

OPT

第2回波力発電検討会 資料5

OCEAN POWER TECHNOLOGIES



COMPANY PRESENTATION

October 2009

Company Overview

Operating locations:	Pennington, NJ, USA and Warwick, UK
Total number of employees:	59
Commenced active operations:	1994
Incorporation:	Delaware, USA
Revenues:	\$4.0 million (financial year ended 30 April 2009)
Cash balances:	\$79.0 million (as of 31 July 2009)
Nature of business:	Sale of turnkey wave power stations and custom ware power applications, plus related maintenance contracts
Public Listings:	Nasdaq (symbol: OPTT); London Stock Exchange's AIM (symbol: OPT)

Standard PowerBuoy Manufacturing Process

- Buoy fabricated near coastal site
- Power take-off and control system (“smart-part”) built in New Jersey
- Integration and test of completed PowerBuoys at dockside near coastal site



PowerBuoy at Fabrication Site

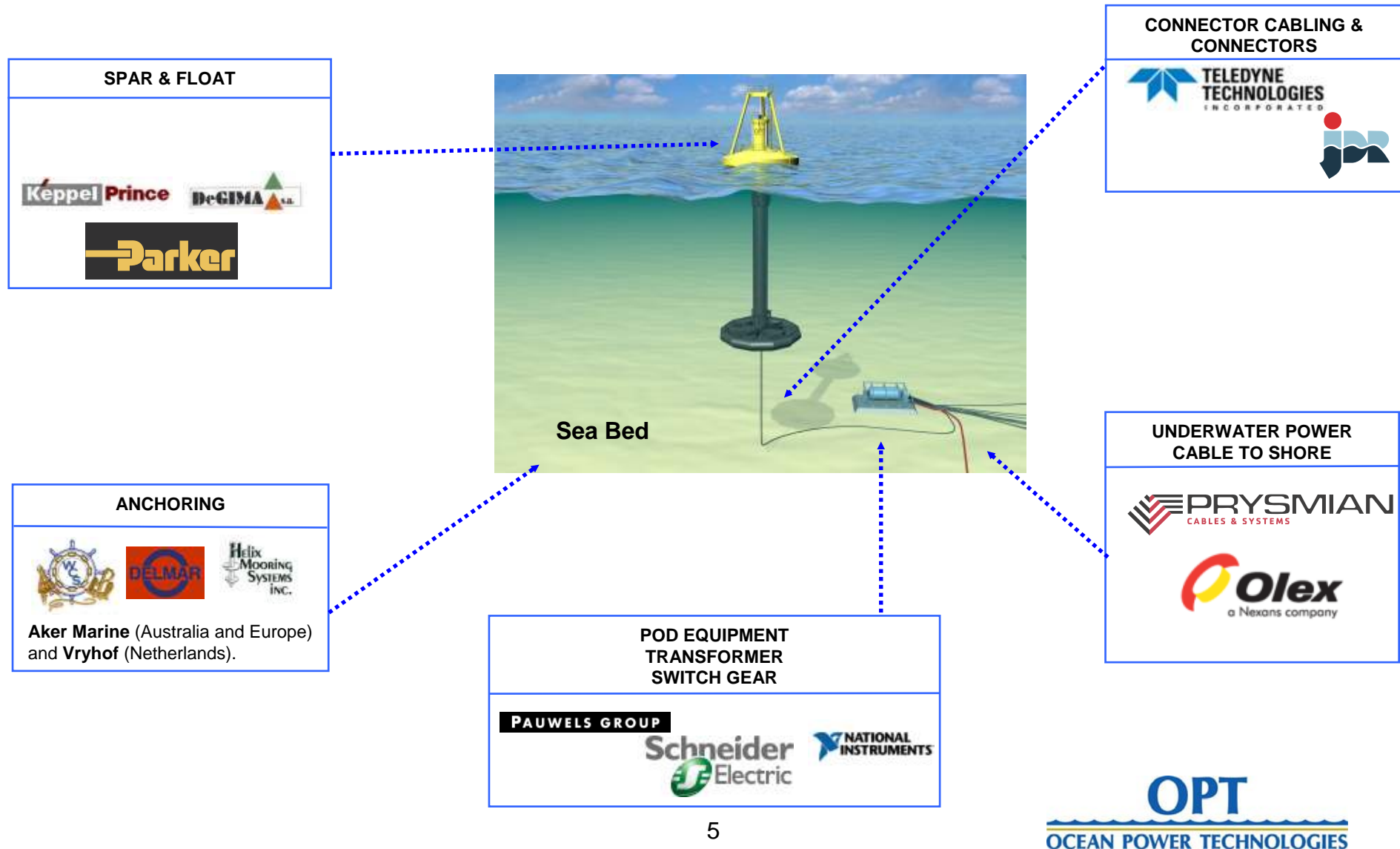


Power Take-Off & Control System

PowerBuoy Deployment Process



World-Class Supply Network



OPT - Competitive with Other Energy Sources

	Renewables					Fossil Fuel	
	OPT Wave Power (a)	Solar PV	Solar Thermal	Biomass	Wind (b)	Natural Gas	Coal
Capital Cost \$ million per MW	\$3.9	\$7.2 – 10.4	\$4.3 – 5.9	\$2.9 – 3.9	\$1.5 – 3.1	\$0.6 – 1.0	\$1.5 – 2.0
Energy Cost ¢ per kWh	15¢	50 - 134¢	24 - 34¢	14 - 20¢	8 – 16¢	4 - 7¢	4 - 7¢

Additional prospective benefits can be derived from:

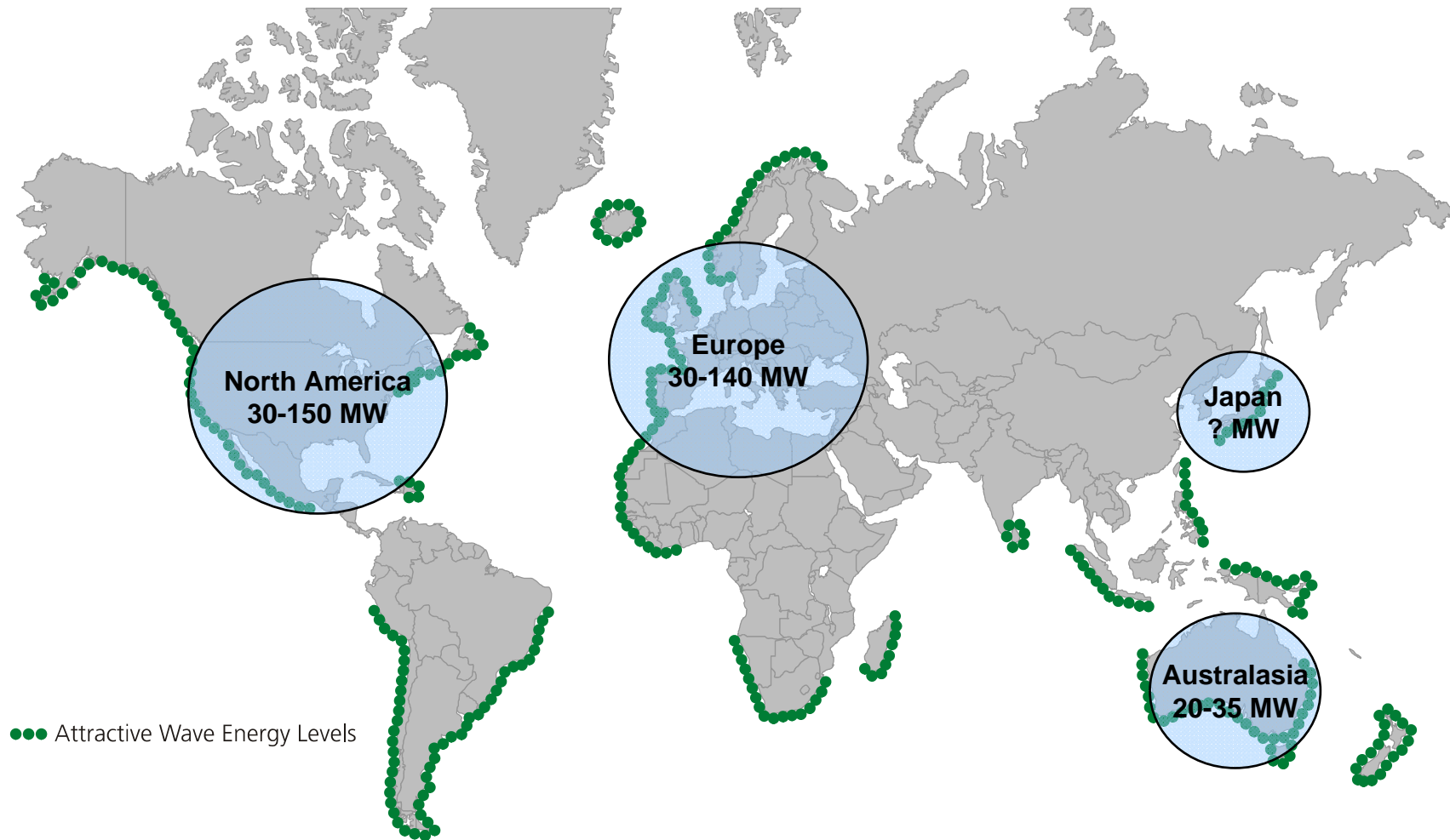
- Tax Credit monetization – e.g. US Production and Investment Tax Credits, Oregon Energy Tax Credit
- Green tags, renewable obligation certificates, carbon credits
- Grants, subsidies, tariffs – e.g. UK Marine Renewables Deployment Fund, Portugal feed-in tariffs

