



# **Marine Energy Technology Advancement in US: State/Federal Partnership**



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# Marine Energy Accelerator Project: What is It?

- Increase public funding to support most promising wave, current, and tidal devices through full scale prototype deployment
- Demonstration of full scale devices at sea is central to realizing the potential of marine energy and catalyzing first commercial projects in US waters
- Value proposition: interested states can leverage DOE funding and technology expertise to accelerate faster progress in marine energy commercialization

# Project Partners

- State Partners:
  - Clean Energy States Alliance (CESA)
  - National Association of State Energy Offices (NASEO)
  - Association of State Energy Research and Technology Transfer Institutions (ASERTTI)
- Federal Partners:
  - DOE, NREL
- Interested States
  - Massachusetts, New York, Alaska, California, Oregon, Maryland, New Jersey, Hawaii, Washington, Florida, and Maine



# Marine Partnership Activities

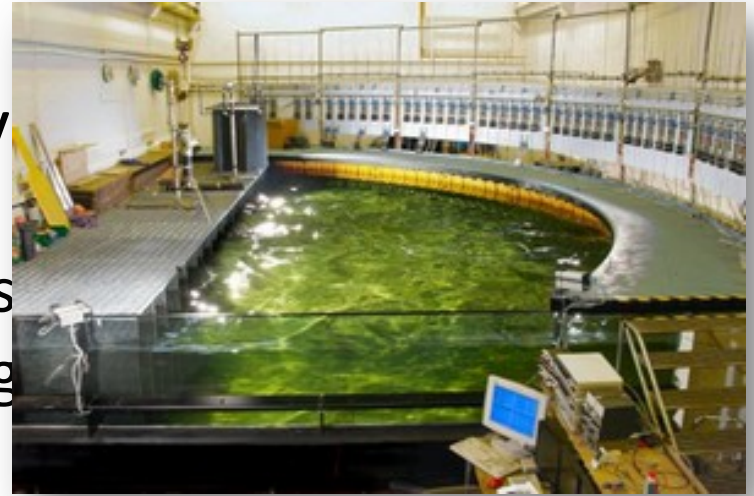
- Establish **marine energy technology partnership network**
- **Survey** states on MHK activities and priorities
- Provide state input to **national marine energy roadmap**
- Develop Fed-State **joint or coordinated funding & solicitation** process for public support of marine energy demonstration projects
- Advance **test facilities** activities and cooperation
- Identify other areas for state collaboration in marine energy



Ocean Power Technologies has contracted with Oregon Iron Works to start building what it hopes will become a 10-buoy test system in the waters off Reedsport, OR.

# Survey Results

- 14 States Responded
- The most important activity advance MHK:
  - Development of test facilities
  - Increase government funding
  - Improve regulatory process
  - More environmental studies
- States supporting:
  - Feasibility studies, resource assessments, demonstration projects, test facilities and environmental assessments



# Joint Procurement LONG-TERM OPTIONS

**State Matching Grant  
Funding**

OR

**State-Issued Cost Share  
RFP**

OR

**DOE-Issued RFP with  
State Matching Funds**

*State automatically provides matching funds to awardees of DOE-issued FOA within their state, without agreement with DOE*

*State issues RFP in response to DOE FOA; commits matching funds to in-state applicants meeting state criteria and selected by DOE*

*DOE and states enter into agreement prior to issuing FOA; DOE FOA lists participating states and match for projects selected in their state or region*

# Current Status

- 8 States in process of/interested in signing MOU with DOE for FY12 MHK Tech advancement RFP
  - Massachusetts
  - New York
  - New Jersey
  - Maryland
  - Oregon
  - California
  - Hawaii
  - Alaska



# Test Facilities: State-Federal Joint Funding

- DOE Gaps Analysis completed
- Conclusions:
  - Expensive capital and operating costs
  - Likely only a few will be funded in US in near term
  - Will require leveraging state resources as well as other infrastructure; offshore wind, marine testing devices, etc
  - Multi-state Mobile Test Berth?
- Opportunities to share information across facilities- establish network



# DOE and States may pursue Additional Areas for Joint Efforts

- Regulatory  
Coordination
- Environmental  
Studies and  
Monitoring Protocols
- International and  
other sector  
Collaborative models



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