Agenda State of North Carolina Bureau of Ocean Energy Management (BOEM) Offshore Wind Development - Stakeholder Meeting Thursday August 20, 2010

Overview Jennifer Bumgarner and Larry Shirley

- NC Department of Commerce

Offshore Wind Technology
 Bob Leker - NC Department of Commerce

BOEM Introduction
Al Pless - BOEM

Regulatory Framework, Offshore Renewable Energy Development

Jessica Bradley – BOEM

Environmental Review Process Jennifer Kilanski – BOEM

BOEM – North Carolina Renewable Energy Task Force
 Al Pless

Panel Discussion Bob Leker

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Renewable Energy Overview

North Carolina Offshore Wind

Jessica Bradley Jennifer Kilanski Al Pless

Office of Renewable Energy Programs

U.S. Department of the Interior Bureau of Ocean Energy

Philosophy

- BOEM is committed to work together with States to determine when and where to undertake OCS leasing
- This team approach will insure efficient, safe, & environmentally sound ocean energy development
- Coordinate with all stakeholders
- Apply our renewable energy regulatory framework in conjunction with interagency-led planning activities
- Encourage compatible multiple-use

Consultation and Coordination

Task Forces

- Established at Governor's request
- Include state, local, and tribal governments, and Federal agencies
- Facilitate efficient review process for renewable energy planning and leasing activities
- Inform the BOEM OCS Renewable Energy Program (e.g., environmental/technical studies)

Intergovernmental Task Forces



- Task Force States: Massachusetts, New Jersey, Rhode Island, Delaware, Virginia, Maryland, and Maine
- On the Horizon: North Carolina, New York, South Carolina, Florida

Massachusetts

- Renewable Energy Portfolio Standard
- Renewable Energy Task Force
- Cape Wind
 - On April 28th Secretary Salazar signed a record of decision
 - Cleared the way to offer a commercial lease to the developer.
 - 130 3.6 MW turbines 468 MW.
- Ocean Management Plan

Rhode Island

- Renewable Portfolio Standard
- Renewable Energy Task Force
- Special Area Management Plan (SAMP)
 - Insure compatibility between offshore wind and sustainability of the offshore resource
- Potential Area for wind Farm Development Identified

New Jersey

- Renewable Portfolio Standard
 - Energy Master Plan
- Renewable Energy Task Force
- Baseline Environmental Study
- Three Interim Policy Leases
- Met Tower Reimbursement
- Offshore Renewable Energy Credit for Offshore Wind

Delaware

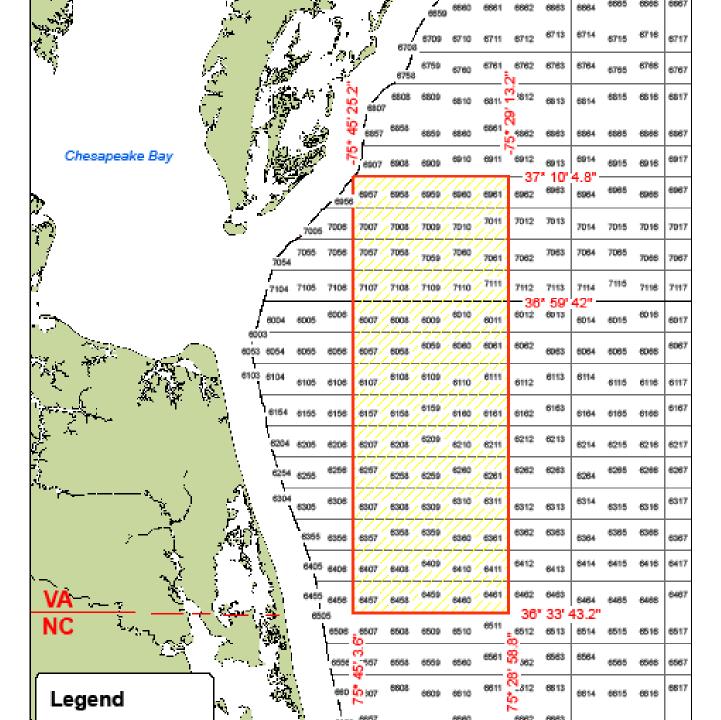
- Renewable Portfolio Standard
- Renewable Energy Task Force
- One IP Lease issued in November 2009
- Developer and Delmarva Power PPA
- Cooperative Research and Development Agreement with DOE
- Request For Interest Published this past Spring
 - Received 2 Expressions of Interest

