



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.

Narec's open access dry dock testing facilities include a wave test facility (with waveflume), a simulated seabed and a still water tank which can be filled to a depth of 8.2m, providing a flexible and controlled onshore saltwater location.

Narec works with world leading subsea companies for subsea testing, demonstration and factory acceptance trials to de-risk and prove reliability of new devices. Typical projects include ROV and Sonar device testing, subsea connection flow trials, high pressure gas testing and subsea cable laying trials.

Facility	1. Wave Test Facility	2. Simulated Seabed	3. Still Water Tank
	76m x 19m – Depth 7m Wave Flume: 50m x 5m	85m x 15m – Depth 3.5m	75m x 26m – Depth 8.2m Available - April 2012
Testing Capability	Christmas Trees, ROVs, Tether Management Systems, Inspection and Robots, Sonar Devices, Pipe Integrity Testing, Subsea Cable Systems, Bend Restrictors and Stiffeners, Pile Monitoring, Flood Defence Systems, Marine Renewable Wave Device Testing and Trenching Equipment.		



SITE FEATURES

- Simulated seabed
- Indoor and outdoor assembly with crane and engineering support
- Exclusive and secure on-site office
- Operations support team and workshop facilities
- Mobile tower lighting and flat bottomed work boat

RECENT PROJECTS

- Tekmar Energy – factory acceptance trials of TEKLINK® system. TEKLINK® Cable Protection System improves the resilience and longevity of underwater cable connections as well as reducing offshore wind turbine installation costs.
- Moffat2000 – wet tests performed in a flooded dock environment to determine the actual flow rate characteristic for the Moffat2000™ subsea Stab Connector. Moffat2000 design and manufacture subsea pipeline products and skid mounted assemblies for the oil and gas industry.
- SMD – scale model prototype testing of RT-1 for CTC Marine and submerged testing of their first ever Fallpipe ROV for Belgian dredging company Jan de Nul. RT-1 is the world's largest, most powerful subsea rock trenching vehicle for the burial of pipelines.

Advancing Renewable Energy

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