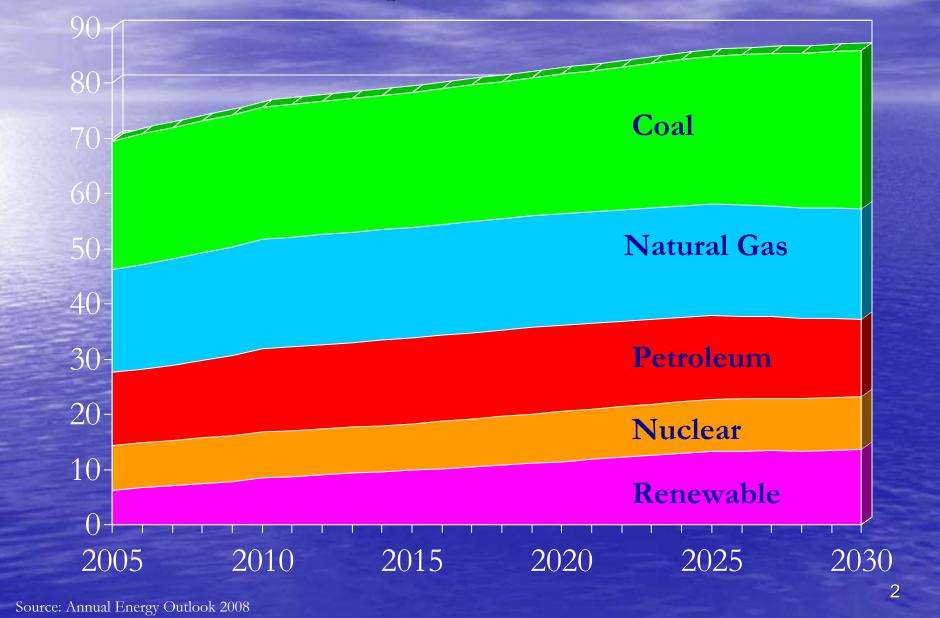
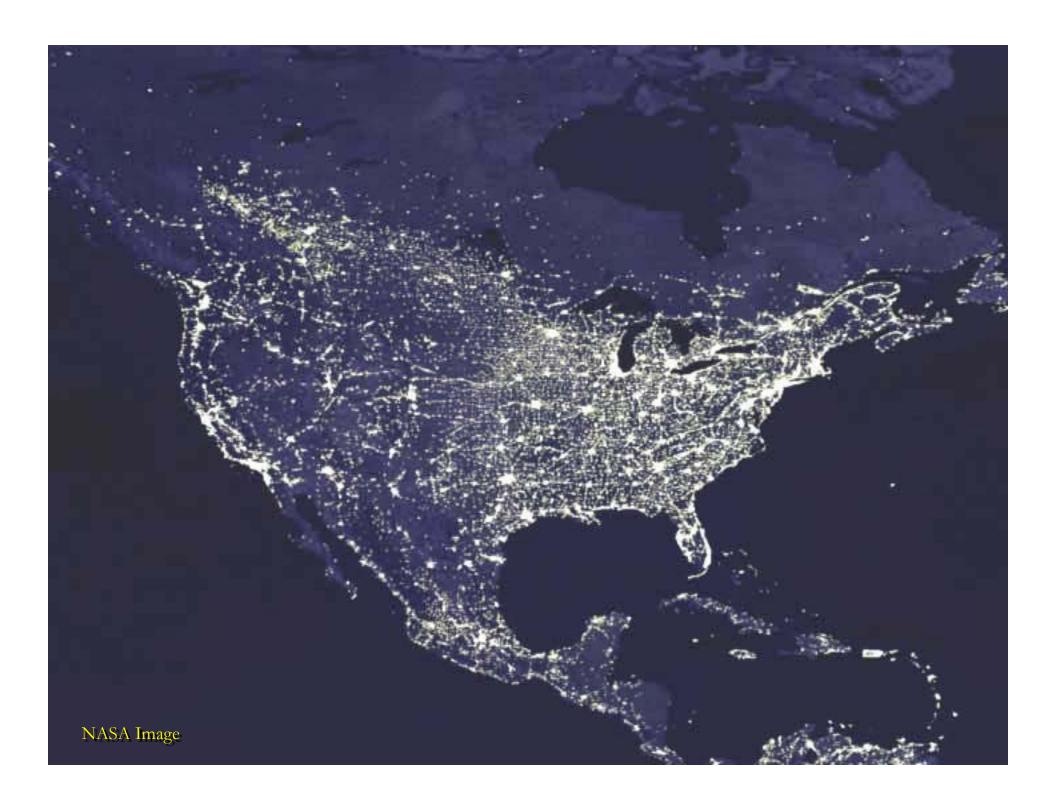


