



JETRO ASIA PACIFIC GREEN TECH FORUM November 2010

Ocean Power Technologies



PowerBuoy deployed off Tuckerton, New Jersey, 2005-2006; 2007-2009



PowerBuoy deployed off Marine Corp Base Hawaii June 2007



PowerBuoy deployed for Iberdrola in Spain 2008



PowerBuoy deployed off Marine Corp Base Hawaii Dec 2009

- Commenced active operations in 1994
 - Headquarters Pennington, NJ
 - 60 employees
- Focus on electrical power generation from ocean waves
- Independent Grid certification (IEEE)
- Over 10 years experience in producing electrical power from ocean waves
- Ocean-tested and proprietary technology
 - 41 Patents issued & 16 pending
- Listings on Nasdaq and London's AIM market
 - Rapid commercialization under way with a defined growth plan

PowerBuoy Applications

Autonomous PowerBuoys (APB)



OPT's PowerBuoy deployed at sea for US Navy test September 2004

Projects

Where power is needed on location

- •Autonomous Maritime Surveillance
- US Navy/Lockheed Martin/Homeland Security
- Surface Vessel Detection Port & Expeditionary
 Other Applications
- Ocean surveillance offshore oil & gas fields
- Open Ocean Aquaculture

Utility PowerBuoys



Site of Navy project in Hawaii

Projects

Power for the Utility Grid

- New Jersey Board of Public Utilities
- US Marine Corps Base Hawaii
- Australia 19 MW Wave Farm
- Japan Mitsui Engineering & Shipbuilding
- UK Department of Trade & Industry Wave Hub
- OPT Wave Park-Reedsport, Oregon
- Scottish Executive EMEC Orkney, Scotland

PowerBuoys for Wave Power





- Initial products rated at 150 kW; 500 kW products available in 2013
- Wave park ratings in 100's of MW's attained by grouping into arrays
- Operating wave range of 1.5 to 7m
- Automatically locks up for storm and hurricane wave conditions above 7m
- Designed to survive 100 year storm wave conditions
 - § 24m Orkney Islands, Scotland
 - § 20m Bay of Biscay, Spain
 - § 18m Portland Victoria
- Demonstrated survivability in storms/hurricanes

OPTA Wave Power Station View From Shore



OPT PowerBuoy Deployment - Spain

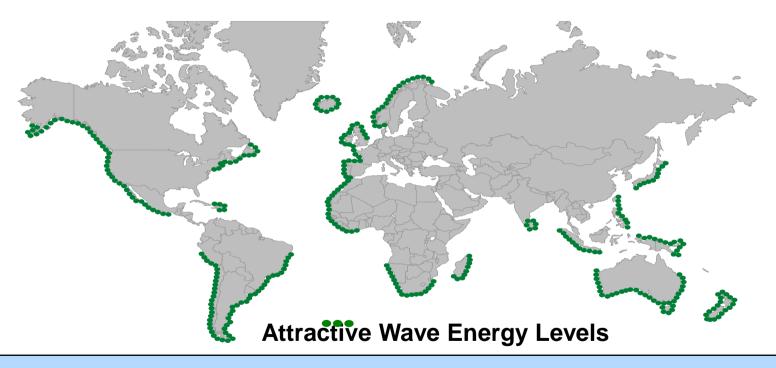








Japan has Best Potential in NE Asia



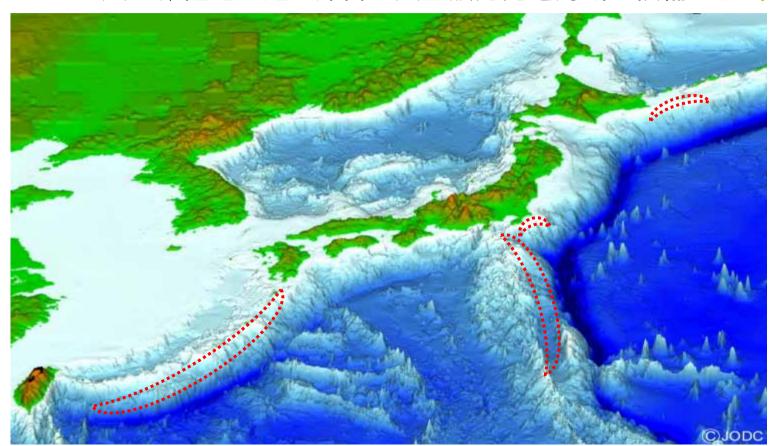
2TW of energy, the equivalent of twice the world's electricity production, could be harvested from the world's oceans (World Energy Council)

波力発電の事業展開 Stage 1 離島発電

現状発電コストが非常に高い(100円/kWh~)離島発電から入り、発電効率アップとコストダウンを進めながら全国に展開する。



日本近海で波力発電に最も適した海域 波パワーが大きく、陸地に近い沖合が大型波力発電海域の候補になる。



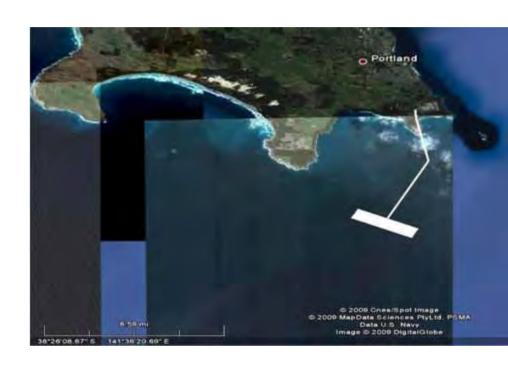
PORTLAND PROJECT 2010

Victorian Wave Partners

- § 19 MW in 3 stages, demonstrating cost reduction path
 - § 1.5 MW 2013/14 (technical demo)
 - § 5.0 MW 2014/15 (expansion)
 - § 12.5 MW 2015 (commercial demo)
- § 5 year staged Program over \$200 million
- § Federal Funding \$66.5m, Potential Victorian Government Support
- § Building on previous Portland base
- § 1.8 million tonnes of CO2 avoided

Portland Project Area

- 20 ha
- Expansion potential
- Next to Alcoa (600MW)
- Near local grid
- Near Pac Hydro substation
- Excellent local service
- infrastructure



Global Contracts, Partners and Future Projects

