Broadshore Hub

Broadshore OFFSHORE WIND | Sinclair OFFSHORE WIND | Scaraben OFFSHORE WIND

Welcome to the Broadshore Hub Public Consultation Event

Thank you for attending today's public consultation event.

The Broadshore, Sinclair and Scaraben Offshore Wind Farms (collectively referred to as the Broadshore Hub) will contribute to achieving Scotland's net zero targets, generate cleaner, home-grown electricity and provide energy security for future generations.

This consultation event is an opportunity to meet the development team, find out more about the projects and ask any questions you may have.

As the Broadshore Hub is at an early stage of development, this is an ideal opportunity for local communities and stakeholders to provide feedback which could help shape and inform the projects going forward.

We look forward to speaking with you today.

For more information, please visit:

www.broadshorewind.co.uk
www.sinclairwind.co.uk
www.scarabenwind.co.uk

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About Us

The projects are being developed by:

- Broadshore Offshore Wind Farm Limited
- Sinclair Offshore Wind Farm Limited
- Scaraben Offshore Wind Farm Limited

These projects form part of the BlueFloat Energy | Nadara Partnership's portfolio of projects. The Partnership aims to contribute to a world leading floating offshore wind industry in the UK, combining innovative technology with a plan to attract and grow a skilled Scottish workforce, stimulate a thriving local supply chain and deliver the associated environmental, economic and energy security benefits of the projects.

BlueFloat Energy's knowledge and experience in developing floating offshore wind projects combined with Nadara's track record in global project development and community engagement ensure the Partnership is well placed to deliver world class floating offshore projects.

The Partnership is based in Edinburgh, where we have brought together an experienced team of specialists to deliver the projects.

BlueFloat ENERGY | nadara

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Project Overview

The Broadshore Hub comprises three offshore wind farms (Broadshore, Sinclair and Scaraben), located 47 km north of Fraserburgh. The Broadshore Hub has the capacity to generate up to 1.1 GW(1) of renewable electricity. The power from the offshore wind farms will come ashore via underground cabling and connect to the National Electricity Transmission System at the Netherton Hub, west of Peterhead.

The Sinclair and Scaraben projects will also deliver important innovations to help stimulate Scotland's offshore wind sector.

Key facts

	Broadshore	Sinclair	Scaraben
Location from Fraserburgh	47 km north	58 km north	58 km north
Capacity(1)	900 MW	99.5 MW	99.5 MW
No. of turbines(2)	32 to 60	3 to 6	3 to 6
Development area	134 km^2	25 km^2	29 km^2
Water depth	55 to 100 m	85 to 110 m	85 to 110 m
Grid connection location	Netherton Hub (west of Peterhead)		
Potential to power(3)	Over 1 million homes with renewable electricity		
Potential to displace(3)	Over 1.6 million tonnes of CO_2 from fossil fuel based electricity generation		

(1) Additional capacity may be developed for overplanting purposes
(2) Depending on turbine capacity and excludes overplanting
(3) See project websites for further details

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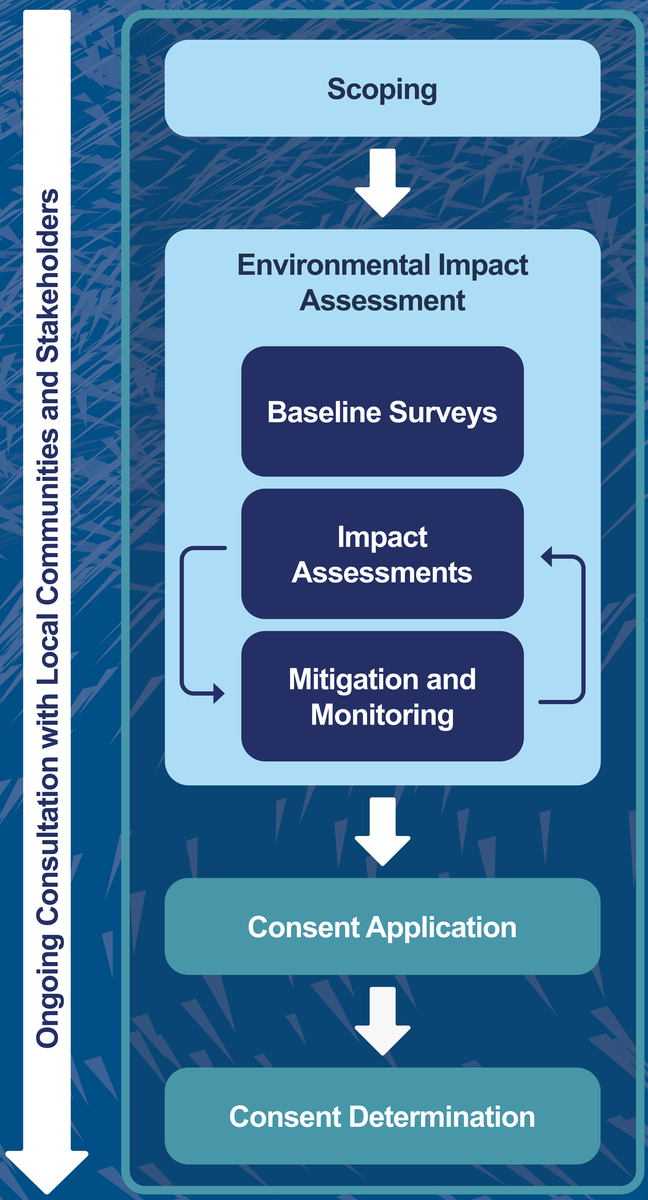
EIA Process

