

Bureau of Ocean Energy Management

Outer Continental Shelf Programs







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Mandates

"(T)he outer Continental Shelf is a **vital national resource reserve held by the Federal Government for the public**, which should be made available for **expeditious and orderly development**, subject to **environmental safeguards**, in a manner which is consistent with the maintenance of competition and other national needs"

Outer Continental Shelf Lands Act (OCSLA)

Sec 3(3)

"...may grant a lease [for] energy from sources other than oil and gas...in a manner that provides for safety and protection of the environment."

Energy Policy Act of 2005 Sec. 388





Overview: Resource Programs

Oil and Gas Program

BOEM manages the nation's offshore resources to ensure that exploration and development activities are conducted in a safe and environmentally sound manner.

Renewables Program

BOEM is responsible for offshore renewable energy development in Federal waters and anticipates future development on the OCS from three general sources: offshore wind energy, ocean wave energy, and current wave energy.

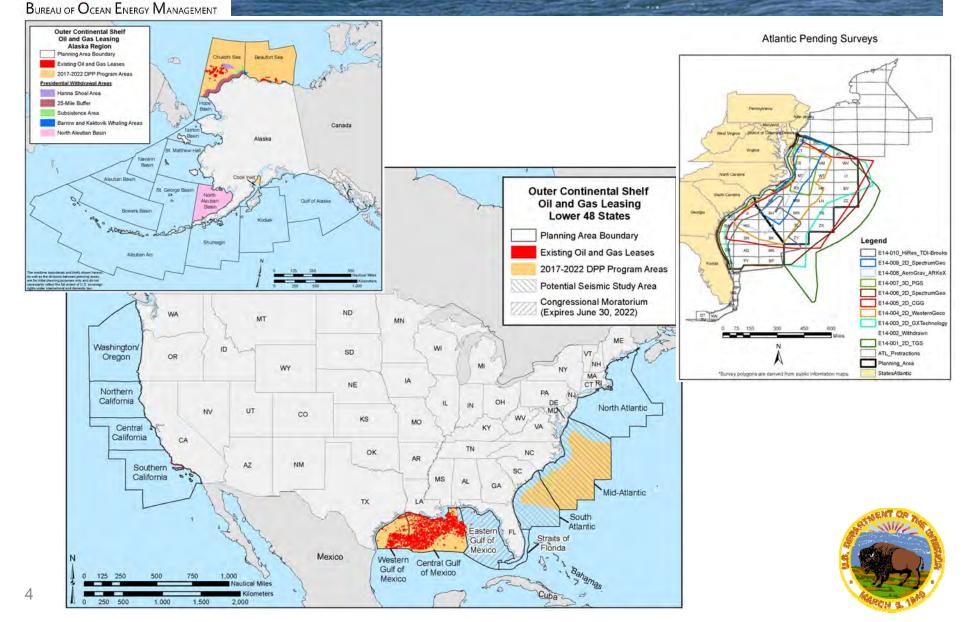
Marine Minerals Program

BOEM is responsible for managing non-energy minerals (primarily sand and gravel) on the OCS. Marine minerals are used primarily in coastal restoration projects, including beach nourishment and coastal habitat restoration, with increased attention to building resilience to deal with future storms and rising sea levels.





Outer Continental Shelf Planning Areas





Oil and Gas Program: Introduction

Responsibilities include:

- Identifying and calculating appropriate boundaries and legal descriptions;
- Identifying, inventorying, and assessing the Nation's offshore energy and mineral endowment;
- Developing a transparent, systematic, and comprehensive schedule for OCS oil and gas resource offerings; and
- Developing appropriate financial terms to ensure the Nation receives fair market value for its OCS resources.





