



U.S. Outer Continental Shelf Renewable Energy

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Office of Renewable Energy Program Manager

Marine Fisheries Advisory Committee Meeting

October 15, 2019 | Silver Spring, Maryland



Outer Continental Shelf (OCS) Energy

OCS Lands Act: "... vital national resource ... expeditious and orderly development ... environmental safeguards"

Energy Policy Act of 2005: "... energy from sources other than oil and gas ..."

Alaska OCS



Pacific OCS



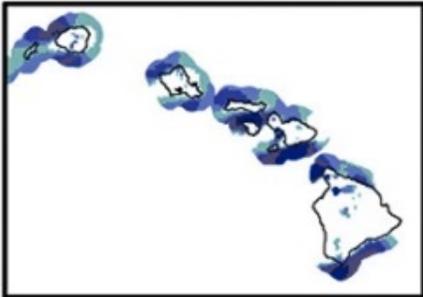
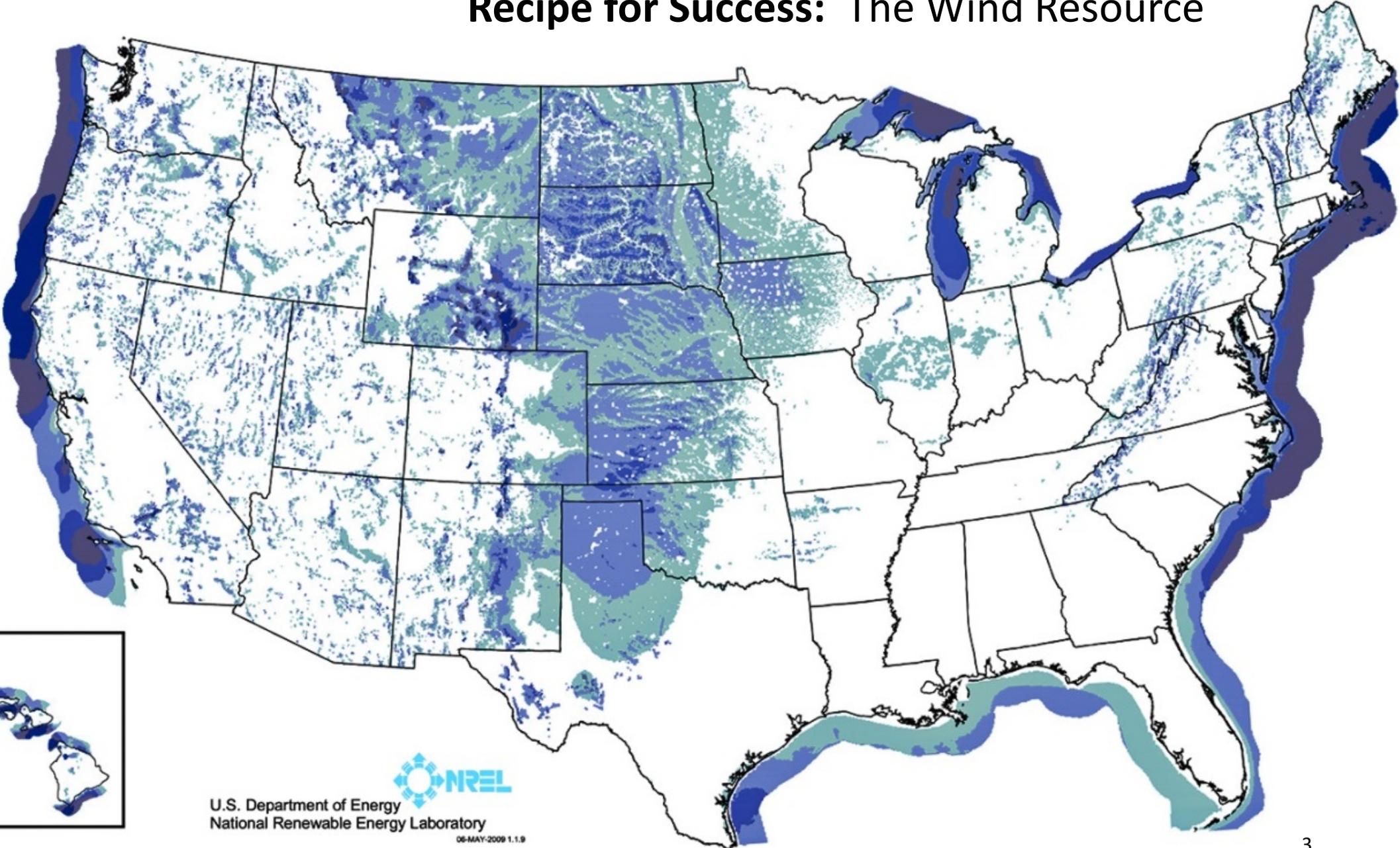
Gulf of Mexico OCS