(a) Company projected costs based on production levels of 400 PowerBuoys per year

(b) Includes offshore and onshore wind

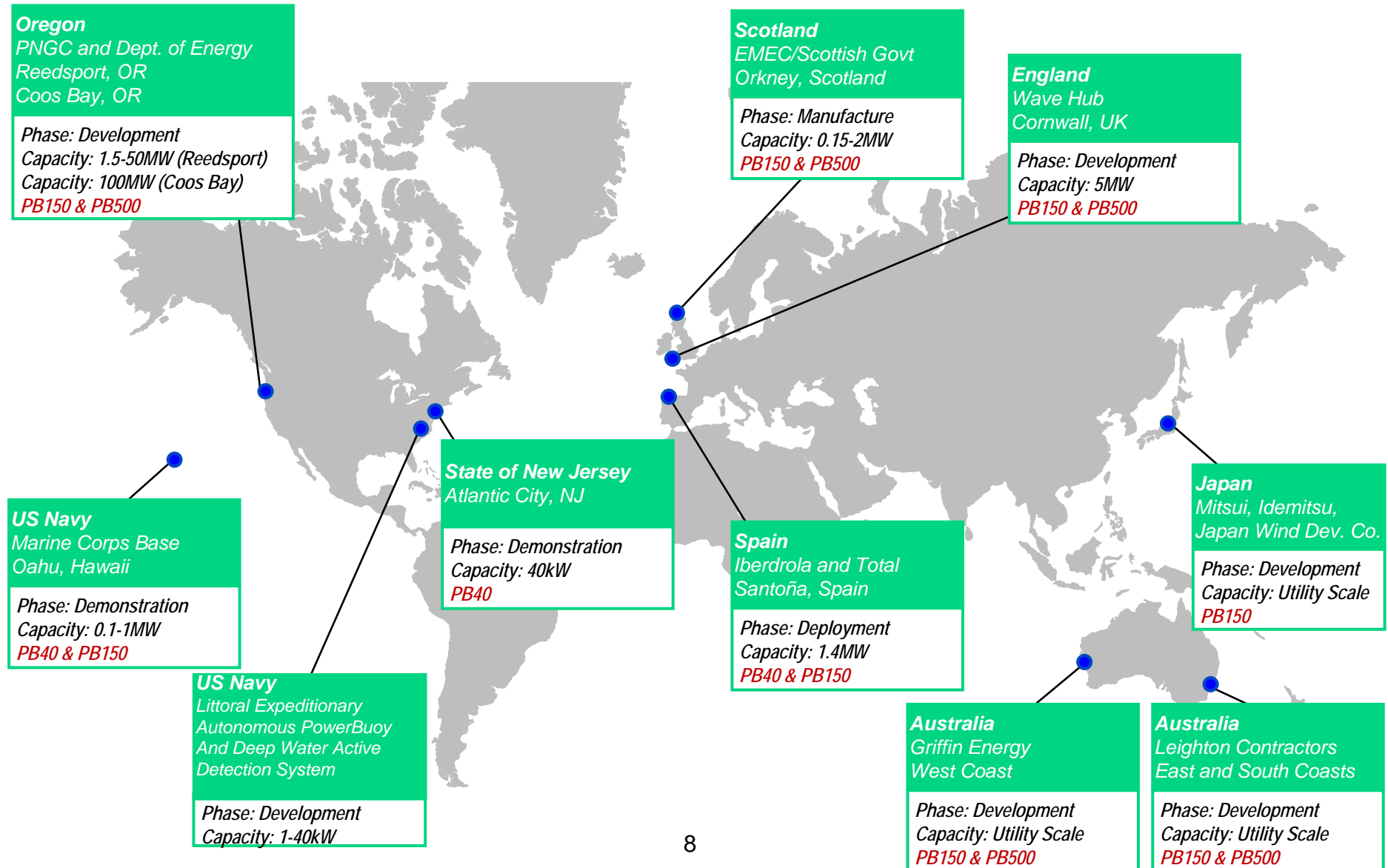
Sources: Ernst & Young 2007 "Impact of banding the Renewables Obligation – Costs of electricity production", Pöyry 2007 "Compliance costs for meeting the 20% Renewable Energy Target in 2020", IEA 2005, "Project Costs of Generating Electricity" (note: Wind low-high range reflects on-shore and off-shore generation) (note: exchange rates used, £/\$ = 1.6 and €/£ = 1.4)

Ongoing Utility Marketing Initiatives