5-Year Oil and Gas Leasing Program

Multi-Year/Multi-Phase Process

- Collaborative effort among Government, industry, tribal, and public stakeholders
- Multiple steps, decision points, and opportunities for public input during each phase



The following eight factors are considered in determining the timing and location of leasing:

- Geographical, geological, and ecological characteristics
- Equitable sharing of developmental benefits and environmental risks
- Location with respect to regional and national energy markets and needs
- Location with respect to other uses of the sea and seabed
- Interest of potential oil and gas producers
- Laws, goals, and policies of affected states
- Environmental sensitivity and marine productivity
- Environmental and predictive information



Oil and Gas Program: Resource Evaluation

OCS Report

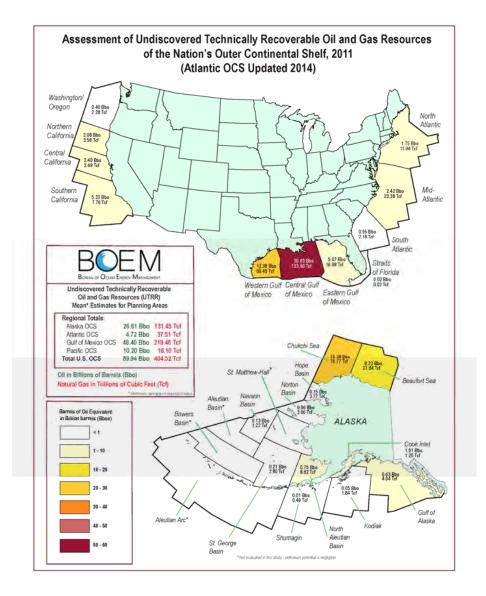
Outer Continental Shelf

Estimated Oil and Gas Reserves Gulf of Mexico OCS Region December 31, 2011



BOEM

U.S. Department of the Interior
Bureau of Ocean Energy Management
Gulf of Mexico OCS Region







Renewable Energy Programs

Office of Renewable Energy Programs (OREP)

The mission of the Bureau of Ocean Energy Management's Office of Renewable Energy Programs (OREP) is to regulate environmentallyresponsible offshore renewable energy development activities.

- Offshore Wind Farms
- Hydrokinetics Oregon & Florida
- Determining and evaluating the effects on natural, historical, and human resources





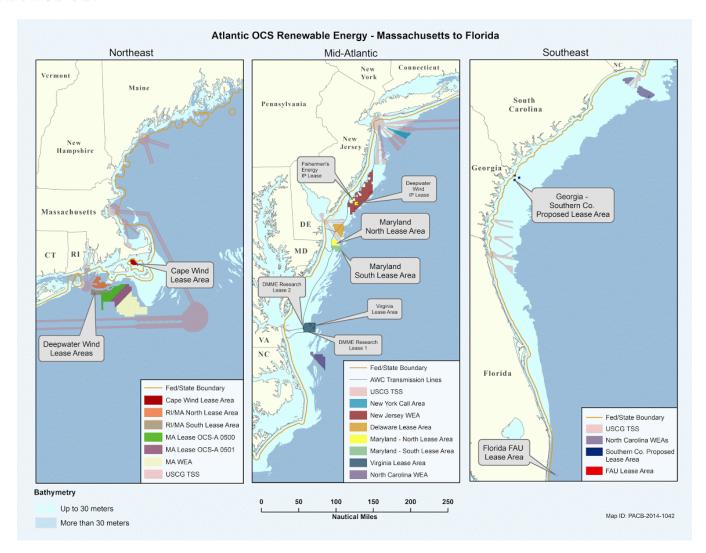








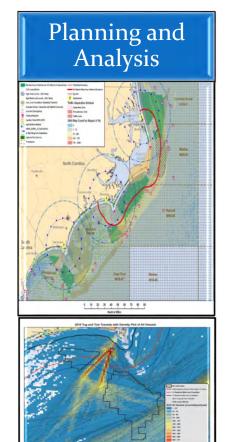
Renewables Program: Status of State Activities