Atlantic OCS



Recipe for Success: The Wind Resource



U.S. Department of Energy
National Renewable Energy Laboratory
06-MAY-2009 1.1.9

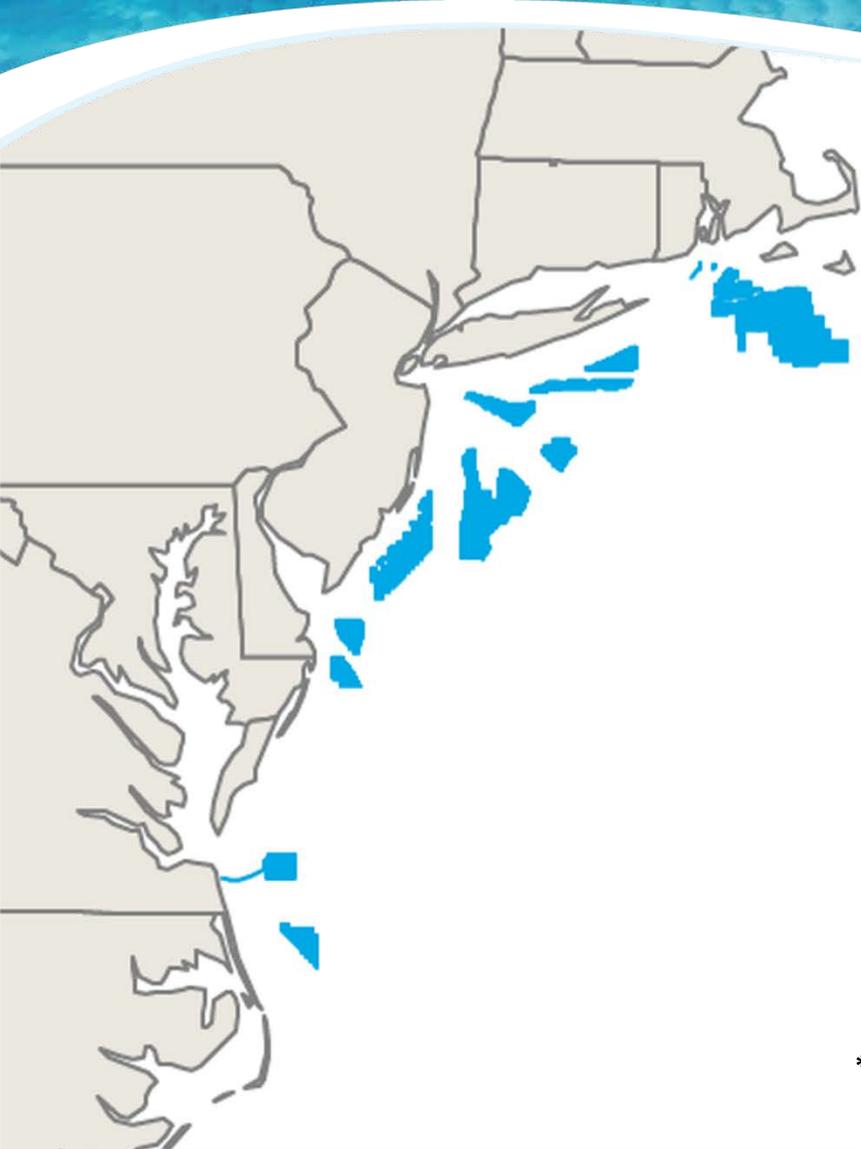
Recipe for Success: Buildable Environment