## U.S. Primary Energy Production by Fuel, 2005-2030 (quadrillion Btu)





## Energy Policy Act of 2005 (EPAct)

- Signed into law on August 8, 2005
- Grants the Department of the Interior (DOI)
   new authority to regulate Federal offshore
   renewable energy and alternate uses of the
   OCS
- Contains 23 different provisions related to offshore resource management

### Section 388 of EPAct

Create a new regulatory process

 Develop consultation and coordination process

Create comprehensive mapping tool

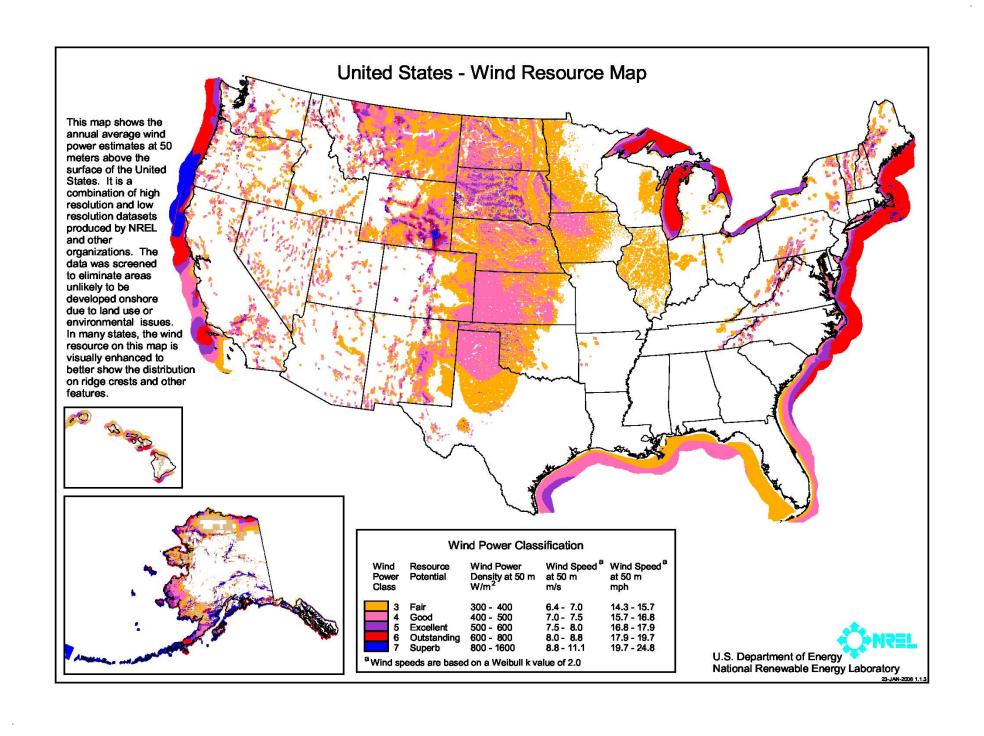


#### Section 388 of EPAct

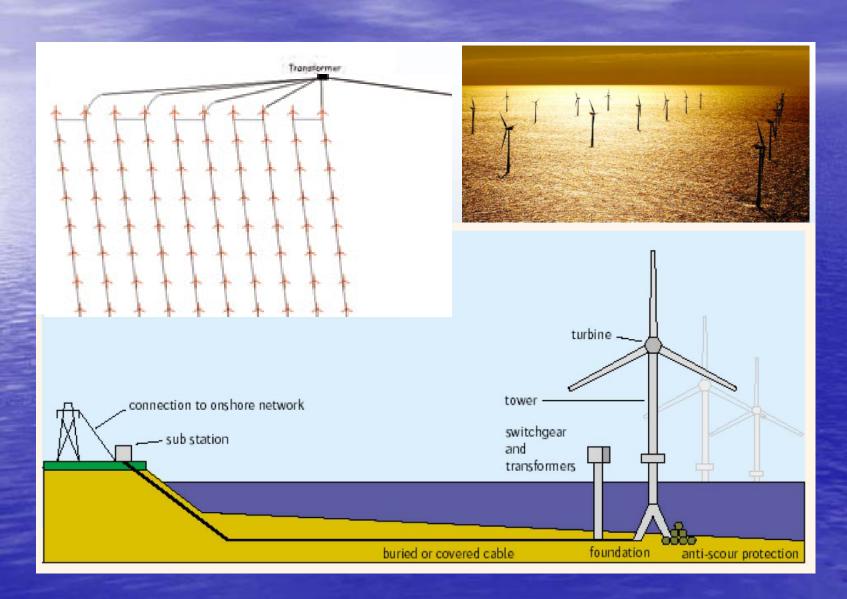
- Authorizes development of a regulatory regime that
  - Ensures consultation with States and other stakeholders
  - Grants leases, easement, and/or right-of ways
  - Enforces regulatory compliance
  - Requires financial surety
  - Provides fair return to the Nation