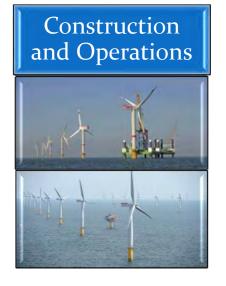


Renewables Program: Wind Energy Development Process





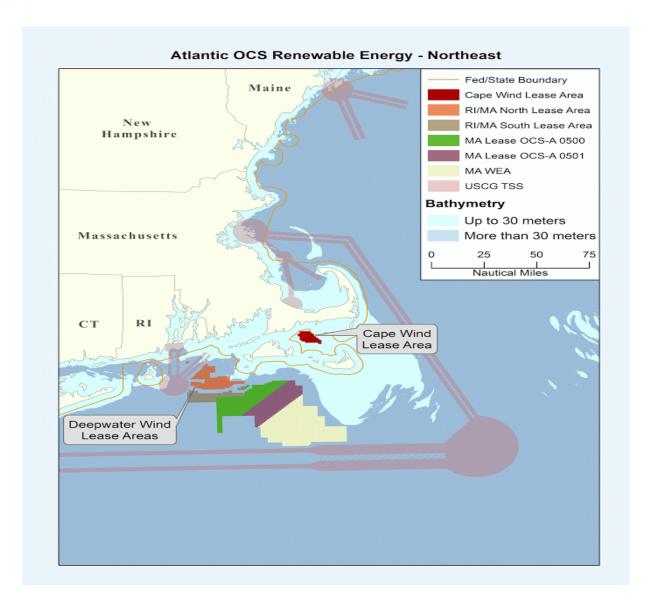








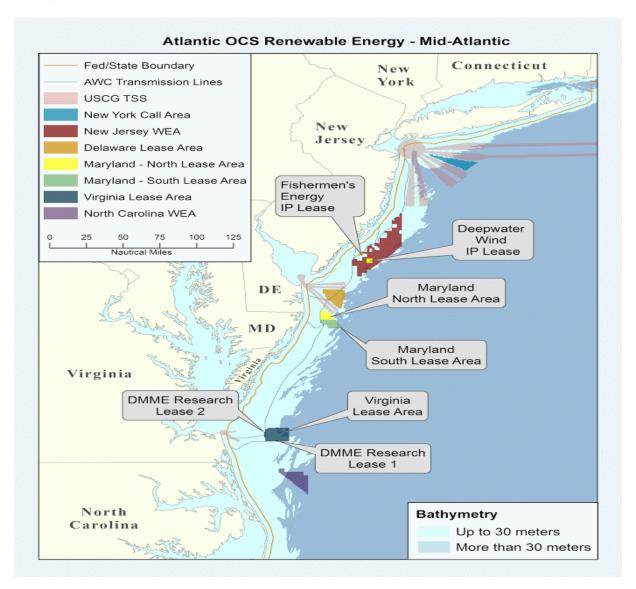
Renewables Program: Status of State Activities Northeast







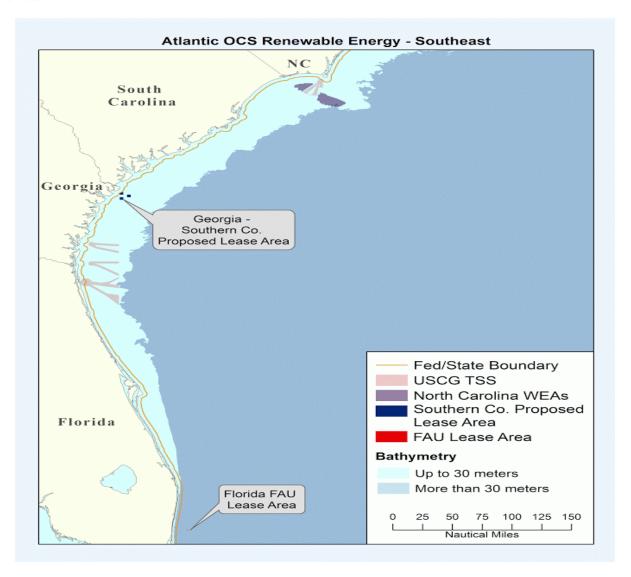
Renewables Program: Status of State Activities Mid-Atlantic







