



# BOEM – NREL Offshore Renewable Energy Technology Training

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- Energy Policy Act of 2005
- National Programmatic EIS
- Overview of 30 CFR 585 Framework
- Coordination Among Federal Agencies
- Intergovernmental State Task Forces
- “Smart from the Start” Program
- Offshore Renewable Energy Activities Update



Gave the Secretary of the Interior the authority to regulate a broad spectrum of new activities:

- Production, transportation or transmission of energy from sources other than oil and gas – ***“Renewable Energy”***
- Use of currently or previously OCSLA-authorized facilities for energy-related purposes or for other authorized marine-related purposes – ***“Alternate Use”***



- Safety
- Environmental protection
- *Coordination with affected state, local and Tribal governments and relevant Federal agencies*
- Fair return
- Revenue sharing with States

## *“Programmatic EIS for Alternative Energy Development and Production and Alternate Use of Facilities on the Outer Continental Shelf” Environmental Impact Statement (EIS)*

- Analyzed the potential effects for establishment of the alternative energy and alternate use program by BOEM
- Public meetings held at 10 locations in May/June 2006
- Final EIS published in October 2007
- Resulted in a Record of Decision that provided initial policies and best management practices (BMPs) for the program
- As program matures, new policies and BMPs may be modified and developed

- President Obama announced publication of the final Renewable Energy Framework on Earth Day 2009
- 30 CFR Part 585 (“The Rule”)

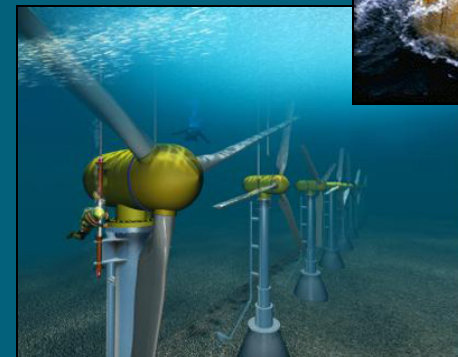


- Coordination (throughout)
  - Federal/state/local/tribal participants in a Task Force
- Lease and Grant Issuance (Subparts B and C)
  - Commercial and Limited Leases
  - Competitive and Noncompetitive Leasing
  - Rights-of-Way and Rights-of-Use and Easements
  - Research Activities
- Payments (Subpart E)
  - Bonding, Payments, Revenue Sharing
- Plans (Subpart F)
  - Site Assessment and Construction & Operations
  - General Activities
- Conduct of Approved Plan Activities (Subpart H)
  - Environmental and Safety Management and Inspections
- Decommissioning (Subpart I)



# Renewable Energy Activities

- **Wind** – commercial project proposals from Maine to Virginia; demonstration projects offshore Virginia and Oregon
- **Wave** – research project proposed off Oregon; potential research project off California; testing in Hawaii
- **Ocean Current** – resource data collection and technology testing off southeast Florida
- **Transmission** – multi-phased project proposed offshore mid-Atlantic; project proposed off Rhode Island; interest in Hawaii





**Outer Continental Shelf Lands Act (OCSLA)**  
**National Historic Coast & Geodetic Survey Act of 1947**  
**E.O. 13158 – Marine Protected Areas (MPAs)**  
**Coastal Barrier Resources Act**  
**Natural Gas Act (NGA)**  
**National Invasive Species Act**  
**National Methane Hydrate Research Act**  
**Federal Power Act (FPA)**  
**Marine Mammal Protection Act (MMPA)**  
**Antiquities Act**  
**Research Sanctuaries Act [Ocean Dumping]**  
**Magnuson**

**Ocean and Coastal Mapping and Hydrographic Survey Improvement Act**  
**Hydrographic Survey Improvement Act**  
**Deepwater Port Act**  
**Submerged Lands Act**  
**Coastal Zone Management Act (CZMA)**  
**National Weather Service Act**  
**Ocean Exploration and Research Act**

