



What are the benefits of offshore wind?

Offshore wind comprises a 'farm' of turbines located at varying distances from the coast. The turbine technology is very similar to that used onshore, albeit designed for the harsher marine environment. Offshore turbines need foundations to connect them with the seabed and associated cabling to transmit electrical power to shore. An offshore substation transmits the energy onwards to the electrical grid. Wind turbines tend to be far out at sea, meaning they are much less intrusive to communities on land, allowing for larger farms to be created per square mile. There is a much higher wind speed out at sea allowing for more energy to be generated at a time.

UK expertise in offshore wind

The UK is a world leader in fixed bottom offshore wind deployment, with experience and expertise to support overseas markets, not only to develop their projects, but also to industrialise their supply chains. The UK has plans to grow its offshore wind capacity from 10GW in 2020 to 40GW by 2030 including developing sites for 1GW floating offshore wind. UK companies have particular expertise in project development and installation, equipment design and manufacturing, and specialist offshore legal and insurance products and services.

UK companies with offshore wind capability for the Middle East

Wood

Wood is a global leader in engineering and consultancy across energy and the built environment. Wood has been awarded a pre-FEED (front-end engineering design) contract by Simply Blue Energy for a proposed floating offshore wind farm located off the west coast of Ireland. The Western Star Floating Offshore Wind project aims to harness the vast wind power of the Atlantic Ocean to produce clean, sustainable energy for Ireland and beyond.

Ryse Energy

Ryse Energy is an innovative, impact-driven leader in renewable off-grid energy systems with over 4,000 installations across all seven continents. A UK manufacturer of the most advanced and diverse wind turbines in the sector, Ryse Energy has opened its international headquarters in Masdar City, Abu Dhabi, to expand into new markets and capture the multi-billion dollar market opportunities represented in the off-grid energy space across the globe.

[Learn more about UK renewable energy solutions for your business](#)

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