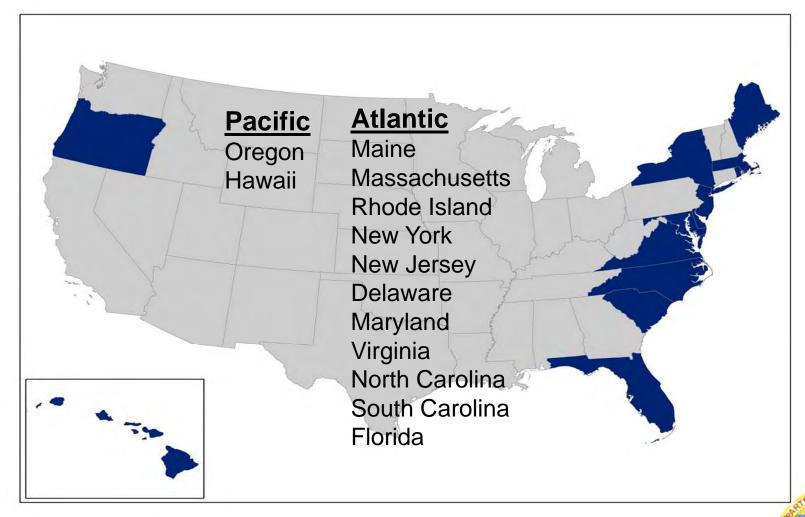
Renewables Program: Status of State Activities Southeast







Renewables Program: State Task Forces





Marine Minerals Program: North Carolina Projects

Dare County

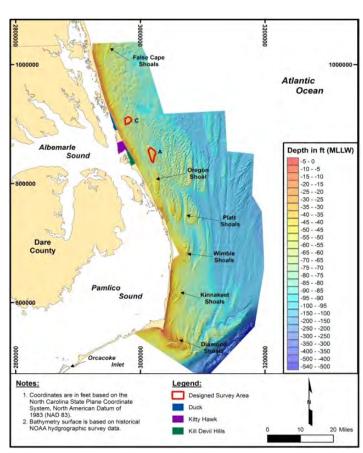
Duck, Kitty Hawk, Kill Devil Hills

Carteret County

- Post-Irene Renourishment Project (2013)
- Bogue Banks Storm Damage Reduction Project
- Bogue Banks Master Beach Renourishment Plan

Pender and Onslow Counties

- Surf City and North Topsail Beach
- West Onslow Beach and New River Inlet
- Brunswick County Beaches
- Atlantic Sand Inventory Project







Environmental Protection Program

- Air Quality
- Water Quality
- Marine Mammals
- Sea Turtles
- Marine and Coastal Birds
- Bats
- Seafloor Habitats





- Physical Oceanography
- Coastal Habitats
- Socioeconomics
- Cultural Resources
- Fisheries
- Multiple Use Conflicts



Environmental Protection Program

Office of Environmental Programs

The OCS Lands Act requires BOEM, in coordination with (BSEE), to provide effective environmental safeguards for Outer Continental Shelf (OCS) exploration and production of oil and natural gas; renewable energy sources such as offshore wind, wave and currents; and non-energy minerals including sand and gravel.

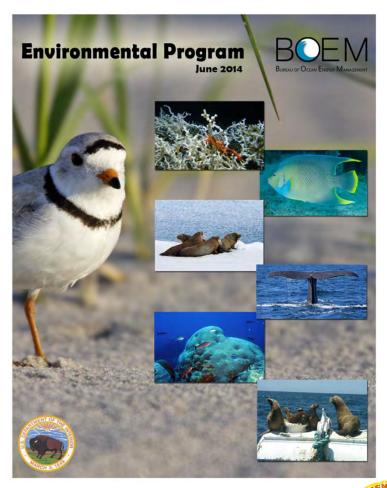
The Office of Environmental Programs is comprised of two Programs:

Environmental Assessment

- NEPA
- Protected Species

• Environmental Studies

- Environmental Studies Program Information System (ESPIS)
- Oil Spill Modeling







NEPA

- In 1969, the Congress of the United States of America passed the National Environmental Policy Act (NEPA)
- In 1978, the Council of Environmental Quality (CEQ) issued guidelines for the preparation of environmental impact statement (EIS's) under Executive Order 11514

