

charting 10 years of achievement



Established in 2003, there have been more grid-connected 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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Billia Croo Wave Test Site

- 2004** **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
- 2012** **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



VATTENFALL 

bluewater

 Kawasaki

VOITH

Wello
DIRECT CONVERSION

Seatricity

ANDRITZ
Hydro
Hammerfest

Scotrenewables
Tidal Power Ltd

ATLANTIS
RESOURCES CORPORATION


Tidal Generation

 AQUAMARINE
POWER
GREEN ENERGY OUT OF THE BLUE

openhydro
tidal technology

pelamis
wave power

SCOTTISHPOWER
RENEWABLES
e-on



2003/4

2006/7

2008/9

2009/10

2010/11

2011/12

2013 onwards