

# Ocean Energy in Oregon: “Where’s the beef?”

Jason Busch, Executive Director OWET/POET

Promoting Responsible Development of Ocean Energy

OregonWaveEnergyTrust









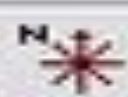
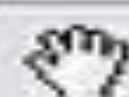
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6/6/2008 1:41:55 Starboard, Range: 20.16m, Zo



20.0  
15.0  
10.0  
5.0  
0.0



0.0 5.0 10.0 15.0 20.0

Lat:   
Lon: 13

Length

Width

Height

Height

Outline

Name

# Calm before the storm....



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Or....?



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BE AN

OPTIMIST  
PRIME



NOT A

NEGATRON









# Oregon Wave Energy Trust (OWET)

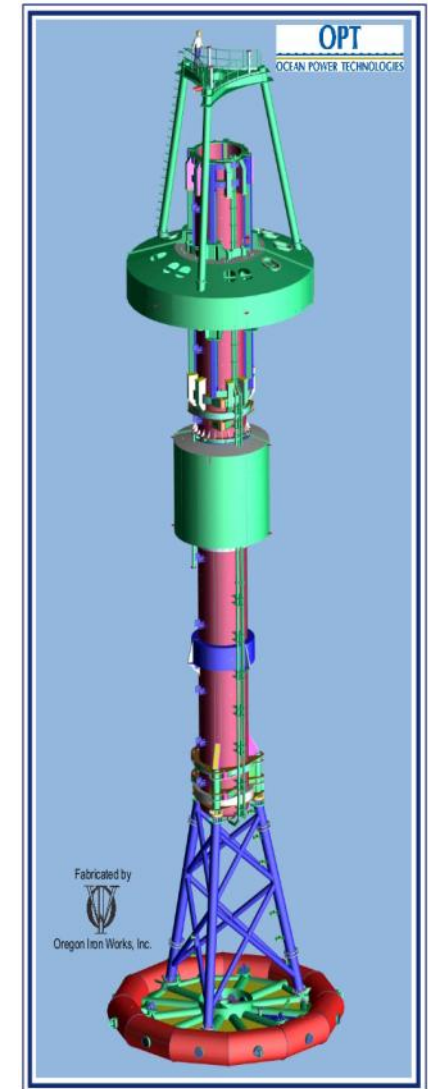
- ▶ Nonprofit public-private partnership funded by the Oregon Business Development Department through the Oregon Innovation Council
- ▶ Mission: to support the responsible development of wave energy in Oregon

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# Ocean Power Technologies

- ▶ Reedsport
  - ▶ Phase 1 - 150 KW device
  - ▶ Phase 2 - 1.5 MW: license application filed
  - ▶ Will be first grid connected array in North America
  - ▶ 32 NW companies involved in the construction
  - ▶ Phase 3 – 50 MW
- ▶ Coos Bay
  - ▶ Proposed 100 MW



