



## Floating Power Plant - Poseidon

<b>General:</b>	Poseidon is a concept for a floating power plant invented by the Danish clean-tech company Poseidon Floating Power. The plant is a hybrid design consisting of a wave energy converter that also acts as a floating foundation for three wind turbines. A demonstration and test plant "P37" in scale 1:4 was launched in the autumn of 2008 and is moored within an existing wind turbine farm in Denmark. The plant transforms wave energy into electricity through hinged floats, piston pumps and a water turbine. In addition, a system where generators are driven directly by the floats through a mechanical system is tested.	
<b>Main Particulars:</b>	Length o.a.	25.00 m
	Breadth	37.00 m
	Weight	350 t
<b>Capacity:</b>	Number of floats	10
	Wind turbines	3 x 11 kW
<b>Scope of Work:</b>	Lightweight calculation Stability calculation Design of turret mooring system and detachable buoy Modification of storm securing devices Modification of pump system Vibration calculations and modification of body structure Design of set-up for model testing of floats and direct energy conversion system	
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