

# New Technologies Spotlight: Wave Energy

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# Wave Energy Update

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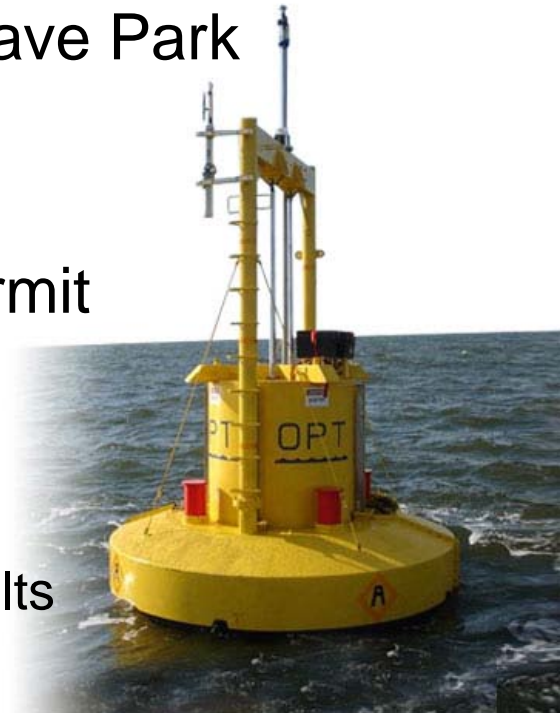
- What's new?
  - Recent application for wave project license
  - Other wave energy project updates
  - Marine spatial planning
- What do we need?
  - Flexibility in Marine Spatial Planning
  - Phased Development
  - Proportionate requirements
  - Streamlined OCS permitting





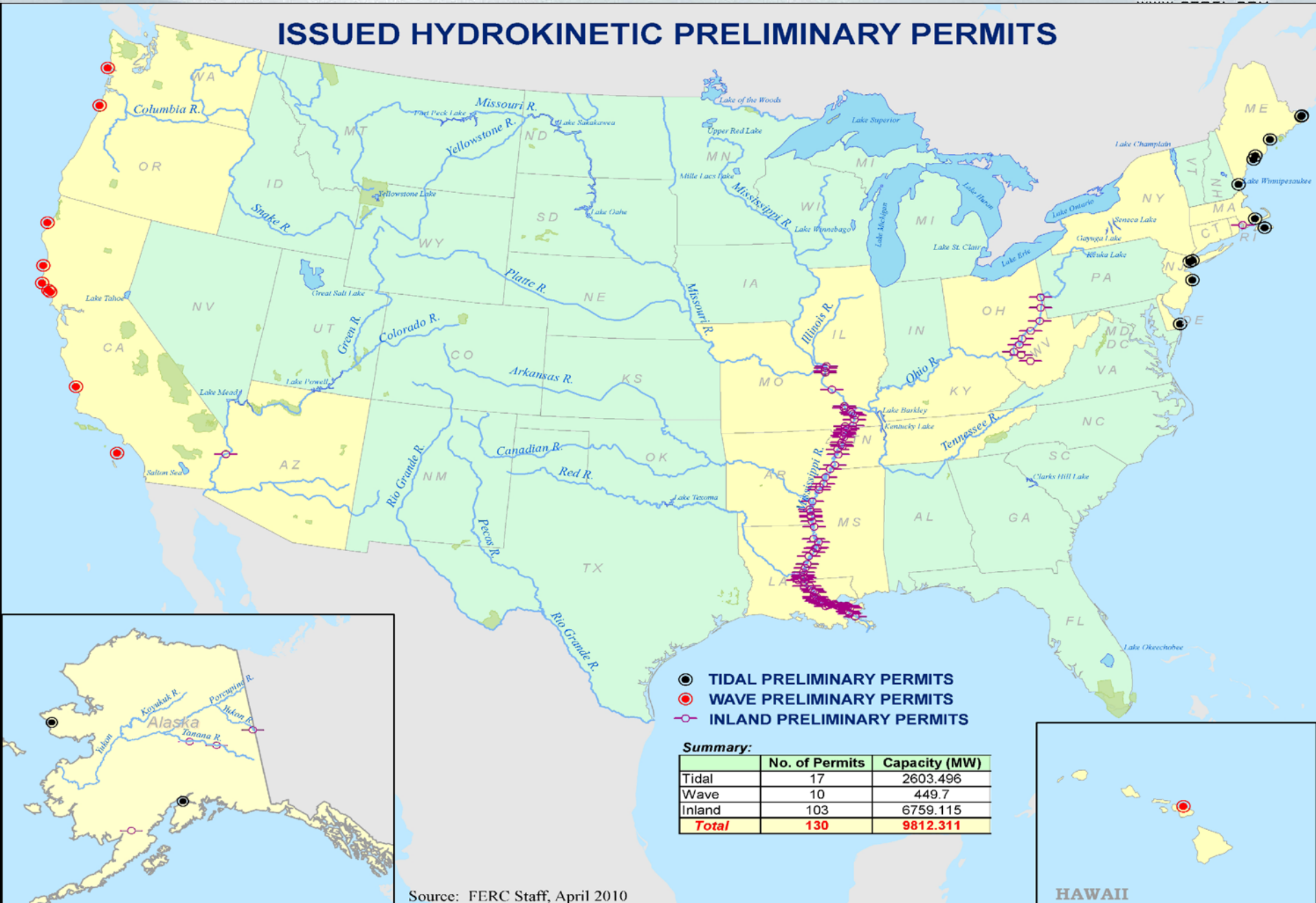
# License application filed (Jan. 2010)

