

WAVEPORT

WAVE ENERGY POWER GENERATION

WAVEPORT PARTNERS:



Demonstration & Deployment of a Commercial Scale Wave Energy Converter with an innovative Real Time Wave by Wave Tuning System

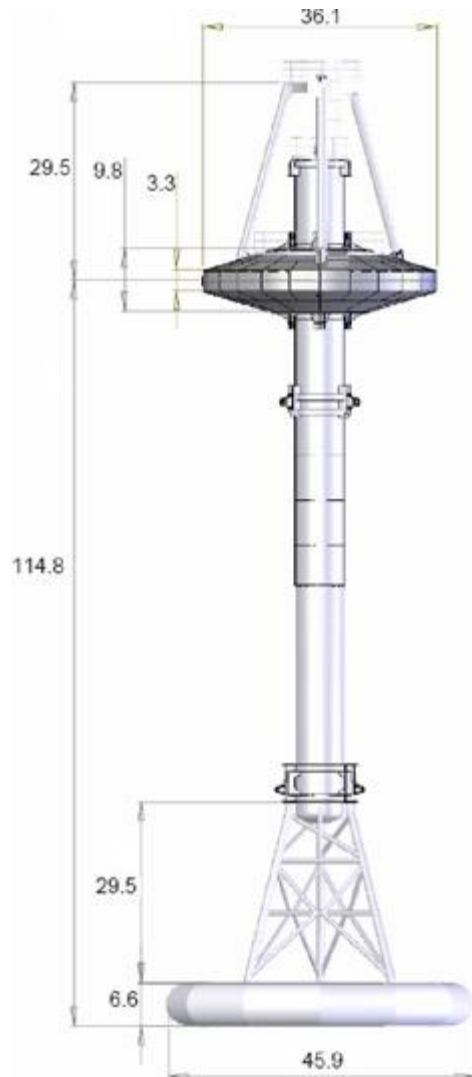
About WAVEPORT

Main goals

- To demonstrate a large scale grid connected energy point absorber with a peak rated output of 150kW.
- To develop an underwater substation pod for the validation of future energy converters
- To address the need for improved efficiency: **development and demonstration of a novel Real-Time Wave-by-Wave tuning system**

“Main barrier to wave energy expansion is the lack of large , commercial-scale demonstration of the technology“

The Technology PB150 PowerBuoy®

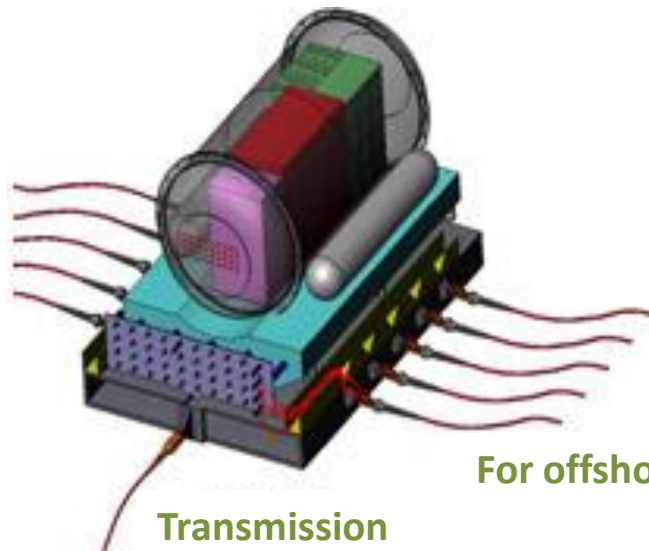


- Floating offshore wave energy converter
- Float moves with the rise and fall of the waves.
- This movement is coupled to a power take off device which in turn drives a generator, producing electricity



PB150 – Scotland

Innovative Underwater Substation Pod™ (USP)



Transmission cable to grid

For offshore Powerbuoys

A cost-effective, environmentally responsible means of networking and transmitting offshore power and data to onshore electric utility grids

A 1.5 MW USP was built and tested as part of OPT's Santoña (Spain) project with Iberdrola



Sea trials

PB40
Atlantic city, New Jersey



PB150
Scotland



PB40
Kaneohe Bay, Hawaii



PB40
Santoña, Spain