Recipe for Success: Market Demand



Atlantic OCS Renewable Energy: State Leadership



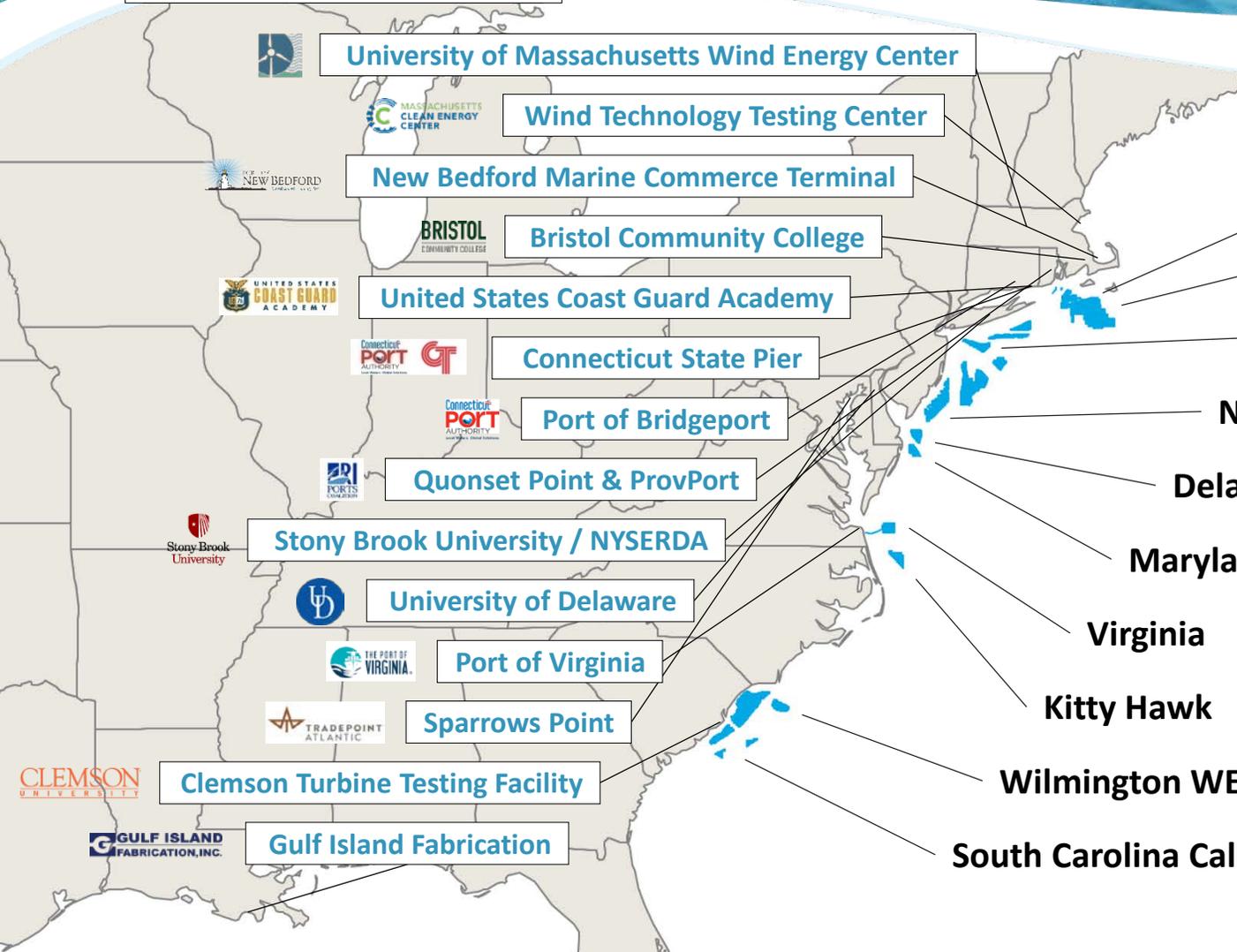
	Renewable Goals *	Offshore Wind Goals (MW)	PPAs/ORECs *** Awarded (MW)	Scheduled Solicitations †
Massachusetts	35% by 2030	3,200	800	800
Rhode Island	38.5% by 2035	1,000 **	430	--
Connecticut	48% by 2030	2,300	300	2,000
New York	70% by 2030	9,000	1,826	--
New Jersey	50% by 2030	3,500	1,100	1,200
Maryland	50% by 2030	2,000	368	--
Virginia	30% by 2030	2,652	12	--
TOTAL	--	23,652 MW	4,836 MW	4,000 MW

* Not specifically offshore wind | ** Clean Energy Goals, not specific to offshore wind | † Request for Quotes issued
 *** "Power-Purchase Agreements and Offshore Renewable Energy Credits"



