



Narec is the UK's national research centre for accelerating grid integration of renewable energy systems and catalysing the development and deployment of offshore wind, wave and tidal energy generation technologies.

Offshore renewable projects (wind, wave and tidal) present a significant potential market for sections of the oil and gas industry supply chain, most evident at this time in the offshore wind industry where 40% of a wind turbine is subsea.

Going further and deeper offshore brings greater challenges due to longer cables, deeper structures and longer transit times, while those projects located near to shore can be in areas of high current, persistent wind and shallow water with breaking waves.

Narec offers companies the chance to test their equipment for instability, operability, safety and reliability for harsh marine environments in a controlled onshore location with a saltwater environment.

Through our joint industry R&D programmes, Narec is working with both the subsea and renewable industries to help provide solutions to the challenges faced offshore.

Companies involved in cables and trenching, mid and deep water structures and foundations should all have a relevant fit within the offshore renewables sector supply chain.

Our projects aim to bring together the expertise which has evolved in the more mature offshore operations with the emerging needs of the offshore renewables industry.

JOINT INDUSTRY PROGRAMMES

- Cable protection systems
- Fatigue conditions – life of risers
- Subsea power cabling risk offshore
- Optimising grouting performance in offshore turbine structures
- Foundations for wind turbines
- Moorings and anchoring for wave and tidal devices
- Offshore wind installation
- LIDAR Devices



Aquamarine Power Oyster®



Tekmar Energy: Cable Protection System (TEKLINK®)

Advancing Renewable Energy

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