**Clean Water Act (CWA)**  
**National Marine Sanctuaries Act (NMSA)**  
**E.O. 13508 – Chesapeake Bay Protection and Restoration**  
**Clean Air Act (CAA)**  
**E.O. 12962 – Recreational Fisheries, and E.O. 13474 – Amendments to E.O. 12962**  
**Coastal Zone Management Act of 1990 (OPA90)**  
**National Environmental Policy Act (NEPA)**  
**(OTEC) Research, Development, and Demonstration (RD&D) Ocean Act**  
**Corals Act of 1899**  
**Marine Security Act**  
**E.O. 13178 – Northwestern Hawaiian Islands Coral Reef Ecosystem Reserve**

**National Wildlife Refuge System**  
**Defense Reserve**  
**(NDRF) and Ready Response Fleet (RRF)**  
**Pro**

BOEM is working with other Federal agencies to establish agreements that facilitate coordination on OCS renewable energy development:

- Memoranda of Understanding (MOU) with United States Fish and Wildlife Service (USFWS)
- MOU between the Department of Interior and the Department of Defense (DOD)
- MOU with the Federal Energy Regulatory Commission (FERC)
- MOU with the Department of Energy (DOE) Office of Energy Efficiency and Renewable Energy (EERE)
- Memoranda of Agreement (MOA) between BOEM and the U.S. Coast Guard (USCG)



- Affected State, local, Tribal governments and Federal agencies participate
  - Does not replace consultation under existing federal laws and regulations
- Forum to:
  - **Educate** each other about permitting and statutory responsibilities, and stakeholders' concerns
  - **Exchange data** about biological and physical resources, uses and priorities
  - **Continue dialogue** about renewable energy activities throughout the leasing process
- BOEM considers task force input in renewable energy leasing decisions

## Pacific States with task forces:

Oregon, Hawaii

## Atlantic States with task forces:

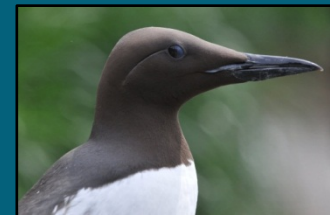
Maine, Massachusetts, Rhode Island, New York, New Jersey, Delaware, Maryland, Virginia, North Carolina, South Carolina

## New State request for task force:

Florida



- Fisheries
- Viewshed
- Port access
- Navigation and safety
- Archaeological and cultural sites
- Historic sites and places
- Protected species (marine mammals, birds, turtles)
- Migratory species
- Socioeconomic issues and environmental justice
- Tribal and Native Hawaiian concerns
- Sensitive offshore habitats (e.g., cold water corals and EFH)
- DOD and NASA offshore training and exercise areas



# “Smart from the Start” Program



- Announced November 23 2010 in Baltimore, Maryland
- Initiative includes:
  - Implementing a comprehensive, expedited leasing framework by:
    - Identifying Wind Energy Areas (WEAs)
    - Federal data call
    - Making information publicly available
  - Simplifying the approval process
  - Streamlining NEPA; start with an environmental assessment (EA) to evaluate potential impacts from renewable energy lease issuance
- Parallel but separate track to process applications to build offshore transmission capacity

