



Generating energy from offshore wind >>>



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 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. There is a much higher wind speed out at sea, allowing more energy to be generated at a time.

UK expertise in offshore wind

The UK currently has the largest amount of installed offshore wind in the world (9.8GW, a third of global capacity), with plans to increase to 14GW capacity by 2023. By 2030, offshore wind will produce more than enough electricity to power every home in the UK, based on current electricity usage. UK expertise in wind energy is now being deployed overseas, including in the Middle East.

UK organisations with offshore wind capability for the Middle East

The University of Hull

The University of Hull, the UK's leading technology innovation and research centre for wind energy, will be working on a feasibility study in collaboration with the Kuwait Institute for Scientific Research, KISR, to determine the potential of near-term offshore wind farms deployment in Kuwait to support Kuwait's Vision 2035. KISR has already developed Shagaya, Kuwait's first-ever onshore wind farm, in 2017, and this study will explore how to scale up capacity by extending offshore in Kuwait. The study will be funded by the UK Government's Gulf Strategy Fund.

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. Wood also has several renewable energy projects in the Middle East.

Learn more about UK renewable energy solutions for your business.

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