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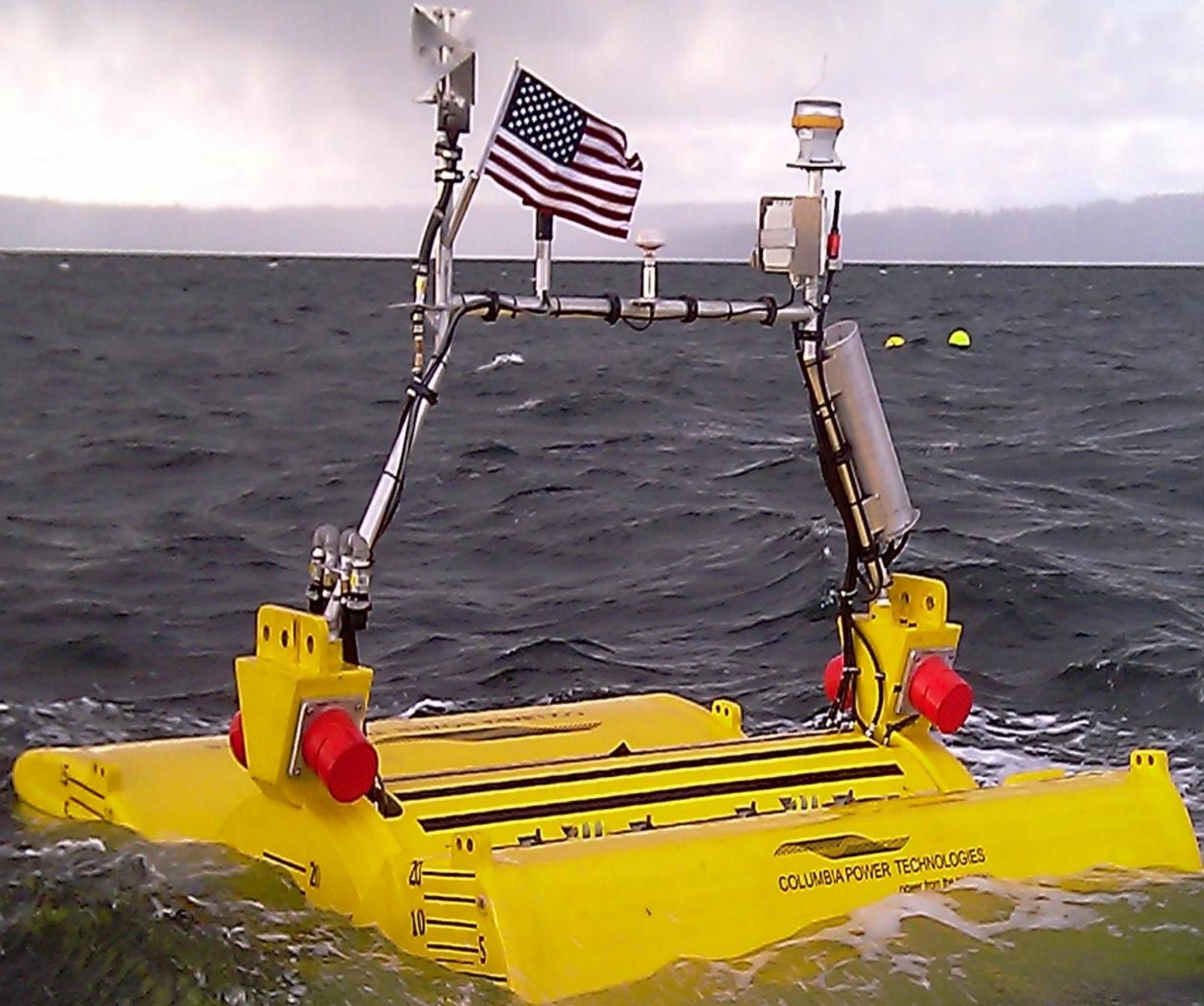
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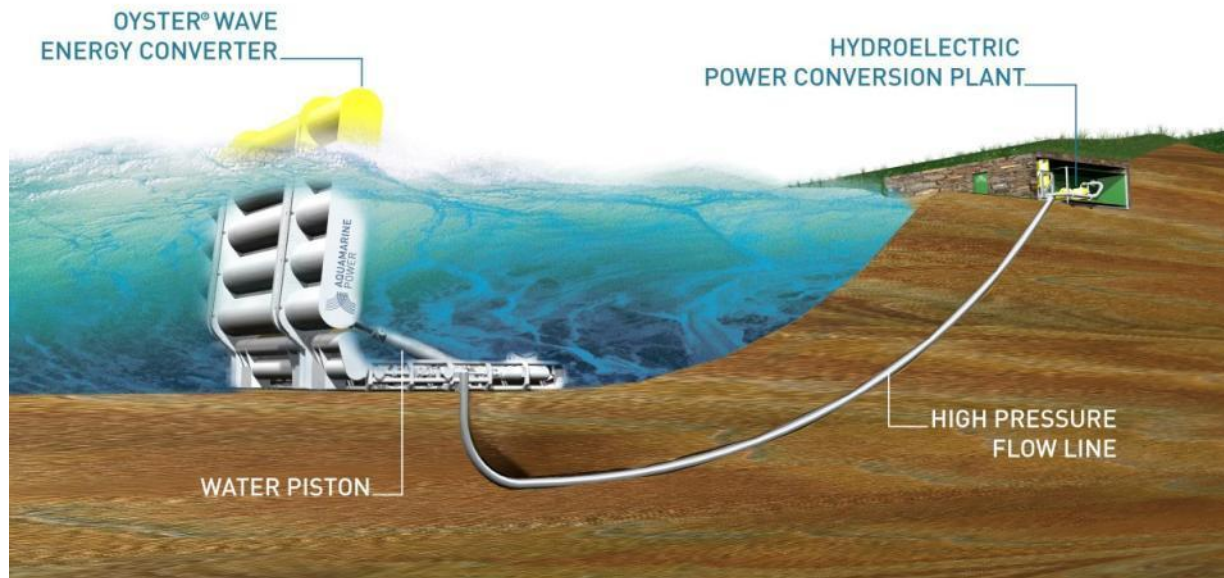