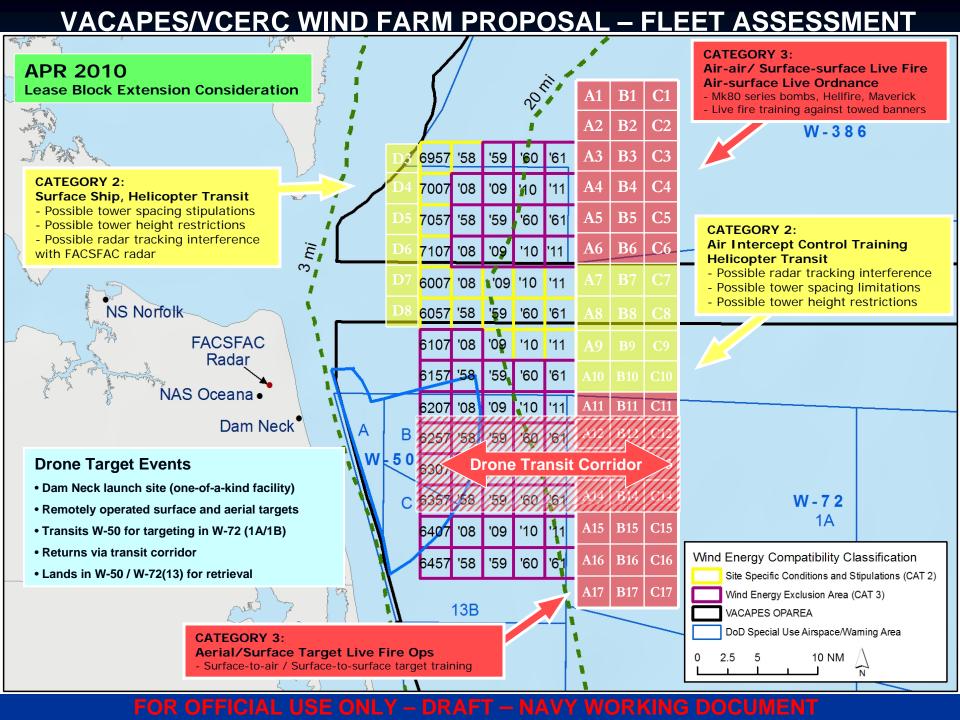
Maryland

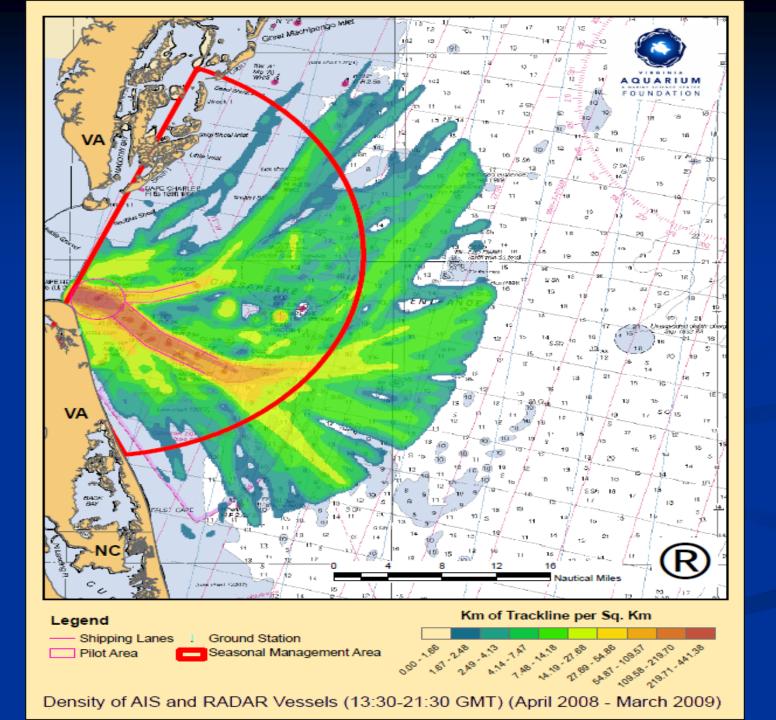
- Renewable Portfolio Standard
- Renewable Energy Task Force
- Coastal Community Stakeholder Outreach
- Potential RFI Area

