



# WestWave

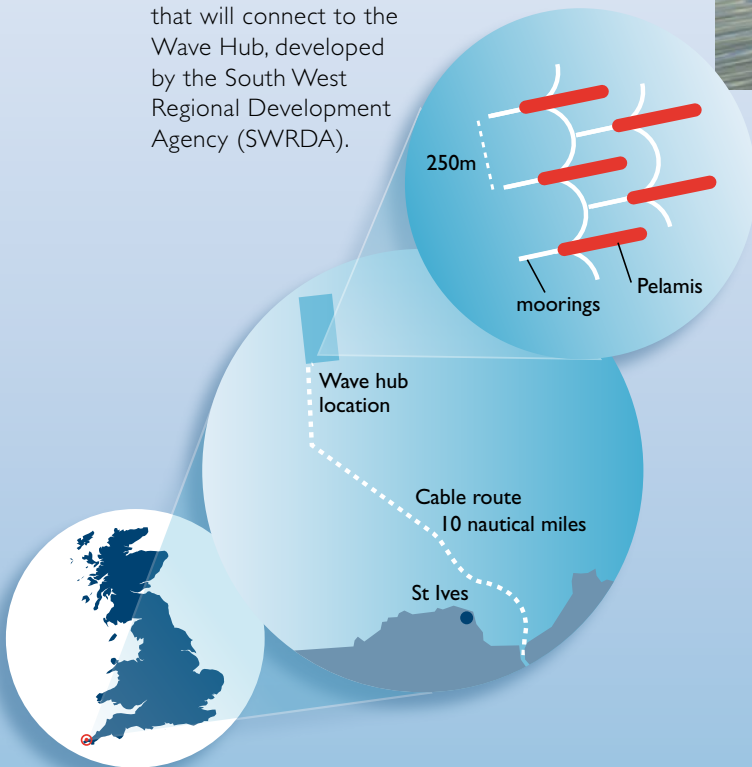
...part of the world's 1<sup>st</sup> large scale wave farm

**WestWave** is a proposed wave energy project 10 nautical miles off St. Ives on the north Cornwall coast. The wave farm is being developed by a partnership between Ocean Prospect (a subsidiary of the independent wind-power developer, Wind Prospect) and E.ON, the world's largest investor owned power and gas company. WestWave will consist of up to 5MW of Pelamis wave energy converters, manufactured by Pelamis Wave Power.

WestWave is one of 4 projects that will connect to the Wave Hub, developed by the South West Regional Development Agency (SWRDA).



Artists impression of a large scale Pelamis wave farm



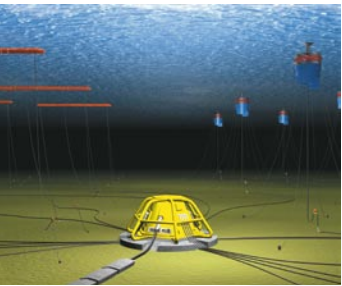
- The development of the WestWave project is an equal partnership between Ocean Prospect and E.ON
- WestWave will utilise Pelamis wave energy converters
- WestWave is expected to become operational in 2009

It is estimated that wave energy could meet up to **15%** of current UK electricity demand

## Wave Hub

Wave Hub is effectively an underwater 'socket' allowing WestWave and 3 similar wave energy projects to connect to the onshore electricity grid via a sub-sea cable.

Wave Hub was given planning permission in September 2007 by The Department for Business Enterprise & Regulatory Reform (BERR).



Artist's impression of the Wave Hub 'socket' on the seabed



Pelamis at sea

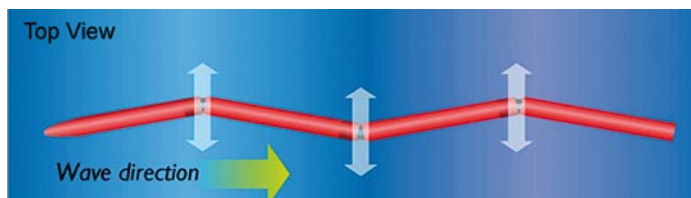
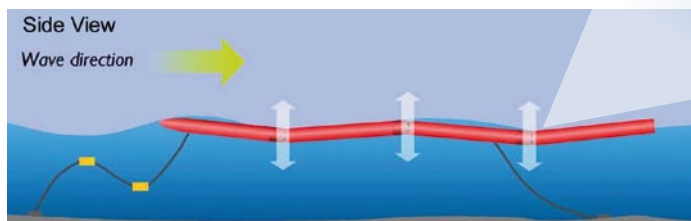
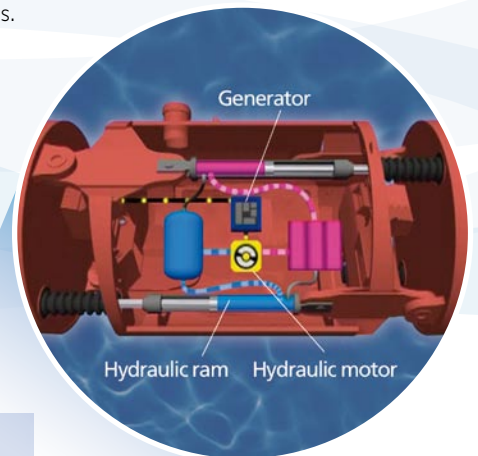
## How does the Pelamis work?

The Pelamis is a wave energy converter consisting of several long cylindrical sections linked by hinged joints. As the waves move the cylinders up and down, the joints operate hydraulic rams which then drive electrical generators. Each Pelamis will be up to 180 metres long, 3.5 metres in diameter and weigh 750 tonnes.

## The power of the waves

It is estimated that wave energy could meet up to 15% of the current UK electricity demand. Wave power is a highly concentrated energy source and the western seaboard of Europe offers an enormous number of potential sites, with the most promising locations off the UK, Ireland, France, Spain, Portugal and Norway.

**Further information and videos of the Pelamis in operation are available on the websites below.**



[www.oceanprospect.com](http://www.oceanprospect.com)



[www.eon-uk.com](http://www.eon-uk.com)



[www.pelamiswave.com](http://www.pelamiswave.com)