



UK to NZ Mission on Renewable and Clean Energy

**AWATEA Meeting
Meridian Energy' Offices,
Wellington**

2 February 2009





OceanNavitas

RENEWABLE ENERGY TECHNOLOGY

Renewable Technologies & Sustainable Wave Energy Generation

Who are Ocean Navitas?

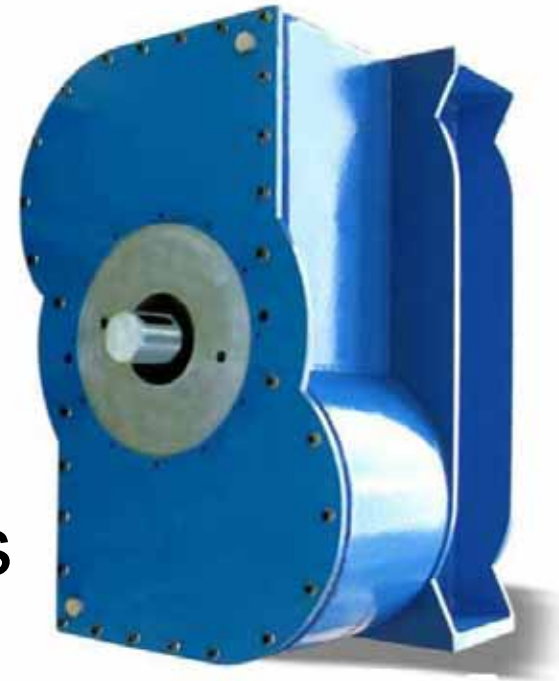
- Established in 2006
- Wave energy technology developer
- Based in United Kingdom
- Looking for opportunities in NZ



Renewable Energy Technology & Sustainable Wave Energy Generation

What is the technology?

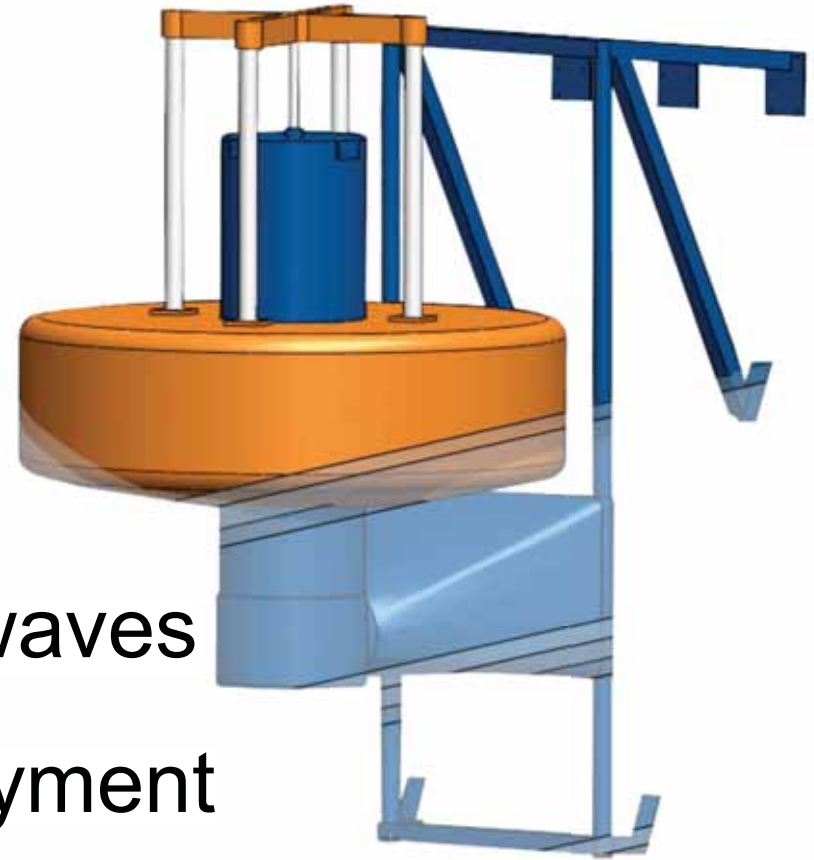
- The Aegir Dynamo
- Direct Mechanic Drive
- 98% Conversion Efficiency
- Multiple deployment options



Renewable Energy Technology & Sustainable Wave Energy Generation

Shore-Based

- Up to 45kW
- Cost effective
- Operational in 1.5m waves
- Piled or affixed deployment