- Target sales price in production volumes is \$4 million/MW, will be higher initially

Global Contracts, Partners and Future Projects



Appendix

Recent PowerBuoy Technology Advancements and Project Update

Four Buoy Deployments in FY2009

NJ



NJ – US Navy
DWADS

Hawaii-
US
Navy

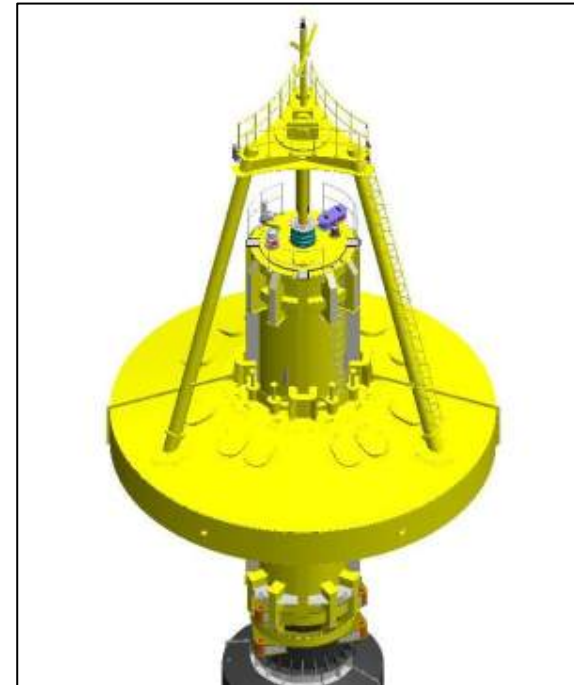


Spain - Iberdrola

PB150 PowerBuoy System



PB150 Power Take-Off System, Warwick, UK



PB150 PowerBuoy

- PB150 being manufactured; ready for installation at EMEC by end 2009
- Progressing 3rd-Party Certification for structure and mooring system