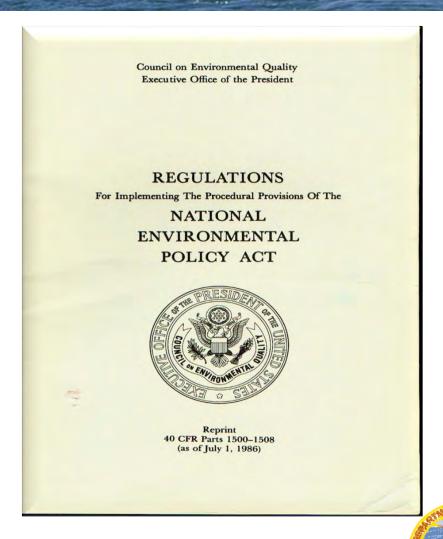




National Environmental Policy Act

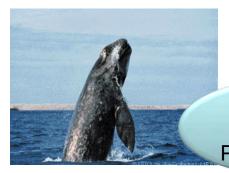
Better Decisions Through:

- Public Disclosure
- Alternatives
- Mitigation
- Integrated Analyses
- Public Involvement





Environmental Regulations and Orders



Marine Mammal **Protection Act**

Federal Water **Pollution Control Act**

National Historic Preservation Act



Migratory Bird **Treaty Act**

NEPA PROCESS

Clean Air Act

Coastal Zone Management Act

E.O. 12898: Environmental **Justice**

Endangered **Species Act**

Magnuson-Stevens Act







Inter-Agency Coordination with BOEM in OCS Activities

















- **U.S. Coast Guard --** oil-spill response, port and vessel security, and inspection
- Environmental Protection Agency -- air and water quality
- Fish and Wildlife Service -- marine mammals/endangered species
- National Marine Fisheries Service -- fish and essential fish habitat
- Army Corps of Engineers -- sand and gravel program
- Federal Aviation Administration -- radar interference from wind turbines
- U.S. Geological Survey -- resource evaluation
- NOAA Fisheries -- marine mammals/endangered species
- **Department of Commerce --** coastal program
- Department of Defense -- military installations and wetlands





Environmental Studies' Disciplines











- Archaeological Resource Protection Studies
- Biological Studies
- Fates and Effects Studies
- Meteorology and Air Quality Studies
- Physical Species Studies
- Protected Species Studies
- Social Sciences and Economic Studies





BOEM Environmental Studies Program

- Competitive Contracted Studies
- Cooperative Agreements
- Cooperative Agreements through Coastal Marine Institutes (CMI)



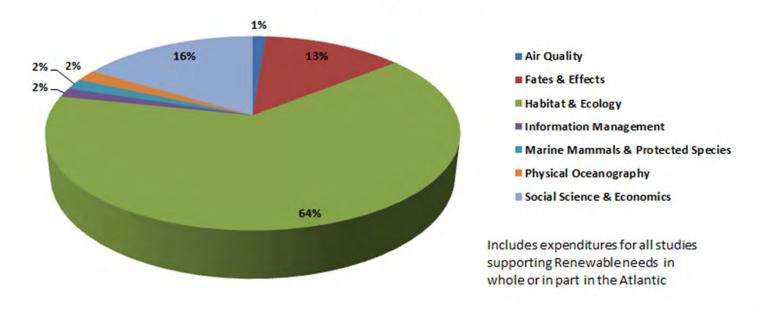




Environmental Studies Program: Renewable Energy Program

~ \$26M with the following distribution:

Atlantic Coast Renewable Funds by Discipline FY 2010-2014 Cumulative







Environmental Studies Program

Linkage Between Environmental Assessment and Environmental Sciences



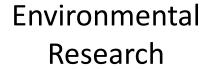
Identification of Information Gaps & Issues



