





> Scotland is a world-leader in offshore wind demonstration projects, such as the Beatrice Demonstrator, the European **Offshore Wind Demonstration** Centre and the Hywind, Dounreay Tri and Kincardine floating wind projects.

There is more than 4GW of offshore wind energy consented for development around Scotland's coastline, enough to power 3 million homes

> Scotland's economy must capitalise on the substantial opportunity for its innovative businesses to share in the supply chain opportunities presented by these developments, and deliver further growth from the crosssector transfer of technologies and experience.

ORE Catapult



Inovo

121 George Street, G1 1RD, UK T: +44 (0)333 004 1400 F: +44 (0)333 004 1399

ore.catapult.org.uk 9 @ORECatapult info@ore.catapult.org.uk

Contact us

If you would like to contact us directly, please send us an email at info@ore.catapult.org.uk

T: +44 (0)1670 359 555

We work with Innovate UK







Fife Renewables Innovation Centre (FRIC)







SCOTLAND'S OFFSHORE POTENTIAL:

Seizing the economic and employment opportunities from innovation in our offshore wind industry







SCOTLAND'S OFFSHORE WIND INDUSTRY

With more than 4GW of offshore wind energy consented around Scotland's coast line, there is huge potential for Scotland's small and medium sized companies to capitalise on the opportunities presented by development on this scale. The map below details the consented projects, and some of Scotland's supply chain success stories.

Consented projects...

 Beatrice Offshore Wind Farm **Developers:** Joint venture between SSE (40%), Copenhagen Infrastructure Partners (35%) and Red Rock Power Limited (25%) Size: 588MW scheme

2 European Offshore Wind **Deployment Centre**

Scotland's largest offshore wind test and demonstration facility **Developers:** Vattenfall-owned Aberdeen Offshore Wind Farm Limited Size: 92.4MW scheme

3 Moray Offshore Wind farm (East) Ltd Phase 1 and 2 **Developers:** EDPR Size: Phase 1: 504MW Phase 2: 496MW

4 Hywind

World's first floating windfarm **Developers:** Statoil Size: 30MW

5 Dounreay Tri World's first floating wind project **Developers:** Hexicon and Atkins Size: 10MW

6 Kincardine Offshore Windfarm Project

Floating wind demonstration site **Developers:** Kincardine Offshore Wind Ltd (KOWL) - Pilot Offshore Renewables Ltd and Atkins Ltd Size: 49.6MW

Robin Rigg offshore wind farm **Owner/operators:** Eon Size: 180MW

8 Neart Na Gaoithe

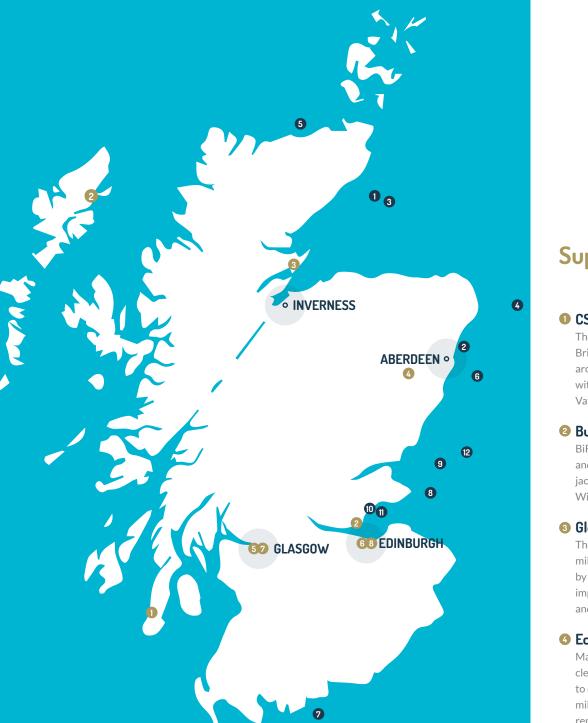
Owner/operators: Mainstream **Renewable Power** Size: 450MW

9 Inch Cape

Developers: Inch Cape Offshore Ltd - 100% owned by Red Rock Power Ltd Size: 784MW

10 Levenmouth

- World's largest, open access offshore wind turbine dedicated to research **Operators:** Offshore Renewable Energy Catapult Size: 7MW
- ForthWind Offshore Wind **Demonstration project Developers:** 2-B Energy Size: 18MW
- **12** Seagreen Alpha and Bravo **Developers:** SSE Renewables and Fluor Size: Alpha: 525MW Bravo: 525MW



CS Wind UK

The only turbine tower factory of its kind in Britain, CS Wind UK's Argyll plant employs around 100 people and has agreements with Siemens, EDF Energy Renewables, and Vattenfall.

Wind Farm.

The Nigg Energy Park has undergone a £45 million redevelopment since being acquired by Global Energy Group in 2011, and is an important assembly base for Siemens, MeyGen and Hexicon.

Cosse Subsea Systems

Manufacturers of the world's largest boulderclearing tool, Ecosse Subsea Systems is expecting to double its revenue in 2016-17 to around £25 million after transitioning from oil and gas to renewables.

Supply chain successes...

2 Burntisland Fabrications

BiFab operates facilities in Stornoway and Fife, and has a contract to supply 28 enormous steel jacket foundations for the Beatrice Offshore

3 Global Energy Group

6 Wood Group

Wood Group's clean energy business has worked on 160GW of projects across six continents, including the first consented offshore wind farm in the USA and China's first western-designed wind farm.

© Limpet Technology Ltd

With revenues approaching seven figures and a worldwide distributor network, family-owned Limpet Technology manufacture height safety systems that help offshore technicians transfer and climb with ease.

Wideblue Ltd

Glasgow-based Wideblue's world-first system of lasers and sensors detects structural deformation from the inside - it will undergo tests on the Catapult's research blade, before real-world trials on the Levenmouth turbine.

O ACT Blade

With testing and validation help from the Catapult, Edinburgh's ACT Blade are at the forefront of blade technology: developing the world's first textile blade.