Manufacturing of PB150

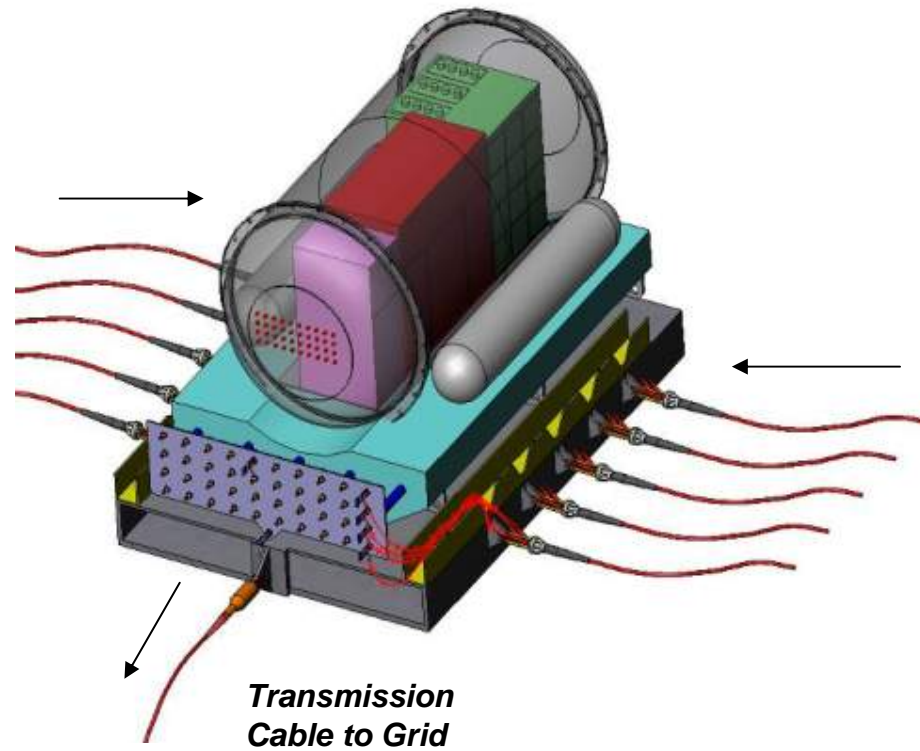


Undersea Substation Pod (USP)



*USP
Electrical
Internals*

*From
Offshore
PowerBuoys*



- USP sea testing in Summer 2009
- USP applicable for wave, wind and tidal
- Patent pending

Undersea Substation Pod Product Line

- Unique features
- An enabler for field development of any marine energy device
- Lowers cost per MW installed
- Already receiving much interest
- Expected to be multi-sale cash generator product for OPT



OPTA

OCEAN POWER TECHNOLOGIES AUSTRALASIA



ポートランド ウェーブ プロジェクト
October 2009

PORTLAND PROJECT

- Victorian Wave Partners Proposal
- 19 MW in 3 stages, demonstrating cost reduction path
 - 1.5 MW
 - 5.0 MW
 - 12.5 MW
- 6 year Program - A\$223 million
- Federal and State Funding Applications Filed
- Building on previous Portland experience

Portland

- 人口 (**12,000**)
- 設備 (港、アルミナ、製造工場 など)
- 経験 (以前の試験)
- ウェイブエネルギー (1mに60kW)
- 政府の協力 (京都条約、援助金、**CO2削減、GFC**)