# Section 388 of EPAct Does Not:

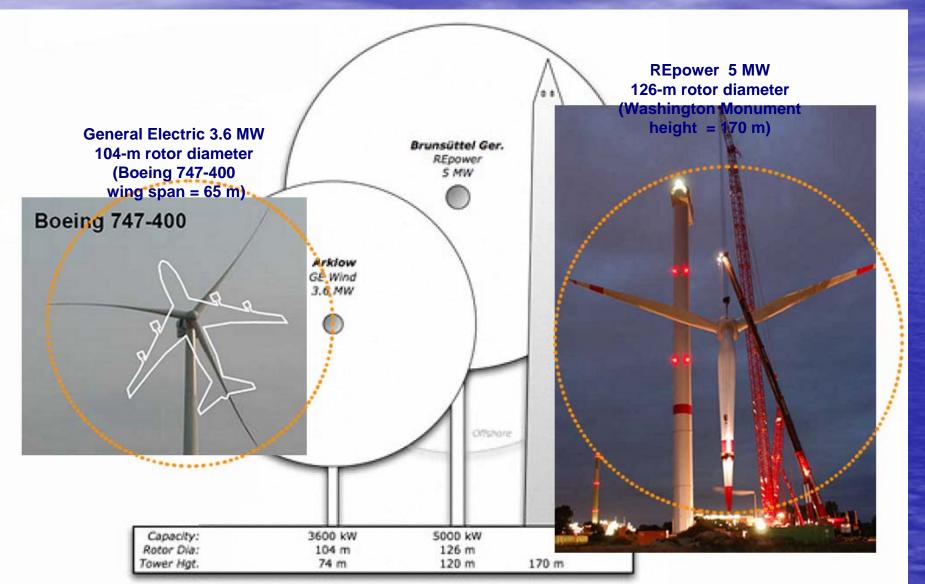
- Supersede or modify existing Federal authority
- Authorize any oil and gas activities in moratoria areas (Congressional moratoria and administrative withdrawals remain in effect)
- Apply to areas designated as National Marine Sanctuaries, National Parks, National Wildlife Refuges, or any National Monuments



## Typical Offshore Wind Farm Layout



#### Wind Turbine Blade Sizes



## Monopile Foundations Driven into Seabed and Transition Pieces Grouted on Top







## Horns Rev 2-MW Turbines Installed Using Self-Propelled *A2 SEA* Vessels









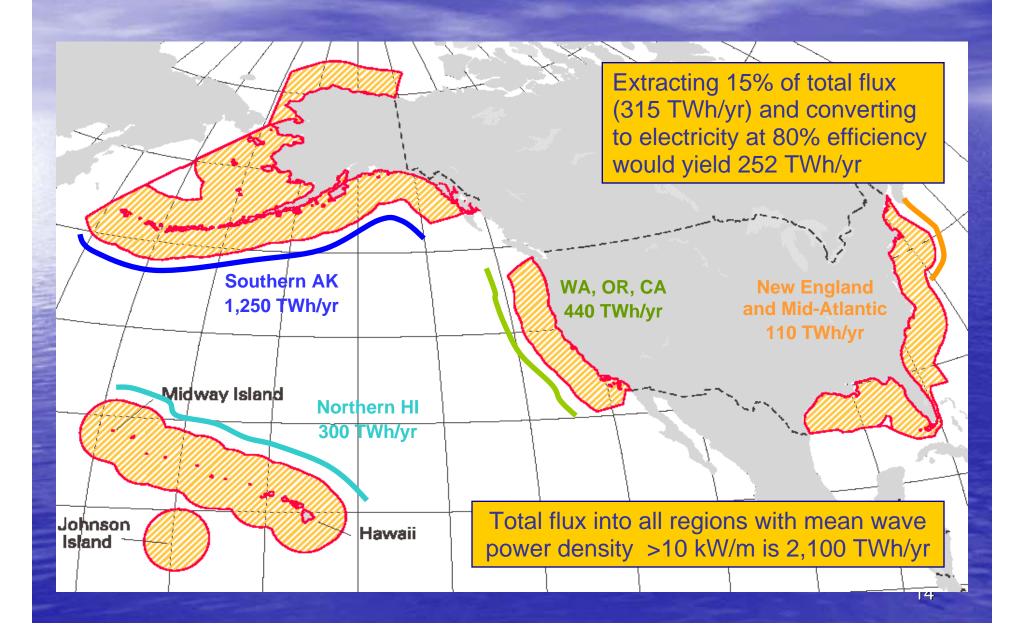
# North Hoyle 2-MW Turbines Installed Using Towed *Seacore* Jack-Up Rigs