Virginia

- Renewable Energy Portfolio Goal
- Renewable Energy Task Force
- Triple Credit for Offshore Wind
- Virginia Offshore Wind Development Authority
- Virginia Offshore Wind Coalition
- Multi-University Collaborative Research

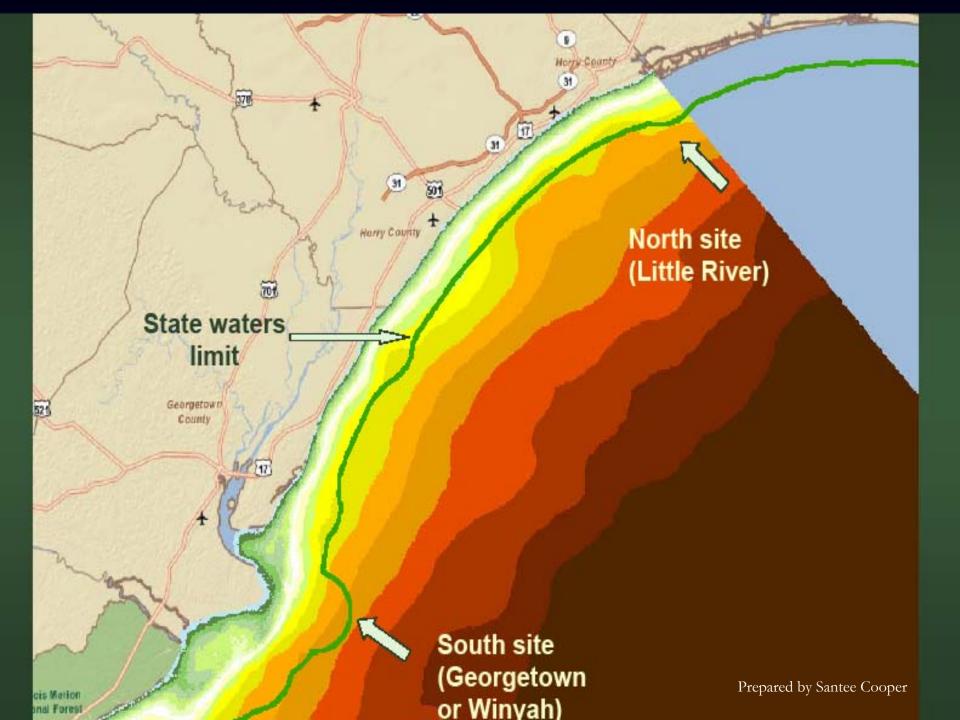




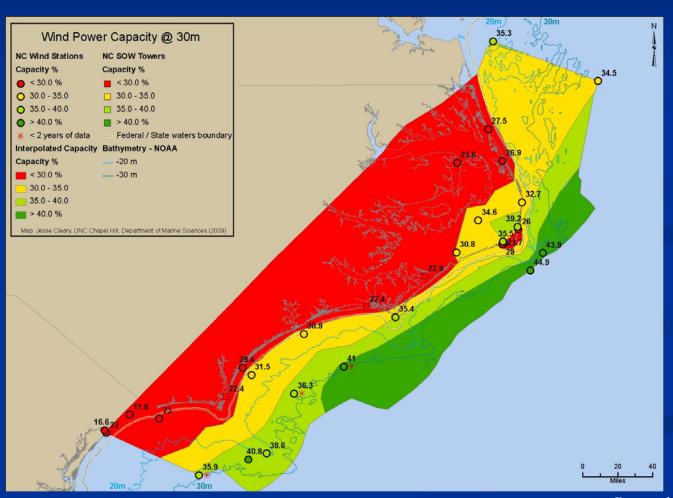


South Carolina

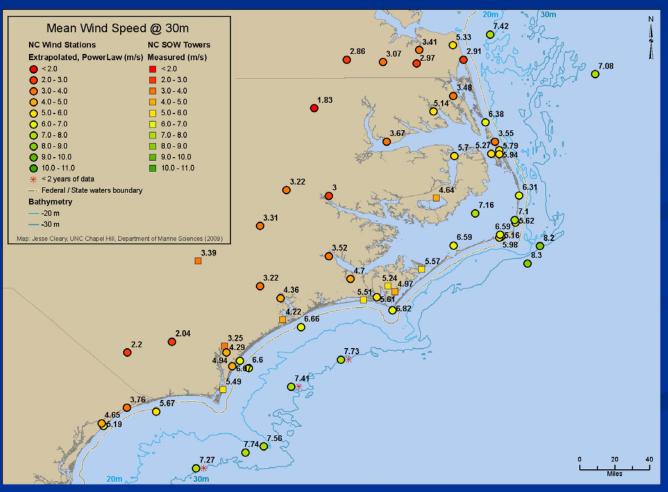
- SE Regional Wind Symposium
- Coastal Wind For Schools
- Palmetto Winds Research Wind Mapping
 - DOE Grant Supplemented by Santee Cooper
 - Six buoys and two Observation Stations
- Identification of Exclusion Zones