19 MW Victorian Wave Power Project

- CO2 削減 1.8 million tonnes
- 地域経済への影響:
 - Deep sea applications (Autonomous Power Buoy)
 - Centre of Excellence (Deakin University etc)
 - Expansion potential to 100's of MW
- UK ワーブハブの例 (20MW - 50MW)
 - 1000 new jobs (UK Gov't estimate)
 - \$1 billion into the economy

Project Area

1000 ha

Expansion potential

Next to Alcoa (600MW)

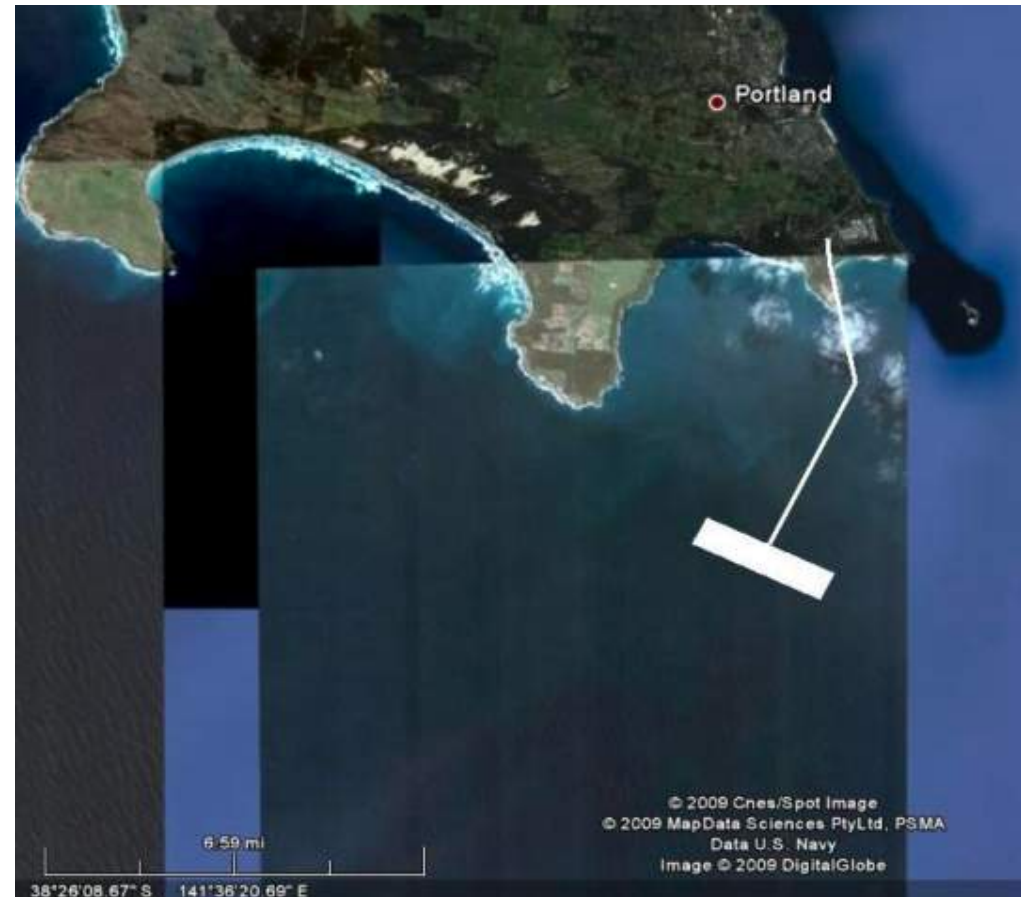
Near Powercor grid

Near Pac Hydro substation

Excellent infrastructure

Approvals experience

Excellent delivery partner



OPT

OCEAN POWER TECHNOLOGIES



“The Greatest Potential to Make a Difference”

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