Environmental Assessment



Environmental Information









Impact Producing Factors



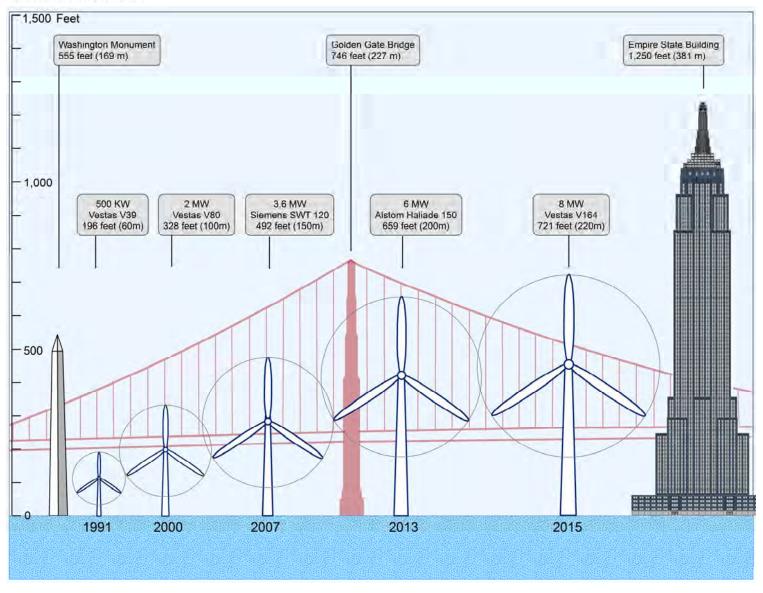


- Air emissions
- Bottom disturbance
- Discharges and oil spills
- Lighting
- Noise
- Vessel traffic
- Visual and aesthetic interference





Renewables Program: Turbine Size Comparison







Renewables Program: Turbine Size Comparison



Oak Island Simulation, Late Afternoon, Vestas V164-8.0 MW, 10 Nautical Miles





Public Involvement





Scoping

- Notice of Intent
- Public Comments/Scoping Meetings
- Develop potential issues, alternatives, and impacts that will be addressed in a NEPA analysis

Public Comment Periods

- Notice of Intent
- Draft EIS
- Comments addressed in EIS
- Notify Public of Final Decision



5-Year Program Process Draft Proposed Program

OCSLA

Request For Information

45-Day Comment Period Draft Proposed Program 6o-Day Comment Period on Program

Proposed Program 90-Day Comment Period on Program

Proposed Final Program 6o-Day Period for Congress

Final 5-Year Program Announced

NEPA

Notice of Intent for PEIS 6o-Day Scoping Period

Draft PEIS

45-Day Comment Period

Final PEIS

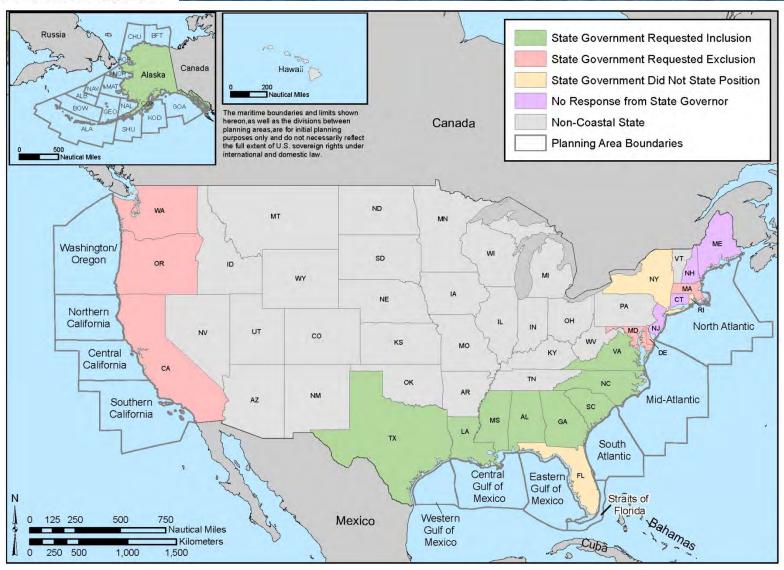
30-Day Waiting Period

Record of Decision





2017-2022 Oil and Gas Leasing Draft Proposed Program (DPP) Coastal State Comments