- Ocean Power Technologies' Reedsport Wave Park
- Application for 10 buoys, 1.5 MW
- 35-year license
- Also submitted subsequent preliminary permit application for surrounding area
- Application based on settlement terms
  - Comprehensive studies
  - Process for reviewing, responding to study results
- Settlement in final review stages
- First buoy in construction at Oregon Iron Works





# ISSUED HYDROKINETIC PRELIMINARY PERMITS



# Ocean Policy and Planning

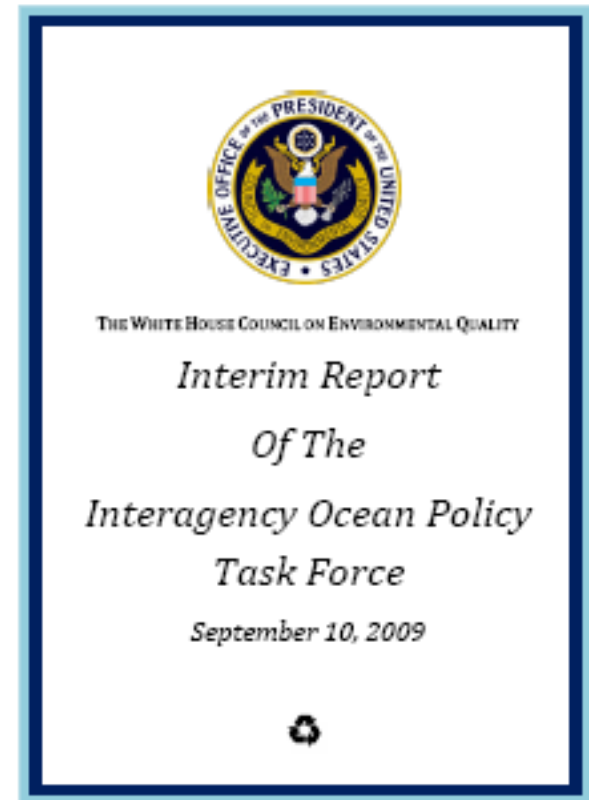
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- Interagency Ocean Policy Task Force est. June 2009
  - 24 senior policy-level officials; led by CEQ chair
- Charged with developing a national policy to:
  - protect ocean health
  - enhance sustainability of coastal economies
  - prioritize accountability and stewardship responsibilities
- Charged with developing framework for coastal and marine spatial planning (CMSP).