# Aquamarine Power



- ▶ Large mechanical 'flap' moves back and forth with motion of waves
- ▶ Two hydraulic pistons pump high pressure water via pipeline to shore
- ▶ Conventional hydro-electric generator located onshore
- ▶ Secured to seabed at depths of 8 – 16m (33-55 feet mean water depth)
- ▶ Located nearshore, typically 500 – 800m from shoreline
- ▶ Suitable for installation on any type of seabed (sand, clay or rock)



# Floating Power Plant – Poseiden 37





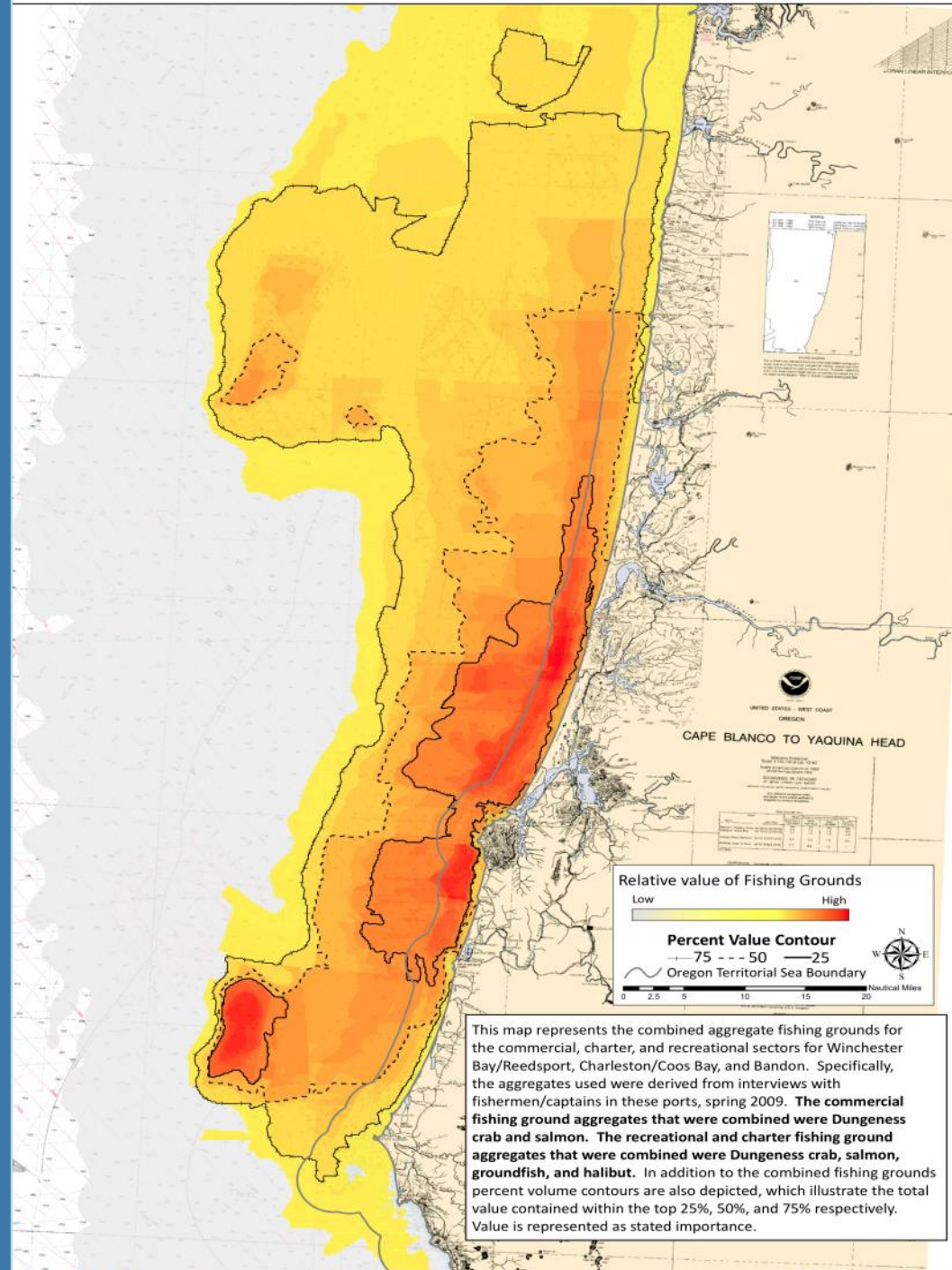
# Projects/Companies in Oregon

- ▶ Newport/OSU Testing Site
- ▶ Ocean Power Technologies
- ▶ Aquamarine
- ▶ Wavegen
- ▶ Columbia Power Technologies
- ▶ WaveEnergy AS
- ▶ Principle Power
- ▶ Floating Power Plant
- ▶ M3 Energy
- ▶ Neptune Power
- ▶ Ocean Kinetics
- ▶ OWHAP



