Scaraben OFFSHORE WIND

Sinclair OFFSHORE WIND

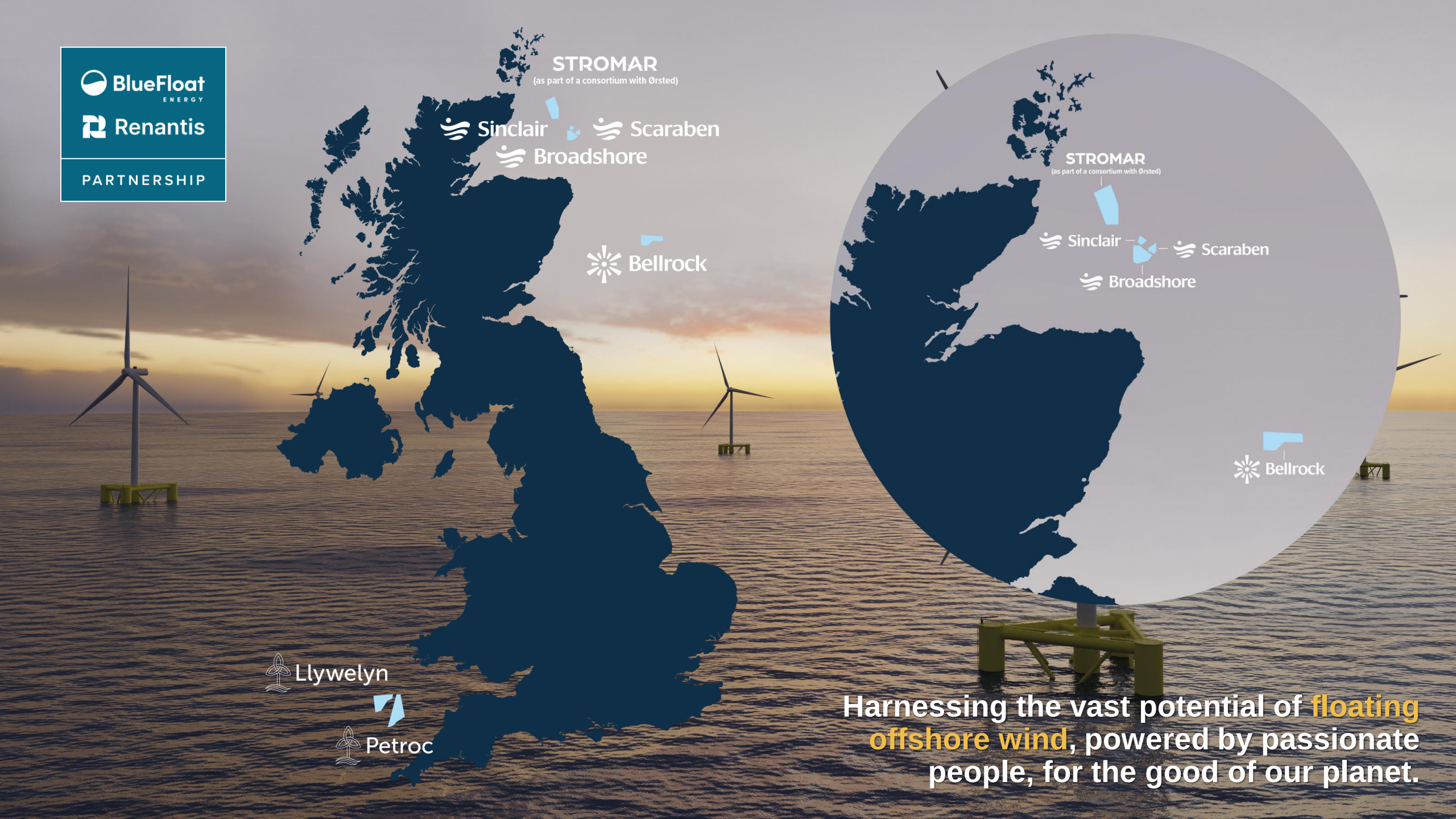
BlueFloat ENERGY

Renantis

PARTNERSHIP

SINCLAIR & SCARABEN

PIONEERING INNOVATIONS IN FLOATING WIND ENERGY


BlueFloat ENERGY
Renantis
PARTNERSHIP
STROMAR
(as part of a consortium with Ørsted)
Sinclair
Scaraben
Broadshore
Bellrock
Llywelyn
Petroc
STROMAR
(as part of a consortium with Ørsted)
Sinclair
Scaraben
Broadshore
Bellrock
Harnessing the vast potential of floating offshore wind, powered by passionate people, for the good of our planet.