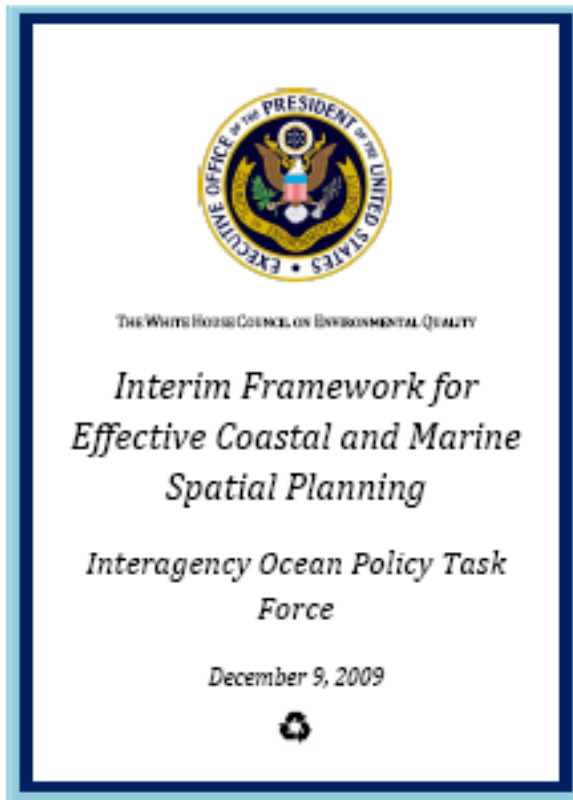
# National Policy

- (1) Protect, maintain and restore health and biological diversity of ecosystems using best available science and adaptive management
- (2) *Support sustainable, safe, secure and productive uses of oceans, coasts and Great Lakes*
- (3) Increase scientific understanding of ecosystems and relationships to human activities

Recommends establishing National Ocean Council (NOC) to set and implement national priorities and implementation objectives



# Coastal and Marine Spatial Planning



“CMSP is a comprehensive, adaptive, integrated, ecosystem-based, and transparent spatial planning process, based on sound science, for analyzing current and anticipated uses of ocean, coastal and Great Lakes areas. CMSP *identifies areas most suitable for various types or classes of activities* in order to reduce conflicts among uses, reduce environmental impacts, facilitate compatible uses, and preserve critical ecosystem services to meet economic, environmental, security and social objectives.”



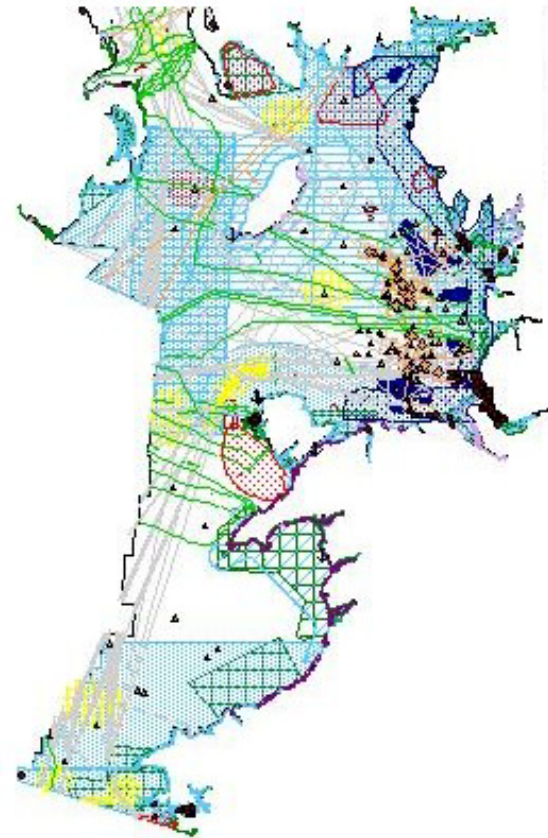
# What is it *really*?

- 9 regional plans
- Coast line to limits of the EEZ and Continental Shelf.
- Developed by regional planning bodies (Fed, State, tribal reps)
- Identify range of future uses, compare tradeoffs and cumulative effects as a basis for planning decisions
- Release draft plans for public comment; NOC confirms consistency with national policy; plans to adapt to changes
- Up to 8 years for all plans to be certified
- Does not supersede existing laws -- CMSP intended to inform choices under existing regulatory processes
- May not resolve all conflicts



# What do we need?

- In marine spatial planning:
  - Be flexible; no “zoning”
  - Focus on providing information to inform developer siting choices, agency decisions
  - Fund research to fill information gaps



Marine spatial planning in the Irish Sea

# What do we need?

- Allow and Encourage Phased Development
  - Licenses, regulatory approvals should cover incremental expansion
    - Avoid competition over expansion areas
    - Avoid lengthy amendment process for planned expansion
  - Resource laws do not require perfect information, and often look far into the future
  - New approvals, new NEPA may be required where new information changes analysis (but that's always the case)





# What do we need?

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- Study, monitoring and mitigation requirements should be proportionate to project's likely impact
  - Pilot or demonstration projects pose limited risks
  - Consider limited size, short project duration, ability to remove structures
  - Laws do not require unreasonable measures; use best professional judgment and sound reasoning.

# What do we need?

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- Streamline Outer Continental Shelf Permitting
  - 2009 MOU and Guidelines by MMS and FERC
  - Still no wave projects proposed on OCS
  - Need agency commitment to streamline (e.g. NEPA)
  - Need commitment to assist first wave projects to minimize process costs



NHA's OTNTC  
welcomes your input  
on challenges and  
methods for facilitating  
wave energy project  
development.

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