

# Marine Alternative Energy

*Navigating the Regulatory Process*

*Western Coastal Managers Meeting  
January 28, 2009*

# Oregon History

- Oregon Solutions Reedsport Project
  - *Define Federal and State Regulatory Process*
  - *Identification of Issues*
- Oregon Statewide Policy and Planning Assessment
  - *Unclear or unfavorable regulatory structure*
  - *Lack of information about existing use and potential effects*
  - *Existing use of ocean*
- Oregon Wave Energy Trust--Facilitate the responsible development of wave energy
  - *Environmental Impacts*
  - *Regulatory Framework*
  - *Socio-economic Impacts*
  - *Research and Development*

# Industry Development Issues

*In order to take advantage of this renewable energy opportunity, the ocean energy industry must address key issues.*

## *Regulatory Framework*

The existing framework does not adequately meet the needs of early stage development in a way that effectively addresses stakeholder interests and potential effects.

## *Environmental Uncertainties*

Impacts remain largely unknown, and the ability to conduct studies is complicated by the lack of a defined methodology, a deficiency in baseline information, and limited financial resources.

## *Navigational Impacts*

In order to develop the ocean energy industry in a responsible manner, it is necessary to specify a development approach that addresses conflicting use issues and ensures marine safety.

## *Technological Uncertainties*

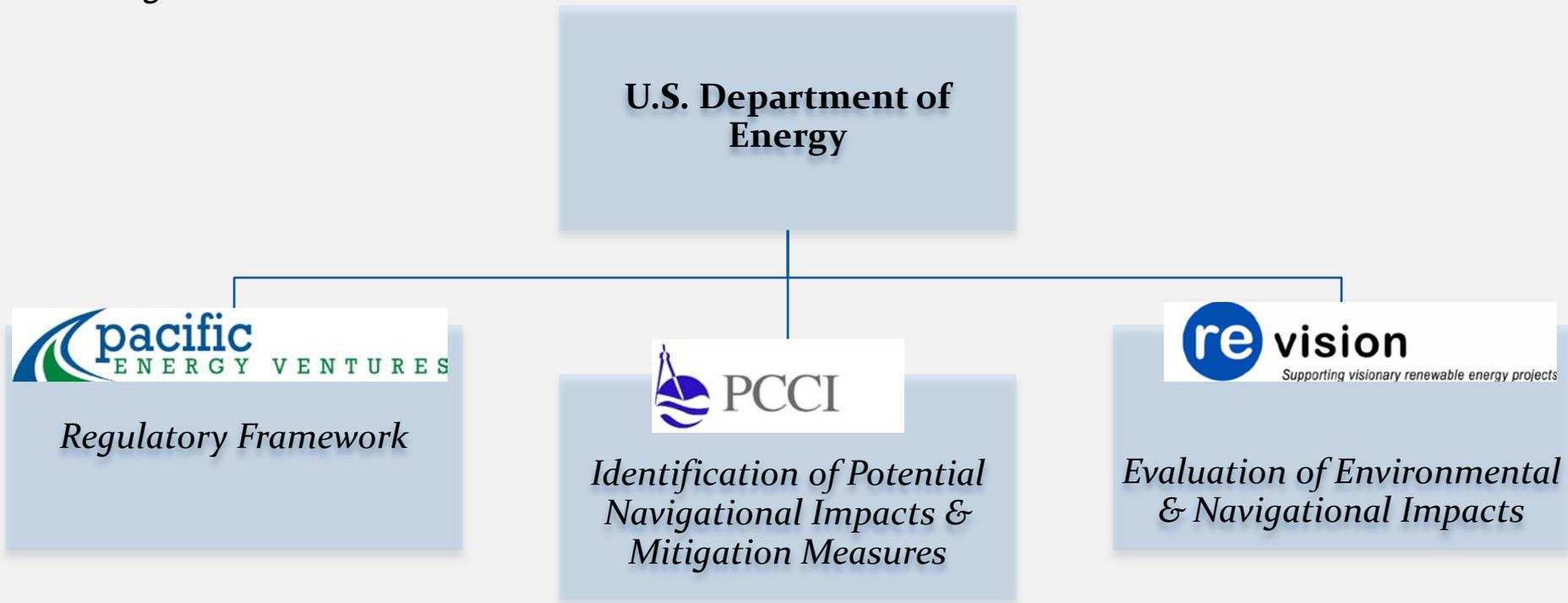
Currently, there are numerous technical approaches to extracting and producing power. The presence of multiple technologies further complicates the regulatory, environmental, and navigational issues.

