

charting 10 years of achievement





Established in 2003, there have been more gridconnected marine energy converters deployed at the European Marine Energy Centre (EMEC) than at any other single site in the world. Now with more than 10 years of real-sea experience, EMEC is still the world's only accredited marine energy laboratory.

In the last decade EMEC has:

- expanded its full-scale testing infrastructure
- created two scale test sites
- established baseline environmental monitoring programmes
- participated in over 30 industry focused research projects
- played a key role in streamlining the national consenting process
- coordinated the development of 12 industry guidelines
- contributed to numerous industry advisory groups
- exported a range of global research and consultancy services
- forged international alliances based on unrivalled experience
- provided a shop window for marine energy, hosting 2000+ visitors from around the world

in Orkney: the home of marine renewable energy.





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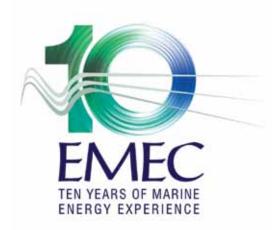
Charting achievement

Billia Croo Wave Test Site

- Pelamis Wave Power tested their 'P1' device on site, becoming the world's first floating wave device to generate electricity to the national grid
- 2009 **Aquamarine Power** launched their nearshore 'Oyster 1' device, which was the world's largest working hydro-electric wave energy device
- 2010 **E.ON** deployed the first Pelamis 'P2': second generation Pelamis device
- Aquamarine Power, ScottishPower Renewables, and Wello Oy began testing their devices on site Seatricity began installing their wave energy device Vattenfall secured a berth to test a next generation Pelamis device in 2014

Fall of Warness Tidal Test Site

- 2006 OpenHydro began the installation of their open-centred turbine, the first tidal turbine to be grid connected in Scotland and the first to successfully generate to the grid in the UK
- 2010 Tidal Generation Ltd successfully installed and connected their 500kW tidal turbine, DeepGen
- 2011 **Atlantis Resources Corporation, ANDRITZ Hydro** Hammerfest and Scotrenewables Tidal Power Ltd deployed tidal turbines on site Voith Hydro installed the monopile for their tidal turbine
- 2012 Kawasaki Heavy Industries and Bluewater Energy Services are working on tidal turbines to deploy at EMEC in 2013/14 TGL deployed their second generation 1MW turbine as part of Project ReDAPT





































AQUAMARINE POWER

Tidal Generation



Scotrenewable:

ATLANTIS

























2003/4 2006/7 2008/9 2009/10 2010/11 2011/12 2013 onwards