



PERTH WEP

Name of person filing the form

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Project name: Perth Wave Energy Project

Project description:

Project Developer: Carnegie Wave Energy Limited

Technology type: Point Absorber, Submerged (CETO wave energy technology)

Resource: Wave

Project scale (test site, prototype, array, commercial): Single device.

Installed capacity (MW): 2MW

Additional Description: CETO is a fully submerged, pump-based technology whereby a submerged Buoyant Actuator moves with the energy of the ocean's waves, 1-2 metres below the surface of the ocean. The Buoyant Actuator is attached to a pump via a tether, and the entire system is moored to the seabed. As the Buoyant Actuator oscillates with the wave motion, it allows the pump to extend and contract propelling high pressure fluid ashore via a subsea pipeline. The high pressure fluid then powers an off the shelf hydroelectric turbine to generate clean renewable electricity.

Project Website: <http://www.carnegiewave.com/index.php?url=/projects/perthproject>

Location: Garden Island, Western Australia, home to HMAS Stirling, Australia's largest naval base.

Coordinates:

Process status:

Current status of the project implementation and future developments:

Expected operation date: Construction and commissioning is targeted to be completed in 2013.

Licensing information (brief description):

Key Environmental issues:

Environmental webpage:



Baseline and project effects studies:

General description				
Receptor	Study description including question and/or objective (several can be listed per receptor)	Design and methods (brief description)	Results (brief description)	Status (planned, underway, completed, with dates)
Physical environment				Planned
Benthos				Planned
Fish and fisheries				Planned
Large vertebrates				Planned
Birds				Planned
Reports and papers	-			

Monitoring and adaptive management

General description				
Receptor	Monitoring program description including question and/or objective (several can be listed per receptor)	Design and methods (brief description)	Results (brief description)	Status (planned, underway, completed, with dates)
Benthos				
Large vertebrates				
Birds				
Marine uses/ users				
Other (can be named)				
Reports and papers	-			