An Environmental Impact Assessment (EIA) is required to support the consent applications. The EIA is undertaken by independent experts and follows a well-established process. It identifies a project's potential environmental impact and any mitigation measures and monitoring required to reduce the predicted effects of a project during its construction, operation & maintenance and decommissioning phases.

A 'design envelope approach' will be adopted for the EIAs, where a range of design options and parameters will be considered and the 'worst-case' will be assessed. This provides the necessary design flexibility at this early stage of project development.



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Survey Campaigns

Baseline surveys are required to understand the existing environmental and physical conditions to ensure the projects can be designed and developed safely, efficiently and with minimal environmental impacts.

Habitat Surveys

Habitat surveys within the Onshore Transmission Development Areas (OnTDAs) Area of Search were carried out in 2023. These surveys identified existing habitats and relevant species within the OnTDAs and also identified specific surveys which will be required to inform the EIA. Further habitat surveys will take place in 2025.

Overwintering Bird Surveys

Overwintering bird surveys for the OnTDAs Area of Search were carried out from Q4 2023 to early Q1 2024. The purpose of these surveys were to identify the presence of migratory bird species during the winter months. A further suite of these surveys are being carried out between Q4 2024 and Q1 2025 to ensure full coverage of the area, in line with NatureScot's guidelines.

Breeding Bird Surveys

Breeding bird surveys for the OnTDAs Area of Search will be carried out from Q1 2025 to Q2 2025. These surveys will identify areas within the OnTDAs which support breeding bird populations, and which species are present.

Background Noise Surveys

Baseline noise levels within the OnTDA will be established by measuring the day-to-day variation in noise levels. Surveys will take place in 2025 and will be carried out at key locations within the OnTDA.

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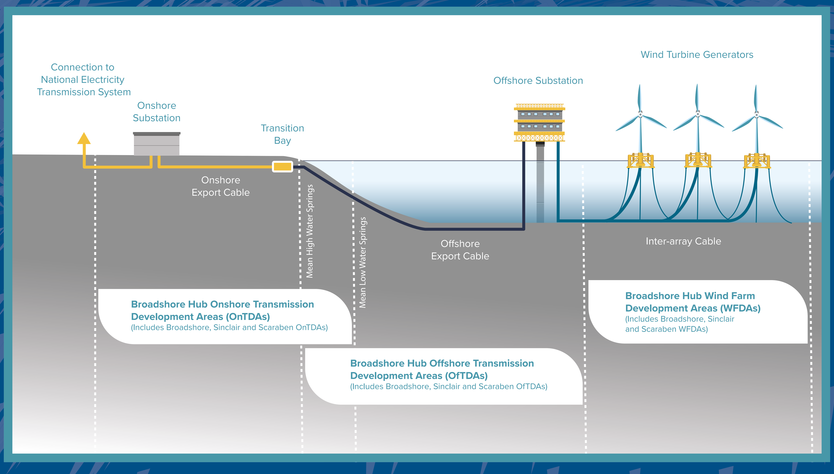
Environmental Topics

The following topics will be assessed by independent experts as part of the projects' Environmental Impact Assessment:

- Landscape and visual
- Noise and vibration
- Traffic and transport
- Air quality
- Onshore ecology and ornithology
- Socioeconomics, tourism and recreation
- Climate change
- Cultural heritage
- Geology, hydrology and flood risk
- Land use
- Major accidents and disasters
- Human health

In addition, an assessment of the cumulative impact of the Broadshore Hub with other known projects will also be undertaken.



