



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

➤ 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.

➤ 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 cross-sector transfer of technologies and experience.

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We work with
Innovate UK

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...

- 1 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
- 7 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
- 11 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



Supply chain successes...

- 1 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.
- 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 Wind Farm.
- 3 Global Energy Group**
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.
- 4 Ecosse Subsea Systems**
Manufacturers of the world's largest boulder-clearing 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.
- 5 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.
- 6 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.
- 7 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.
- 8 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.