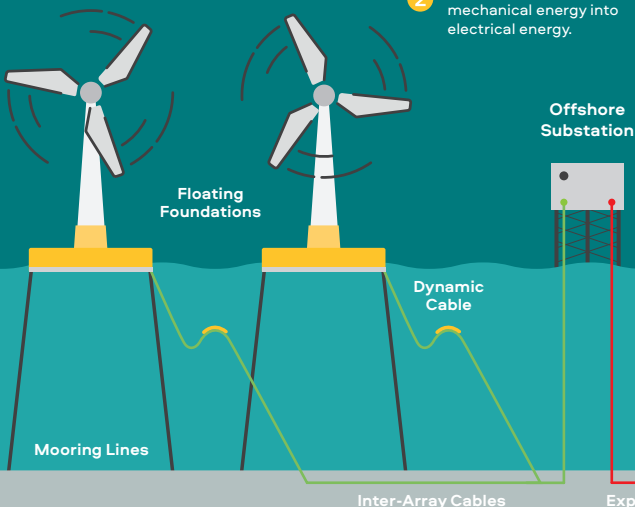
Offshore substations will collect energy generated by the turbines for transmission via subsea cables and an offshore intermediate reactive compensation (IRC) platform to a landfall location, on the Aberdeenshire coast. At landfall the subsea cables will enter a transition bay, and then onshore underground cables will transport the electricity to the project's substation, near Peterhead. Here it will be converted to 400kV (400,000 volts) for onward transmission via underground cables to join the national transmission network.

The exact point of connection will be determined following the conclusion of a study by National Grid ESO (Electricity System Operator). Their Holistic Network Design Follow-Up Exercise (HND-FUE) is looking at the best way to connect all the ScotWind projects, and other new power generation, to the network.

## How does floating wind energy work?

1 With the power of the wind the blades start to rotate which makes the generator turn.

2 The generator transforms mechanical energy into electrical energy.



3 The electricity is transmitted via array cables to the offshore "collector" substation which increases the electricity voltage for transmission to shore.

### Did you know?

- Scotland has a huge offshore wind pipeline of 38 GW.
- United Kingdom is the second world leader in offshore wind.

4 The electricity is transmitted through the export cables to the onshore substation where power quality and frequency are corrected.

5 The voltage of the electricity is increased again to match the National Grid voltage in the onshore substation and is then transmitted to homes.