### U.S. Offshore Wave Energy Resources



#### Wave Energy Devices Highly Diverse

•Fixed Oscillating Water Column **Terminator** (Oceanlinx )

Floating Attenuator (Pelamis)



Floating Overtopping

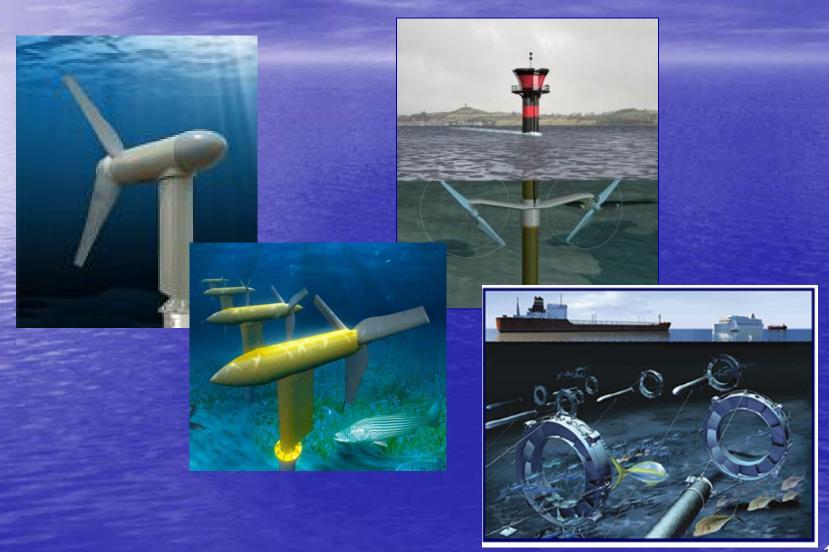
Terminator (Wave Dragon)



Floating
Point
Absorber
(AquaBuOY)







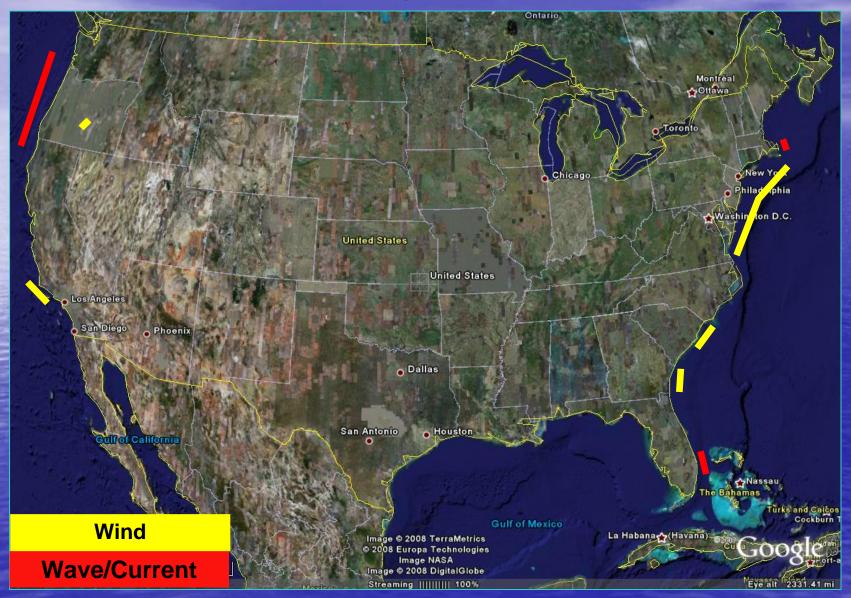
# Applications for Renewable Energy Leases and Grants . . . on the OCS

- July 20, 2009 (FR, Vol. 74, No. 137)
- Herndon, VA (NC through ME; MS-4090)
- New Orleans, LA (TX, LA, MS, AL, FL, GA, SC; Lease Apps . . . MS-5400; RUES . . . MS-5231; ROWS . . . MS-5232)
- Camarillo, CA (CA, OR, WA, HA; MS-7000)
- Anchorage, AK (AK; MS-8200)

