

Nearshore OWC Technical Information

:: The Nearshore OWC is an ideal unit for electrical power generation into an existing grid or, with a standby support, as a prime power source for remote island communities. The system is equally suited to powering desalination plants.

The Nearshore OWC rests directly on the seabed and is designed to operate in the near-shore environment in a nominal mean water depth of 15m.

Optimum performance will be achieved when driven by a long ocean swell generated over a fetch of more than 400km. Lesser seas may also produce satisfactory performance.

In extreme storms the incoming power will be greater than the device capacity and the automatic control system will cap power generation at the maximum rating.

The pneumatic power of the Oscillating Water Column (OWC) is converted to electricity by a Wells turbo generator and specially designed induction generators. Power is brought ashore by subsea cable.

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