## Our proposed offshore development

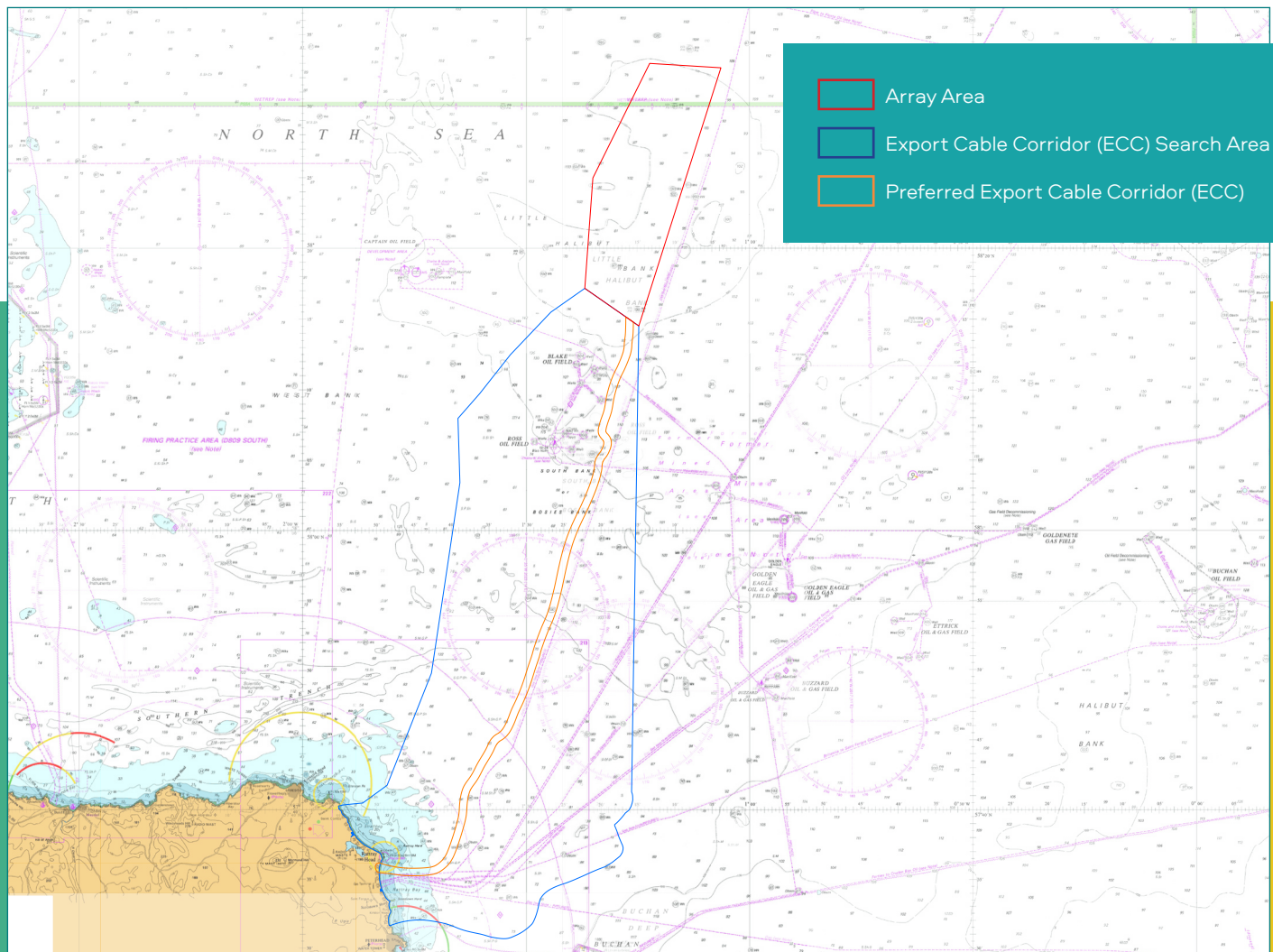
To help us decide where the floating wind turbines should go within the awarded area, and the best subsea cable route, we are carrying out detailed technical and environmental surveys. We are also conducting ongoing engagement with a range of stakeholders – including environmental organisations – to help inform a comprehensive approach to an Environmental Impact Assessment (EIA) report. That approach is outlined in the project’s Offshore Scoping Report, issued in September 2023 and accessible via our website, and the resulting EIA report will accompany the consent application.

We have also been working closely with fisheries groups and representatives on how we can minimise any impact on the fishing industry from the installation and operation of the turbines, subsea cables and the IRC platform, which will be about halfway along the cable route.

The IRC platform helps balance the power being transmitted, so it arrives onshore safely and ready for onward transmission.

The offshore cables will be buried in the sea bed wherever possible, both to protect them and to minimise the possibility of interference with other sea users. Where burial is not possible and the cables need to be laid on the sea bed – such as when crossing other pipelines and cables – rock armour or similar protection will be used.

### Export Cable Corridor Search Area and Preferred Export Cable Corridor



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We believe our preferred routes and sites are the ones that best balance our technical requirements with the impact on the environment and the people who live, work and enjoy spending their time in the area.

But we need your views to help us develop our plans, and to let us know if there is anything else you would like us to take into account.

You can view our plans, ask questions of the project team and give us your feedback at one of our public exhibitions:

**Monday 20 November:**

Peterhead Football Club – 2pm-7pm

**Tuesday 21 November:**

Dalrymple Hall, Fraserburgh – 2pm - 7pm

**Wednesday 22 November:**

St Combs Community Hall – 2pm – 7pm

You can find more information and an online feedback form at our website [www.buchanoffshorewind.com](http://www.buchanoffshorewind.com)

You can contact us using the following:

**Phone: 0800 0129 889**

**Email: [feedback@buchanconsultation.com](mailto:feedback@buchanconsultation.com)**

**Freepost: FREEPOST BUCHAN OFFSHORE WIND**



## **Working with the community**

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Buchan Offshore Wind is already working with the supply chain in Scotland, but we're also active in local and regional initiatives such as the Best of Buchan Awards, Peterhead Scottish Week and the University of Highlands and Islands STEM engagement programme.

We are committed to working in partnership with the local community throughout the project to ensure it is delivered in the best way and benefits local people. Please let us know if there are projects or initiatives you would like us to know about.