## MMS' "Interim" Renewable Energy Policy

- Interim Policy aimed at "jump starting" MMS's offshore renewable energy program
- November 6, 2007--Federal Register announced an Interim Policy for authorization of the installation of offshore data collection and technology testing facilities in Federal waters
- 40 nominations received (West and East coasts)
- April 2008--MMS identified 16 proposed lease areas for priority consideration

## Interim Policy Nominations



# OCS Renewable Energy Regulatory Framework Milestones

- ✓ Published ANPR (Dec 2005)
- Convened Stakeholders meetings (Oct 2006 & Jan 2007)
- Released final Programmatic EIS (Nov 2007)
- ✓ Issued Record of Decision (Jan 2008)
- Published Proposed Rule (July 2008)
- ✓ Held proposed rule public workshops (Aug 2008)
- Closed rule comment period (July Sep 2008)
- ✓ Sent final Rule to OMB (Nov 2008)
- Published final Rule (April 2009)
- ✓ Held final Rule workshops (June 2009)

## Subpart by Subpart Summary

A	General provisions, including authorities, purposes, responsibilities, qualifications, and definitions
B	Leases
C	Rights-of Way and Rights-of-Use and Easement Grants
D	Administrative provisions, including designations, assignments, suspensions, etc
E	Payments and Financial Assurance
F	Plans and information requirements, including SAPs, COPs, and GAPs
G	Facility Design, Fabrication, and Installations
Н	Environmental and Safety Management, including inspections for activities
I	Decommissioning
J	Alternate use of existing OCS facilities

# Two Types of Leases/ Two Processes

- Commercial Leases for full development and power generation
- Limited Leases for resource assessment and technology testing
- Competitive and noncompetitive processes



### Competitive Lease Terms

# Commercial Leases for full development and power generation

- 6-month preliminary term
- 5-year site assessment term
- 25-year operations term

## Limited Leases for resource assessment and technology testing

- 6-month preliminary term
- 5-year operations term

## Noncompetitive Lease Terms



#### Commercial Leases for full development and power generation

- 5-year site assessment term
- 25-year operations term

**Limited Leases for** resource assessment and technology testing5-year operations term

### Financial Assurance

#### Commercial Leases

- Require a lease-specific \$100,000 bond before lease issuance
- May require additional bond before SAP approval
- Require COP bond based on project complexity, projected payments, and decommissioning costs before COP approval

#### Financial Assurance

### Limited Leases, ROWs, RUEs

- Require a \$300,000 lease or grant-specific bond
- May increase based on projected payments, and abandonment & cleanup costs

### Payments

#### Bonus Bids

 Minimum bid established in Final Sale Notice for leases or Auction Notice for grants

### Acquisition Fees

- \$0.25/acre for leases issued noncompetitively
- None for grants

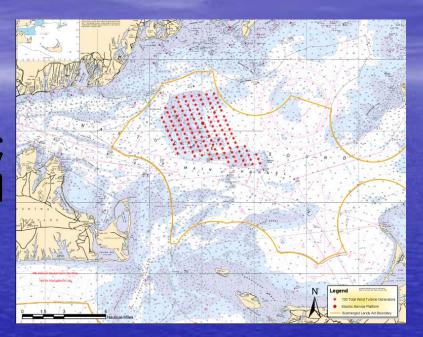
#### Rentals

- \$3.00/acre/year for leases
- \$5.00/acre/year for project easements, ROWs and RUEs

## Manage Existing Proposals

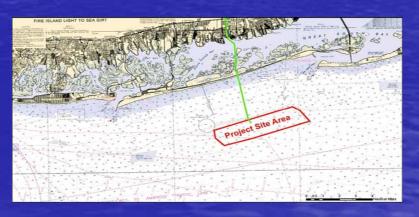
#### Cape Wind

about 4.7 miles offshore in Nantucket Sound, MA;
 130 wind turbines; could produce up to 454 megawatts



#### LIOWP

4 miles off the south shore of Long Island; 40 wind turbines; produce 140 megawatts of electricity



### MMS/FERC MOU

- Secretary Salazar & Chairman Wellinghoff signed MOU on April 9, 2009
- Entity interested in operating a hydrokinetic project on the OCS must first obtain a lease from MMS
- FERC may issue a license or exemption after MMS issues a lease
- Applicants should apprise MMS & FERC of interest in OCS hydrokinetic development at the start
- Shared goal is to create an efficient review process for OCS hydrokinetics







By Phone:

703-787-1300