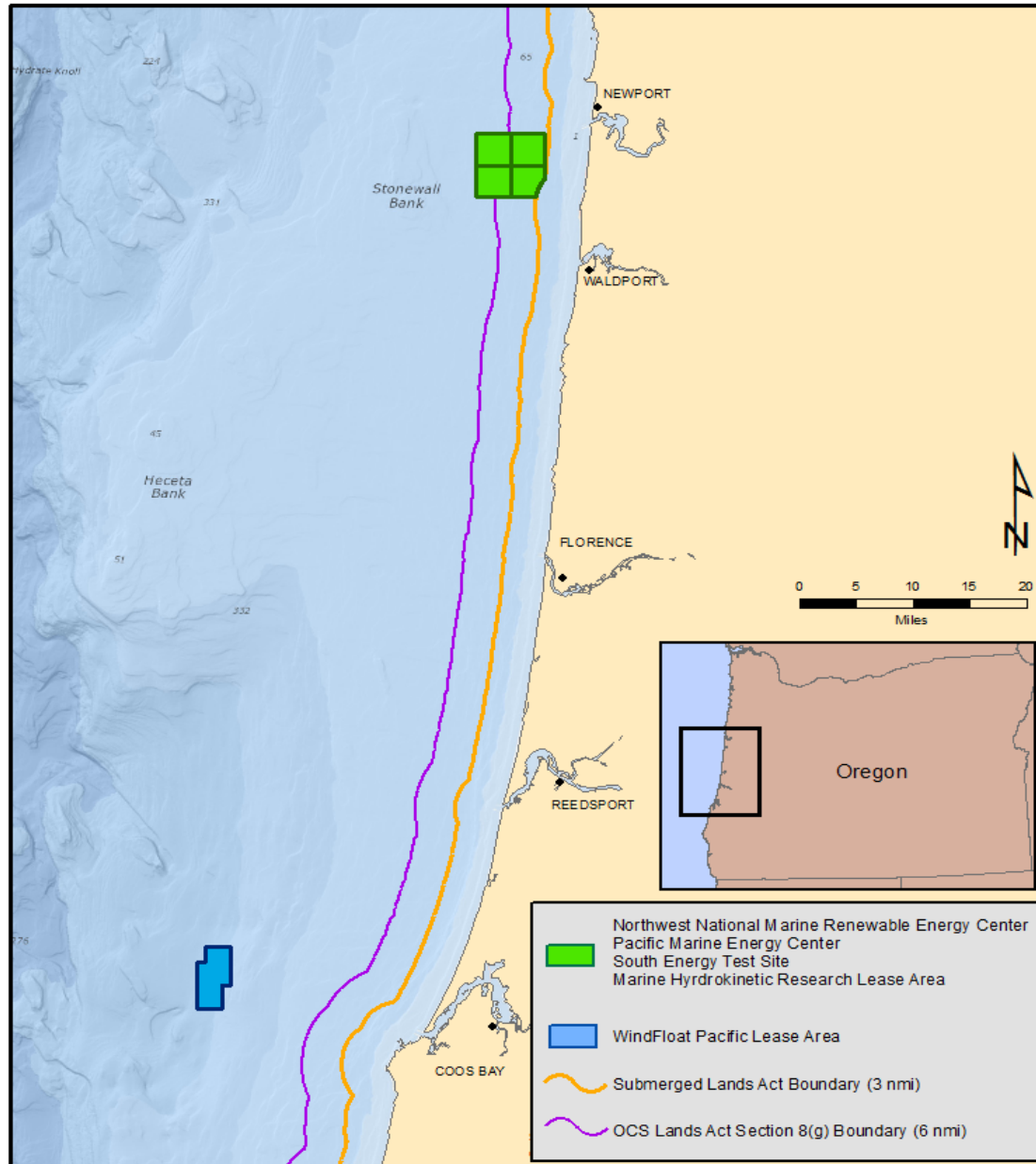
# Offshore Activities Update

## PACIFIC:

- Interest in wind energy leases offshore California, Oregon and Hawaii
- Potential inter-island transmission cable project in Hawaii
- Lease request for floating offshore wind project on OCS offshore southern Oregon; funding by DOE as an Offshore Wind Technology Demonstration Project
- Research lease request by the Northwest National Marine Renewable Energy Center to build research test facility for MHK devices on OCS offshore Oregon