Renewable Energy Technology & Sustainable Wave Energy Generation

Offshore Buoy

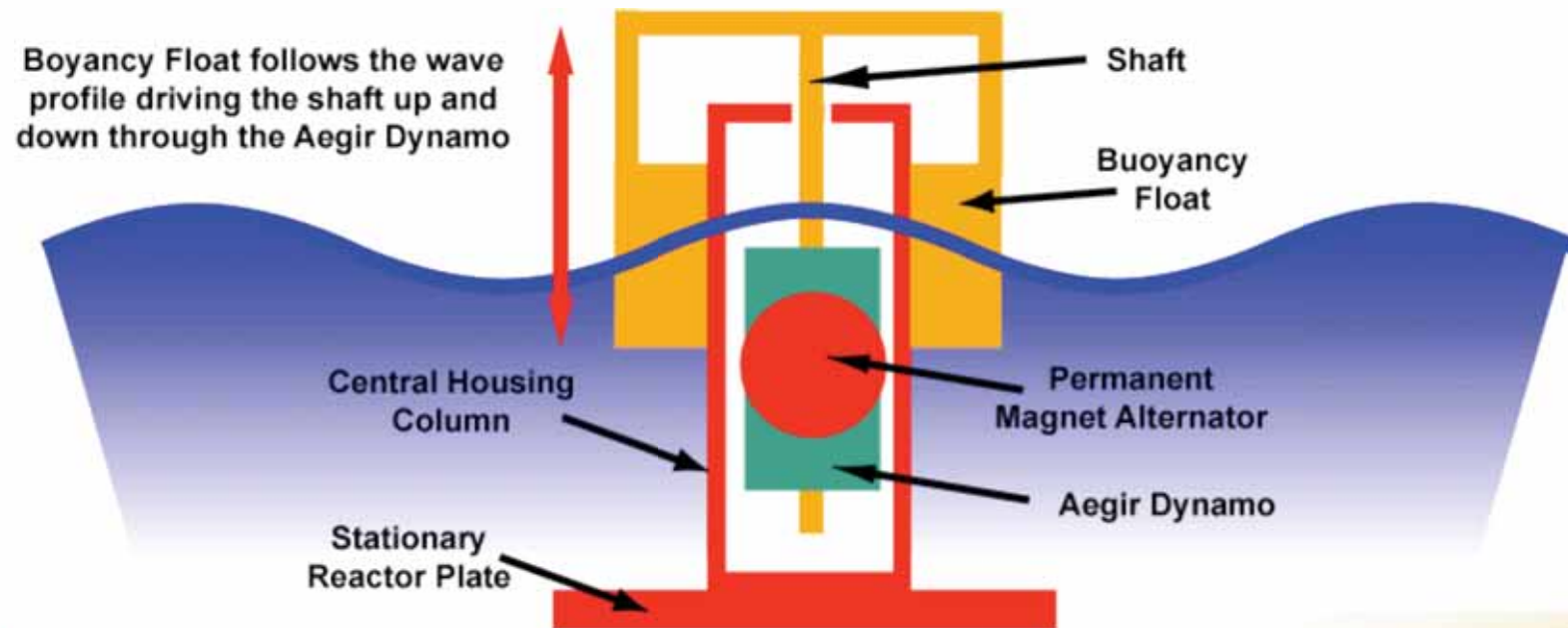
- 200kW or 1.4MW options
- High mass to power ratio
- Low cost per kWh
- Operational in 2.5m waves



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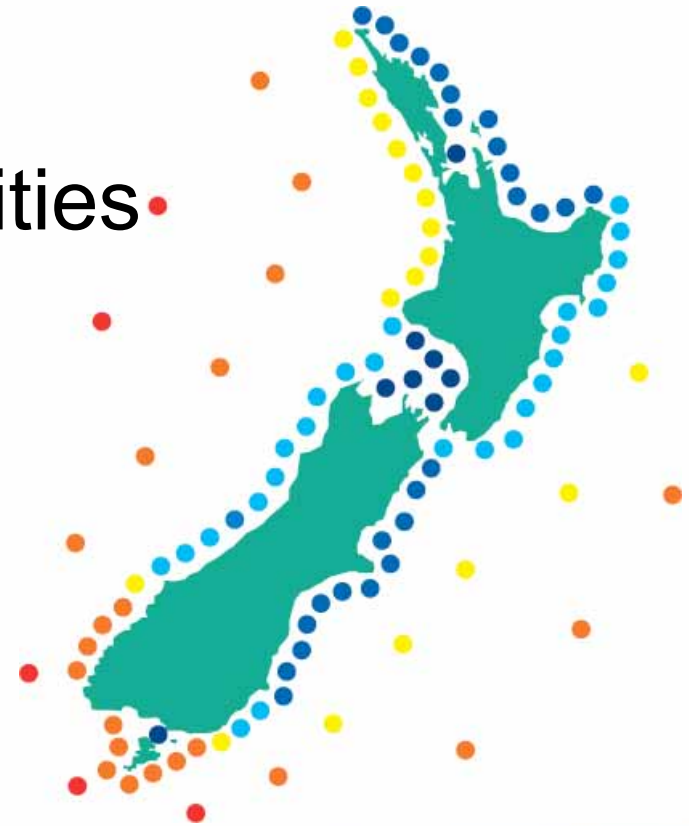
How does it Work?