# Efforts in Oregon

- Oregon Territorial Sea Plan Amendment Process
  - *Evaluation of Existing Use*
- Sea Floor Mapping
- Cumulative Effects Study
- OWET Stakeholder Process on Regulatory Process
  - *Preferred Practices*
  - *Policy Recommendations*
- DOE Market Acceleration Projects

# Project Integration

*Three teams- Pacific Energy Ventures, PCCI and re vision- are integrating their projects to optimize benefits to the ocean energy industry. All three teams are coordinating with government agencies involved in the siting process, requiring a high degree of collaboration among the teams.*



*Focusing specifically on issues associated with siting wave, tidal and other current projects, the teams' initial efforts are in areas of the U.S. that are already involved in these types of projects.*



## Regulatory Framework

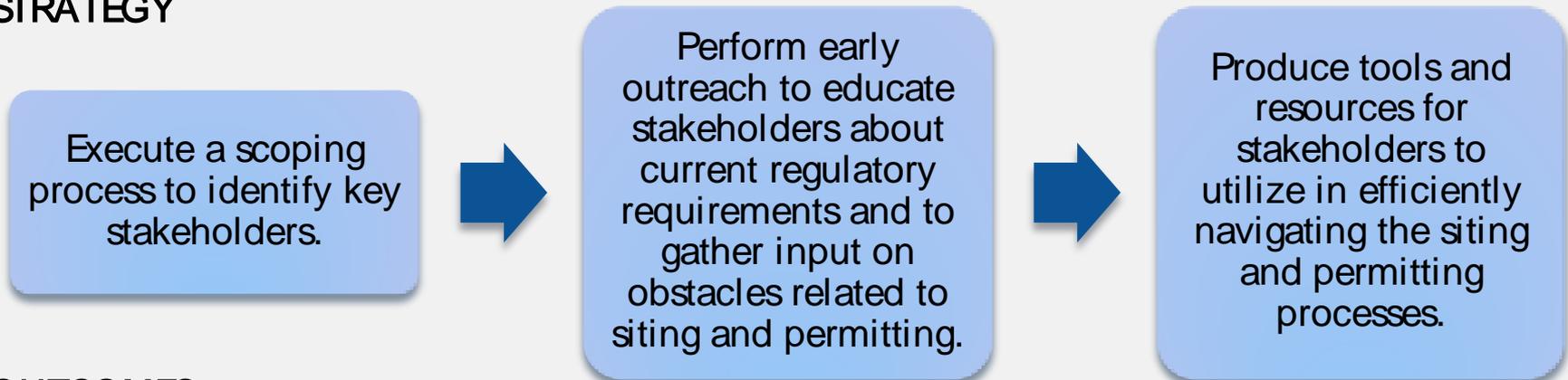
A key issue in market acceleration is the ocean energy industry's understanding of the regulatory framework associated with siting and permitting wave and tidal power projects.

### GOALS:

- Develop a broad understanding of the current regulatory framework among stakeholders in the ocean energy industry.
- Develop tools that 1) assist state and federal agencies and local (including tribal) governments in administering regulatory processes; and 2) support stakeholders in navigating the regulatory framework.
- Highlight an efficient path to project licensing that effectively accounts for environmental effects and stakeholder interests.

## Regulatory Framework

### STRATEGY



### OUTCOMES

- A handbook that explains current regulatory requirements and outlines the permitting processes.
- A planning and assessment framework that outlines the information requirements of all stages of project development, from initial licensing to decommissioning.
- A comprehensive directory of key stakeholders in the advanced water power sector.
- A process to engage with stakeholders to collaboratively evaluate and address issues, including further development of the planning and assessment framework.

# Contacts

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