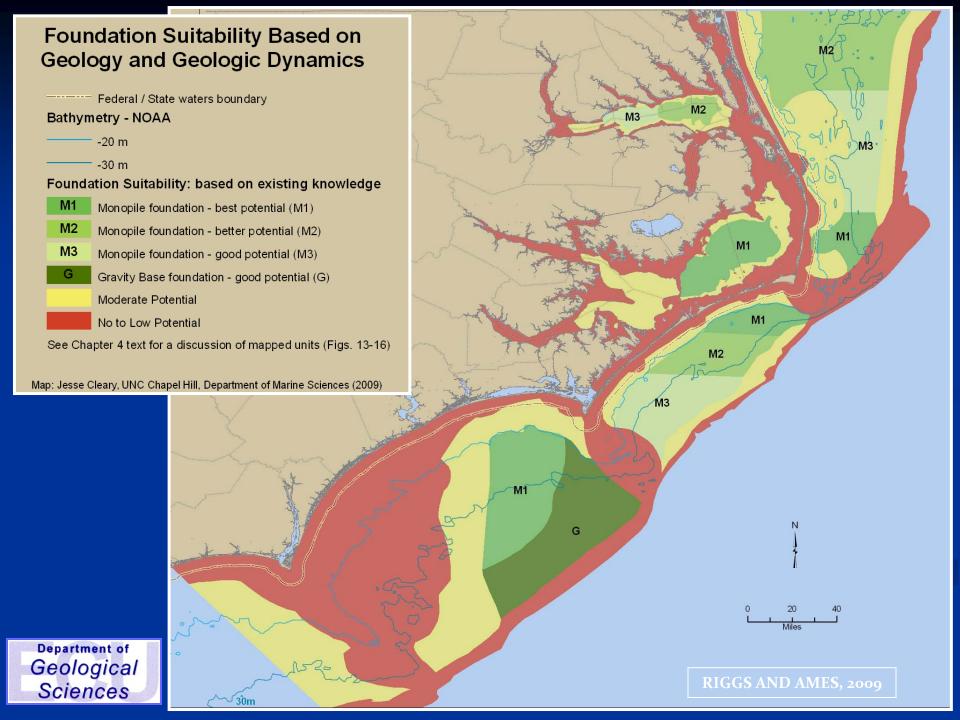


North Carolina Capacity Factor Map

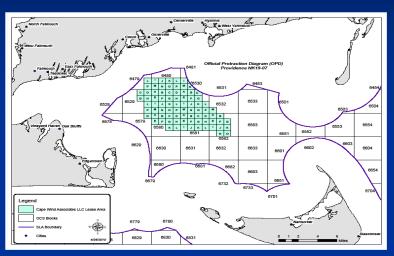


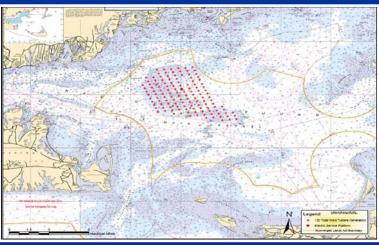
North Carolina Power Law Data Estimates Higher Offshore Wind