Bellrock
OFFSHORE WIND

BlueFloat ENERGY | Renantis
PARTNERSHIP

Project Information

Capacity	1;200 MW
Nb WTG	TBC
Foundation Type	Floating Steel, Concrete or Hybrid Technology Neutral
Offtake	HVDC - HND 1 co-located offshore connection
Surface Area	280 km^2
Distance to Shore	120 km
Water Depth	70-100 m
Average Wind Speed	10.5 m/s

Broadshore
OFFSHORE WIND

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Project Information

Capacity	900 MW
Nb WTG	TBC
Foundation Type	Floating Steel, Concrete or Hybrid Technology Neutral
Offtake	HVAC - subject to HND Follow Up Exercise
Surface Area	134 km^2
Distance to Shore	47 km
Water Depth	80-100 m
Average Wind Speed	10.7 m/s

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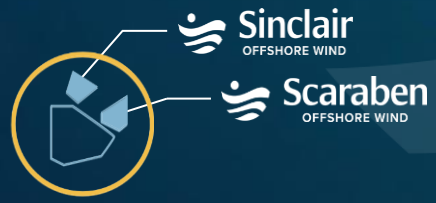
Innovations

Located north of Fraserburgh and adjacent to the 900MW Broadshore project, Sinclair & Scaraben will seek to trial innovative technologies and new construction methodologies with a view to maximising opportunities for the Scottish supply chain.



Project Information

Capacity	99.45 MW
Nb WTG	TBC
Foundation Type	TBC
Offtake	CfD, cPPA or Hydrogen HVAC - subject to HND Follow Up Exercise INTOG
Surface Area	25-33 km^2
Distance to Shore	58-61 km
Water Depth	90-110 m
Average Wind Speed	10.7 m/s

Indicative Project Timeline

Subject to HND FUE INTOG & Alternative Routes to Market

Project Status and Ongoing Activities

Scaraben OFFSHORE WIND

Sinclair OFFSHORE WIND

Deployment Floating LiDAR for Broadshore, Sinclair and Scaraben

Project Award

Completion phase 1 geophysical, geotechnical and environment survey for the Wind Farm Development Area

Submission Scoping Report for the Wind Farm Development Area

Consultation Events (05th to 09th February 2024)

Receipt Scoping Opinion

EIA Design Envelope Definition

2023

2024

2025

Identification of innovations, engagement with technology developers and definition of Sinclair and Scaraben innovation strategy

Selection S&S Innovations Consultant

Assessment innovations, shortlisting and definition of nature of the support to innovation developers

TECHNICAL INNOVATIONS

Mooring and IA Cable Connection-Disconnection Device

Mooring and power cable connection-disconnection device enabling the rapid hook-up and disconnection of the floating wind turbine. Key benefits of this technology:

- Quick release of floating WTG, facilitating major corrective maintenance operations.
- Minimization of personnel onboard, improving operational safety.
- Minimization of yield and revenue losses through power continuity.

Low Carbon Concrete

'Green concrete' or lowered embedded carbon achieved by replacing a % of Portland cement with an additive such as fly ash Ground Granulated Blast Furnace Slag (GGBS) or calcined clay.

Recent research has demonstrated the reliability and durability of low carbon concrete. However, its commercial readiness and adoption in the offshore wind sector have yet to be established.

TECHNICAL INNOVATIONS

Digital Twin for Construction and Operations Phases

A technology intended to be deployed for preparing and monitoring onshore port operations during construction phase.

The digital twinning approach will cover the construction, logistics and assembly processes of the floating wind platforms to optimise efficiency and safety.

The digital twin will equally be utilised to support operation and maintenance (O&M) activities of the wind farm, focusing on preventive maintenance and potentially prevent or predict the need for major repairs and/or maintenance are required.

Community Benefit Model

Innovative Community Benefit/Ownership Model

In an exclusive partnership with Energy4All, we are exploring a new type of community shared ownership model.

For this pilot scheme, Sinclair and Scaraben will leverage on Renantis‘ eighteen years of experience in this field, having pioneered community shared ownership in Scotland in 2006 and have since implemented seven ongoing schemes throughout Scotland.

While still in concept stage, we aim for an inclusive approach that benefits all communities around our projects, targeting local priorities and locality plans. We're aware of the national significance of community benefits from wind farms and will work within that context.

Through this initiative, we want to engage more people in the fight against climate change by offering them something tangible, beneficial to them and beneficial to their community.

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www.broadshorewind.co.uk

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