## ATLANTIC:

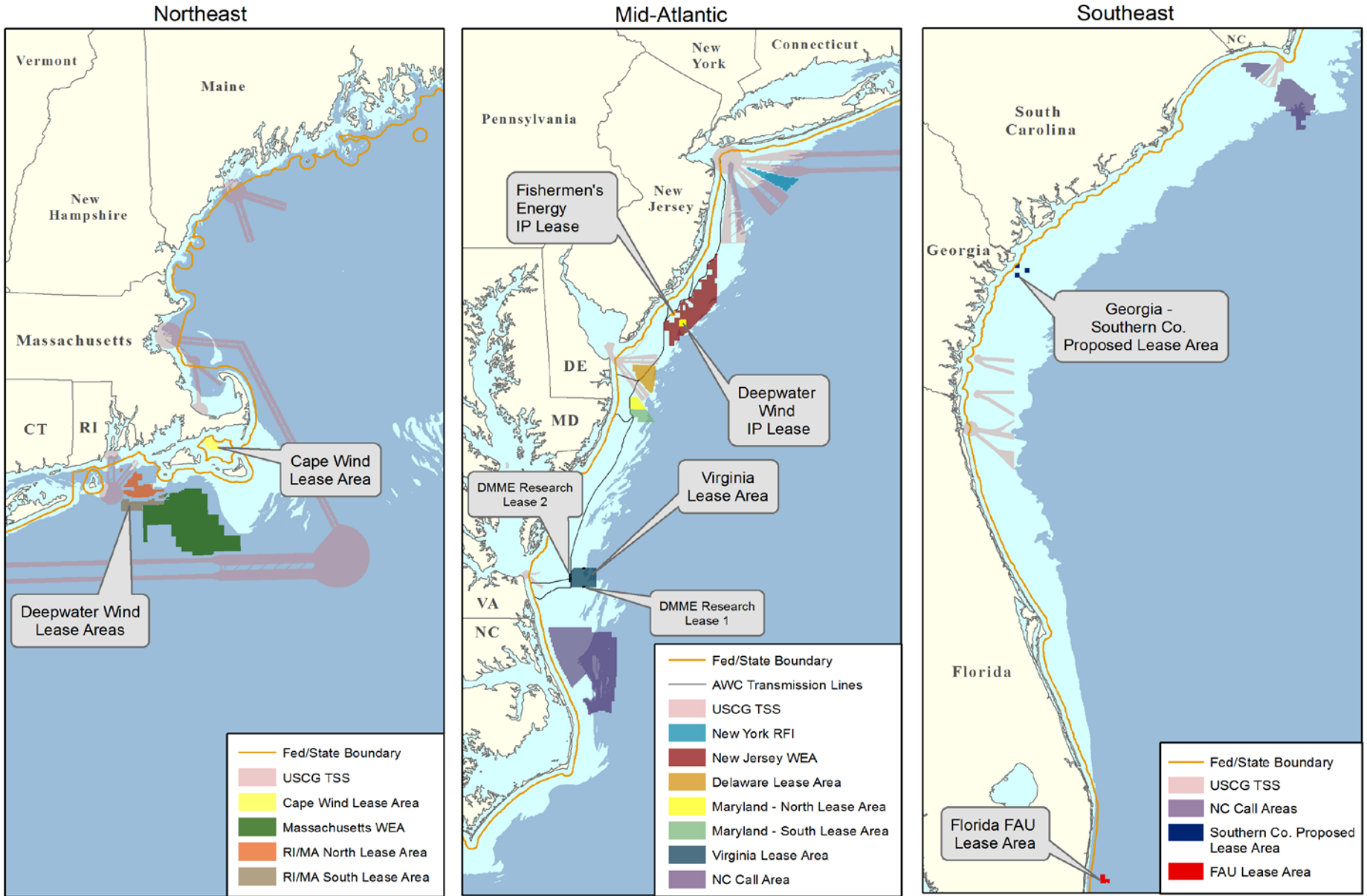
- Lease auctions complete for commercial leases offshore Rhode Island and Virginia, and auctions planned in 2014-2015 for Massachusetts, Maryland, and New Jersey
- Processing two research leases
- Identified six Wind Energy Areas (WEAs) offshore North and Mid-Atlantic
- Workshops conducted for development of mitigation measures for renewable energy projects with commercial fishermen
- Issued four OCS commercial wind energy leases



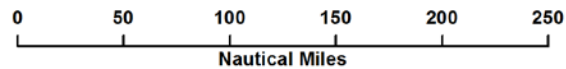
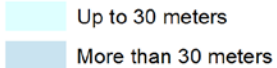
Proposed Oregon Outer Continental Shelf Renewable Energy Projects



# Atlantic OCS Renewable Energy - Massachusetts to Florida



## Bathymetry



- Energy Policy Act of 2005
- National Programmatic EIS
- Overview of 30 CFR 585 Framework
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Whether OCS wind, MHK, or transmission, BOEM will continue to:

- Apply the renewable energy regulatory framework in conjunction with interagency-led planning activities
- Focus on **multiple uses**
- Work with State, Federal, Tribal and other interested partners

**BOEM's Goal: Achieve efficient, safe and environmentally sound ocean energy development**



# Thank You