- Point Absorber



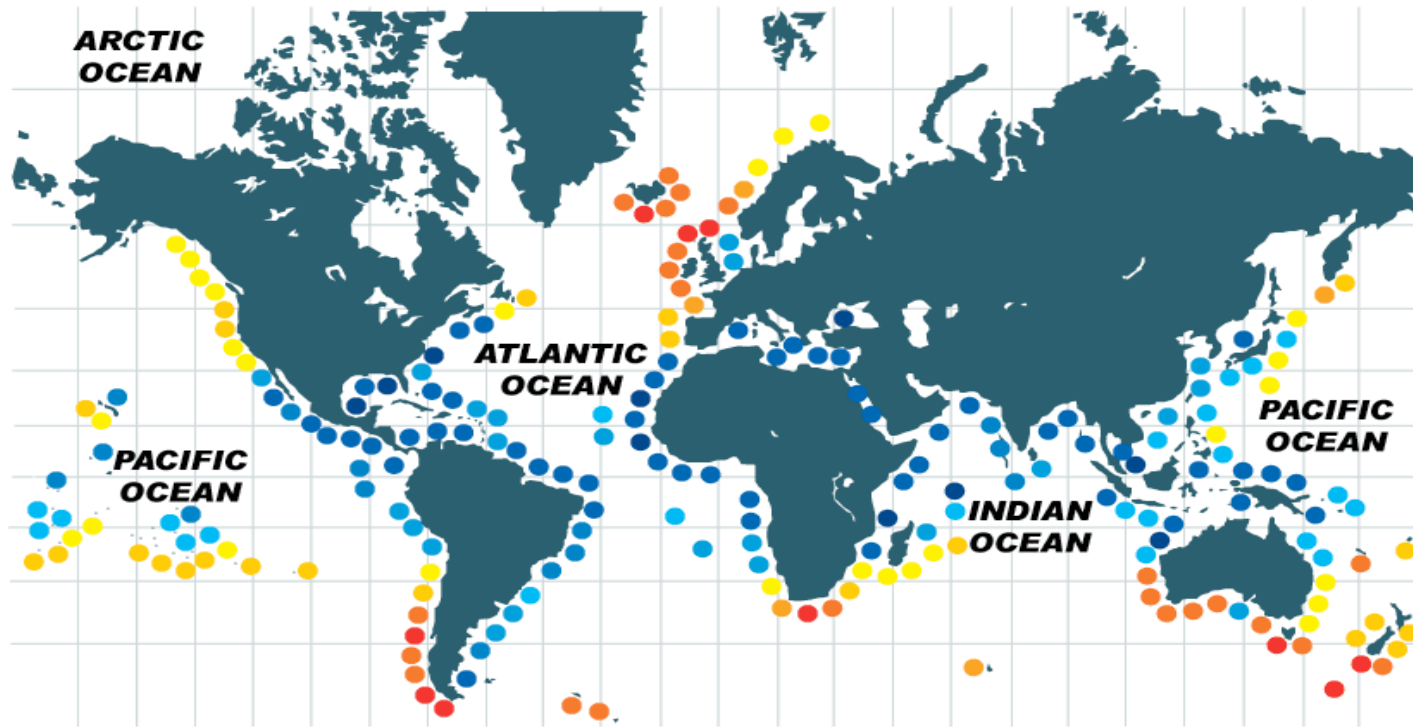
Our interest in NZ

- Isolated coastal communities
- Government incentives
- Natural wave resource
- Manufacturing capability



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What is the resource?



World wave power availability in KW/metre of wave front

- Above 60
 - 50 - 60
 - 40 - 50
 - 30 - 40
 - 25 - 30
 - 20 - 25
 - 15 - 20
 - 10 - 15
 - 5 - 10
 - Below 5
- Map for illustration purposes only



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