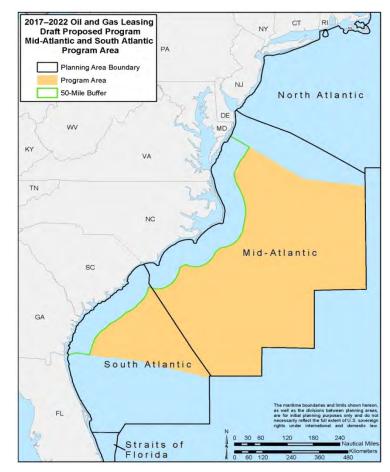




Current Activities: 2017-2022 Outer Continental Shelf Oil and Gas Leasing Draft Proposed Program

2017-2022 Proposed Atlantic Sale

- One sale in 2021 in a portion of the combined Mid-Atlantic and South Atlantic Planning Areas, offshore the Commonwealth of Virginia and the States of North Carolina, South Carolina, and Georgia, with a 50-statute-mile, noleasing buffer from the coastline
- No sales in the North Atlantic or Straits of Florida Planning Areas







OCS Oil and Gas Five Year Program: Next Steps

Development of a Five Year Program



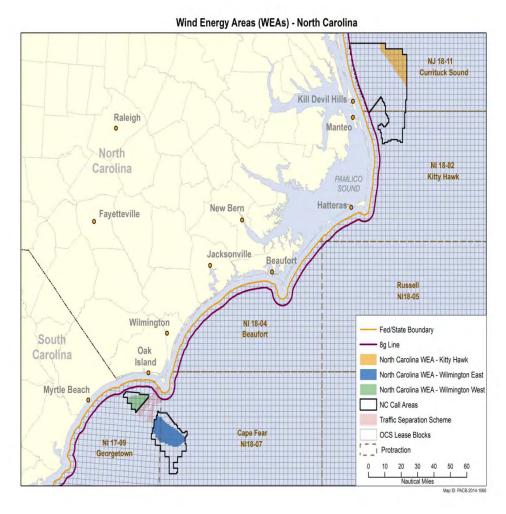
- DPP/NOI comment period ended on March 30, 2015.
 - Scoping meetings have been held in Wilmington (2/17) and Kill Devil Hills (3/16)
- Proposed Program and DEIS scheduled to publish early 2016 with comment and scoping period.
- Proposed Final Program and FEIS scheduled to publish late 2016.





Current Activities: North Carolina Wind Energy Areas (WEA)

North Carolina Wind Energy Areas (WEAs)







North Carolina OCS Wind Energy Status

Stage 1:

Planning & Analysis

North Carolina Task Force

- January 2011: Wilmington, NC
- •May 2011: Raleigh, NC
- •October 2011: Wilmington, NC
- August 2012: Nags Head, NC

You are here

Area Identification

• August 2014

Stage 2: Leasing

- Proposed Sale Notice
- •60 Day Comment Period
- •Final Sale Notice
- Mock Auction
- Auction

Publish Call for Information and Nominations and NOI to Prepare an EA

- •Published December 13, 2012
- •Comment Period Ended March 7, 2013

Conduct Environmental Compliance Reviews

- Published NOA of EA Jan. 22, 2015
- Comment Period Closed Feb. 23.





Recent and Upcoming Events

Renewable Energy North Carolina Wind Energy Areas Environmental Assessment Public Meetings

February 9 Kitty Hawk

February 11 Wilmington, NC

February 12 Caroline Shore

Oil and Gas 2017-2022 Draft Proposed Program (DPP) Draft Environmental Impact Statement Scoping Meetings

Washington DC

Echruary 0

February 9	washington, DC
February 11	Norfolk, VA
February 17	Wilmington, NC
February 19	Jacksonville, FL
March 9	Annapolis, MD
March 11	Charleston, SC
March 16	Kill Devil Hills, NC
March 18	Atlantic City, NJ
March 24	Savannah, GA

Seismic Atlantic Geological and Geophysical Activities Public Meetings

March 31	Norfolk, VA
April 1	Annapolis, MD
April 2	Dover, DE
April 7	Wilmington, NC
April 8	Charleston, SC
April 9	Savannah, GA
April 27	Kill Devil Hills, NC
TBD	Jacksonville, FL



Contacts

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Additional Information:

http://www.boem.gov/Oil-and-Gas-Energy-Program/

http://www.boem.gov/Renewable-Energy/

QUESTIONS???

