

Islay

:: The Limpet unit on Islay has an inclined oscillating water column (OWC) that couples with the surge-dominated wave field adjacent to the shore. The water depth at the entrance to the OWC is typically seven metres.

The design of the air chamber is important to maximise the capture of wave energy and conversion to pneumatic power.

The turbines are carefully matched to the air chamber to maximise power output.

The performance has been optimised for annual average wave intensities of between 15 and 25kW/m. The water column feeds a pair of counter-rotating turbines, each of which drives a 250kW generator, giving a nameplate rating of 500kW.

The Limpet's design makes it easy to build and install. Its low profile gives low visibility, so it doesn't intrude on coastal landscapes or views.



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