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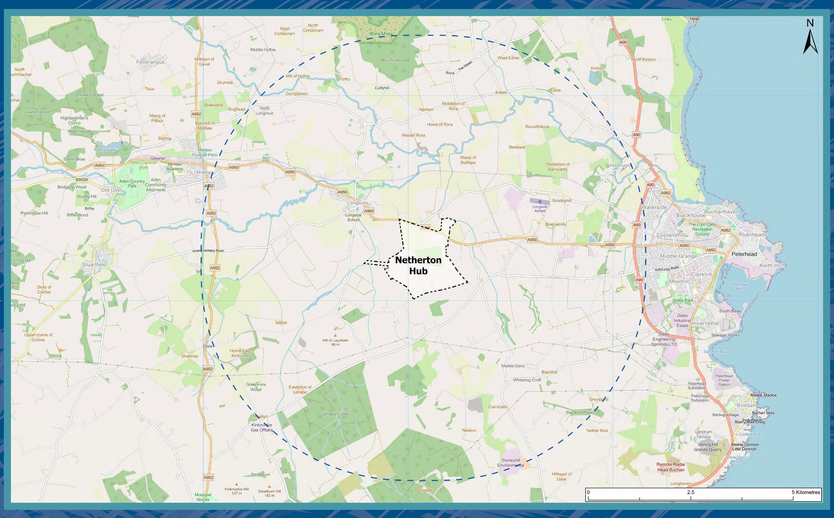
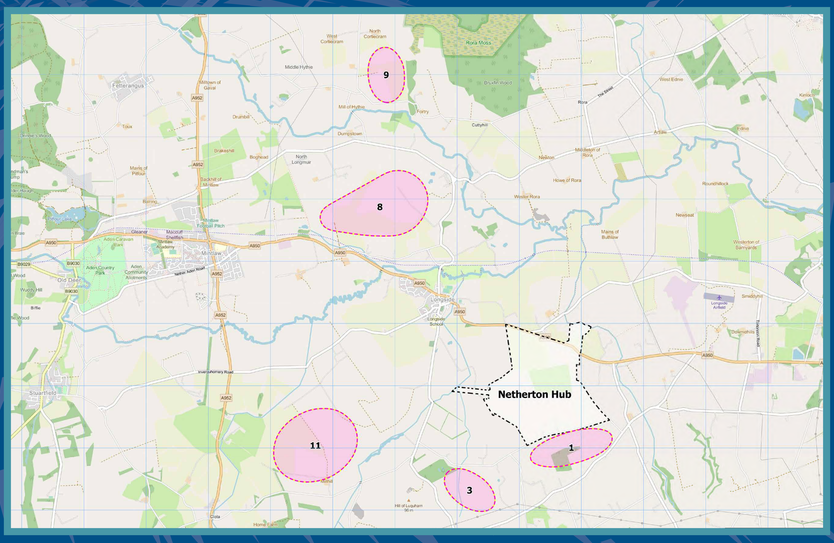
Onshore Substations Site Selection

The site selection process for the Broadshore Hub onshore substations is focused on an Area of Search (AoS) 5 km from the Netherton Hub.

A shortlist of 5 zones within which the onshore substations may be located has been identified through technical and environmental considerations, including potential landscape and visual impacts.



Broadshore Hub Onshore Substations AoS - 5 km



Broadshore Hub Onshore Substation Zones Under Consideration

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Broadshore Hub Onshore Substations

The Broadshore Hub will require two onshore substations. One for the Broadshore project and one for the Sinclair and Scaraben projects combined.

The renewable energy generated by the offshore wind farms will be supplied to the projects' onshore substations via underground cables.

The onshore substations are required to safely and reliably convert the renewable electricity to the correct voltage before being fed into the National Electricity Transmission System at the Netherton Hub. From there, the renewable electricity is transmitted to areas of demand and ultimately to our homes and businesses.

As the projects are at an early stage, the design of the onshore substations are not yet known. Air insulated switchgear (AIS), generally located outdoors, or gas insulated switchgear (GIS), generally located indoors, or a combination of the two could be used. The choice of technology will be informed by environmental, technical and commercial considerations.

The size of the onshore substations will be determined through further design, but at this early stage the anticipated boundary and height of the onshore substations are as follows:

Broadshore

- 225 m x 260 m, with equipment 21 m high

Sinclair and Scaraben

- 145 m x 200 m, with equipment 21 m high

Further details on the technology proposed and the onshore substations dimensions will be provided at future consultation events as the design progresses.

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Next Steps

The projects are at a very early stage of development and a number of factors can influence our development programme. Our indicative programme for the OnTDA is shown below.

2023 to 2025

Onshore surveys to inform Environmental Impact Assessment (EIA)

Early 2025

Finalise onshore substations site selection

Mid 2025

Scoping Requests submitted for Onshore Transmission Development Areas (OnTDAs)

Mid to End 2026

Consent applications submitted for OnTDAs

Early to Mid 2027

Consent awarded for OnTDAs

Late 2020s to Early 2030s

Construction commences

Early 2030s to Mid 2030s

Commercial operation

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Feedback

We are committed to engaging with local communities and stakeholders throughout the development of the projects.

This engagement will provide an opportunity for local communities and stakeholders to learn more about the projects and provide feedback which could help shape and inform the projects going forward.

Local knowledge shared at our events can help optimise our site selection, help optimise the project design, reduce potential impacts, and identify potential mitigation opportunities. This will help to successfully deliver the projects in a cost effective and environmentally acceptable way.

Thank you for taking the time to visit today and for providing your feedback.

If you have any further queries on the projects, please contact the development team at **info@broadshorewind.co.uk**

Bob Taylor via Aberdeen Renewable Energy Group

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