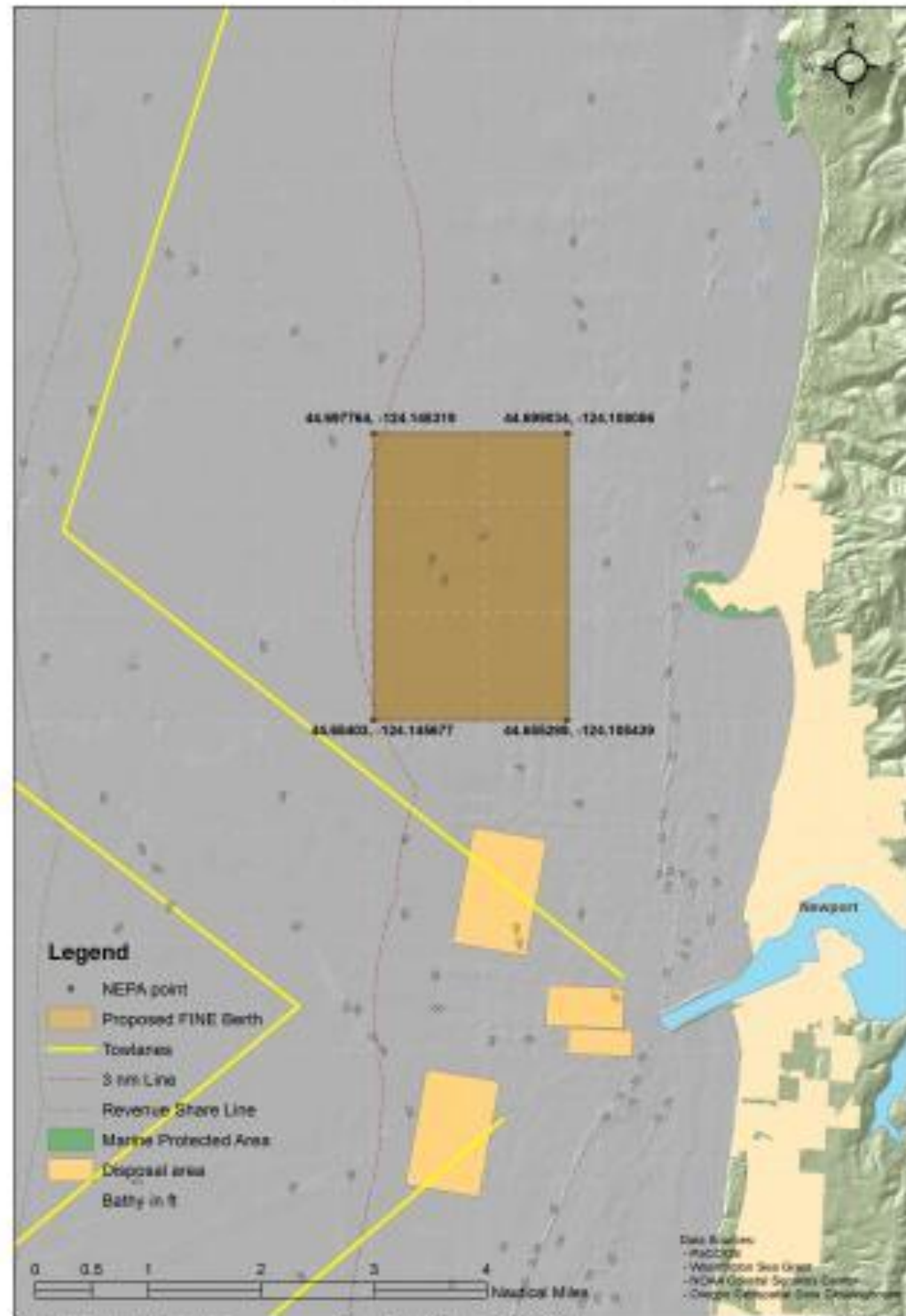
## Southern Oregon Ocean Resource Coalition (SOORC) Pilot Project Combined Value Fishing Grounds

All landings (Winchester Bay/Reedsport - Charleston/Coos Bay - Bandon), All sectors (commercial, charter, recreational sport boat)





# FINE Wave Energy Buoy Test Berth Siting Map



# NNMREC



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# Questions?

[www.oregonwave.org](http://www.oregonwave.org)

OWET Executive Director Jason Busch  
[jbusch@oregonwave.org](mailto:jbusch@oregonwave.org)

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