

Oyster 2 Pipelines Conceptual Study

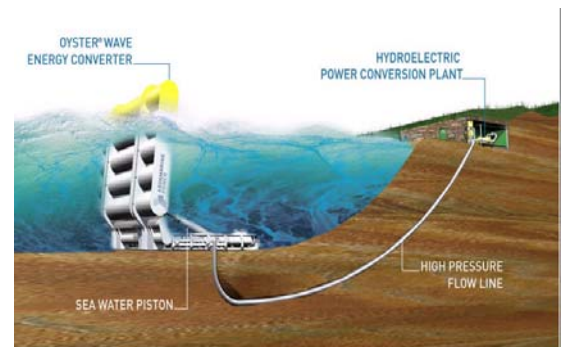
Aquamarine Power

Oyster 2 is an expansion of the Oyster 1 prototype installed at the EMEC test site in Orkney which consists of a simple steel Oscillating Wave Energy Converter (WEC), or pump, fitted with double acting water pistons, deployed near-shore in depths around 10-12m. Each passing wave activates the pump which delivers high pressure water via a sub-sea pipeline to the shore. Onshore, high-pressure water is converted to electrical power estimated using proven, conventional hydro-electric generators.

Oyster 2 will be developed as an interlinked array of WECs with an associated control and monitoring system which can be installed with varying techniques driven by the geotechnical site conditions.

Andrew Palmer & Associates scope of work:

- Concept design options
- Pipeline materials review
- Codes and standards review
- Mechanical and control drawings
- Construction installation options
- Spreadsheet-based selection/ cost estimation tools



Location: Various
Block: Various
Water depth: 10-12m
Duration: 6 weeks



Contract:	Lump Sum			
Manhours:	<500 <input type="checkbox"/>	500-5000 <input checked="" type="checkbox"/>	5000-10,000 <input type="checkbox"/>	>10,000 <input type="checkbox"/>
Penspen Value:	<\$100k <input checked="" type="checkbox"/>	\$100k-500k <input type="checkbox"/>	\$500k-1,000k <input type="checkbox"/>	>\$1,000k <input type="checkbox"/>

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