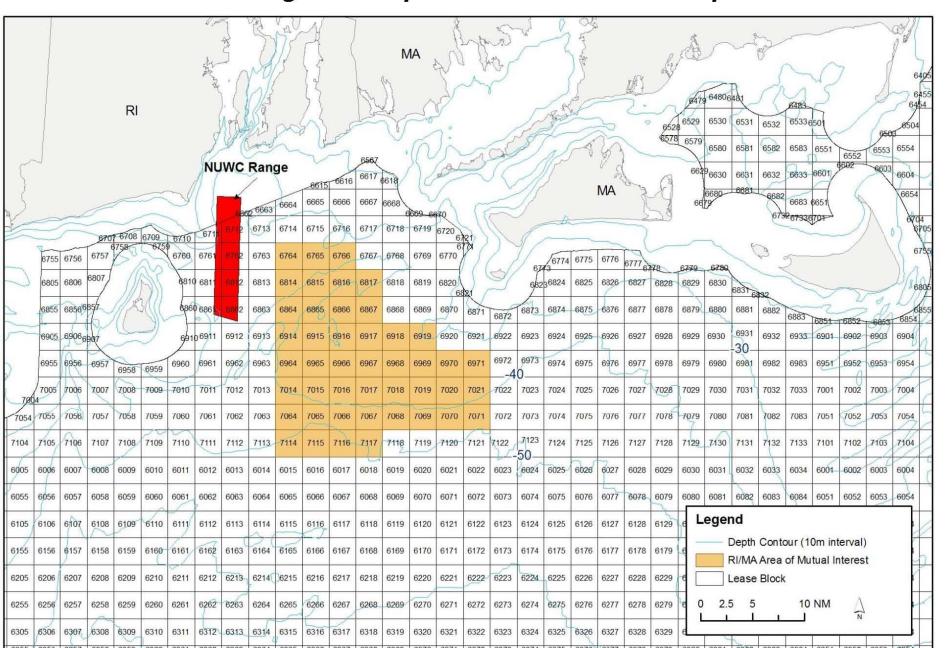
Cape Wind Energy Project

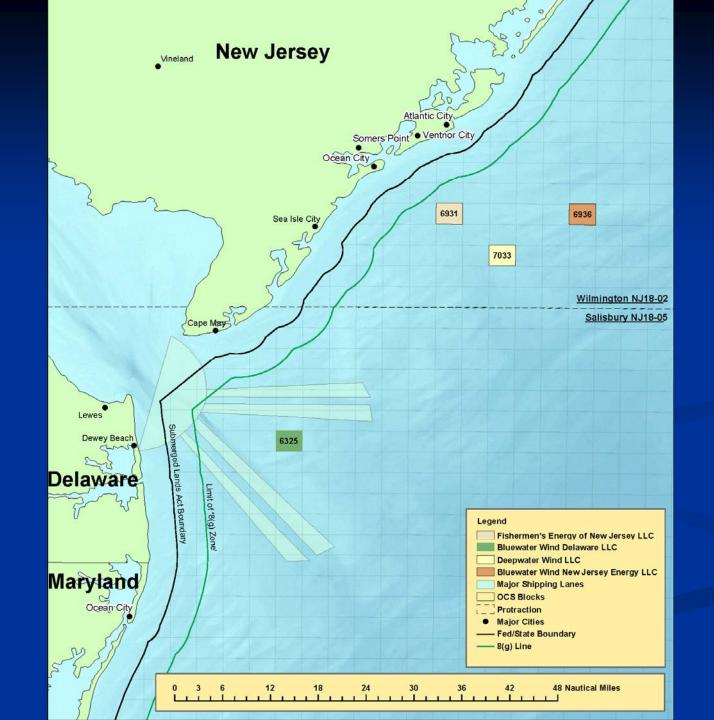


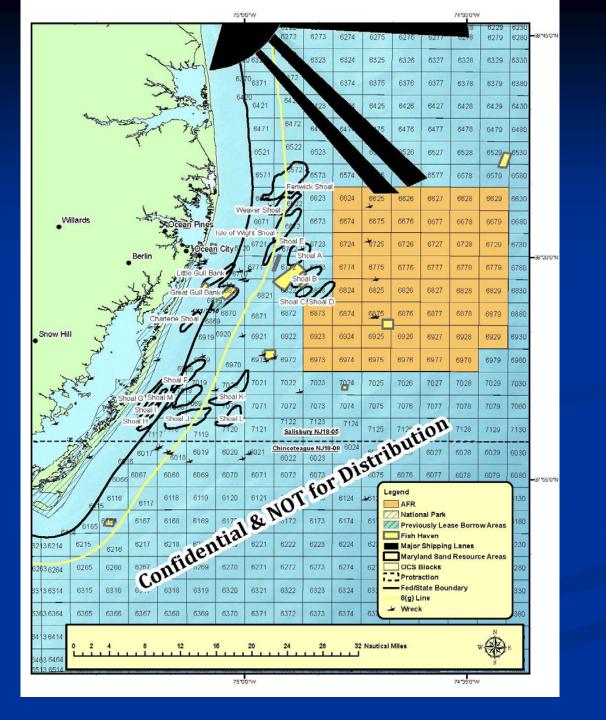


- Propose to construct
 130, 3.6 MW wind
 turbine generators
 offshore Massachusetts
- Final Environmental Impact Statement (FEIS) published in January 2009
- Record of Decision issued in April 2010

Potential Offshore Wind RFI: MA & RI and the Narragansett Bay Shallow Water Test Facility

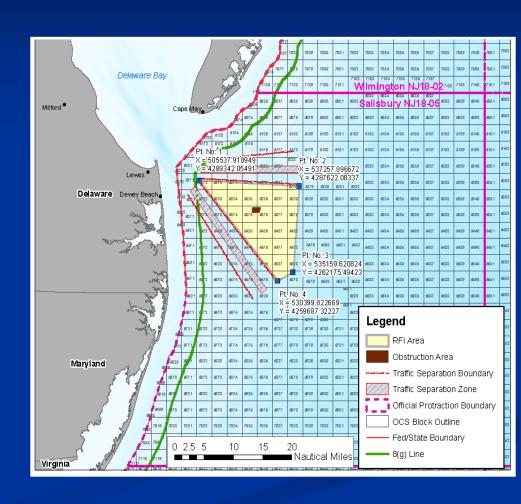






Potential Commercial Projects

- Delaware
- Published an RFI to determine interest in commercial wind development in an area offshore
 - 8 responses received
 - 2 commercial nominations



Wind Study Work

- Wind Mapping
- SE Regional Off-shore Wind Symposium
- 50 meter Anemometer Stations
- SODAR development for offshore use
- Coastal Wind for Schools Program
 - 4 educational sites in progress
- Extensive Study of Offshore Wind Feasibility
 - Two Grants from DOE
 - Exclusion Zones





Palmetto Winds Research Project



- DOE Grant provides partial funding, Santee Cooper provided funding to extend study to one year
- 6 instrumentation buoys, 2 shore-based observation stations