Issues & Opportunities: Atlantic OCS Renewable Energy Activities

INDUSTRIAL FACILITIES





Office of Renewable Energy Programs

Leasing

- 15 commercial wind energy leases in the Atlantic
- Upcoming lease sale in New York

Site Assessment Plans (SAP)

- 7 approved (MA, RI, VA, MD, MA, NJ, NY)

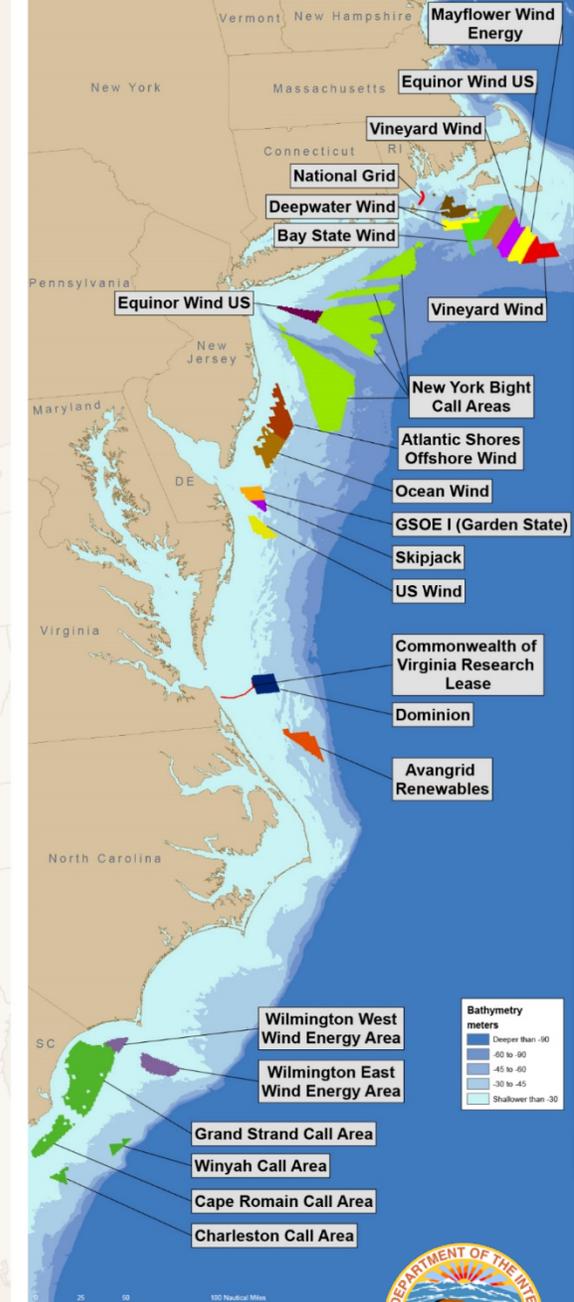
Construction And Operations Plans (COP)

- 5 processing (Vineyard Wind, Deepwater Wind South Fork, Bay State Wind, Skipjack and Ocean Wind)
- 4-6 more expected within next 12 months

➤ Planning activities continue off Hawaii, California, Carolina, New York Bight and Gulf of Maine

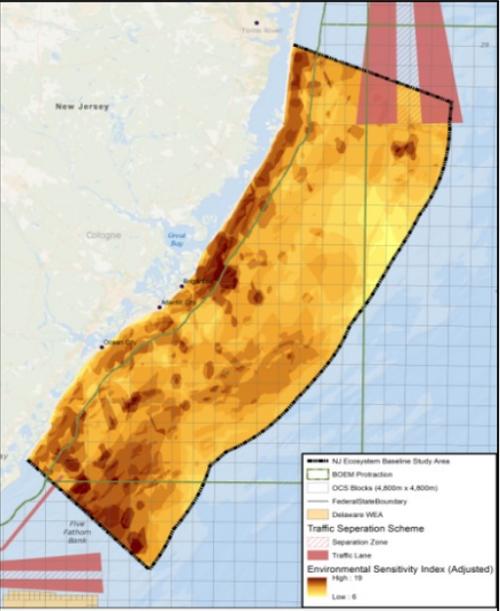
➤ Guidelines: Lighting & Marking

➤ California received 14 nominations from the Call for Information and Nominations issued October 19, 2018



OCS Renewable Energy Authorization Process

Planning & Analysis



Leasing



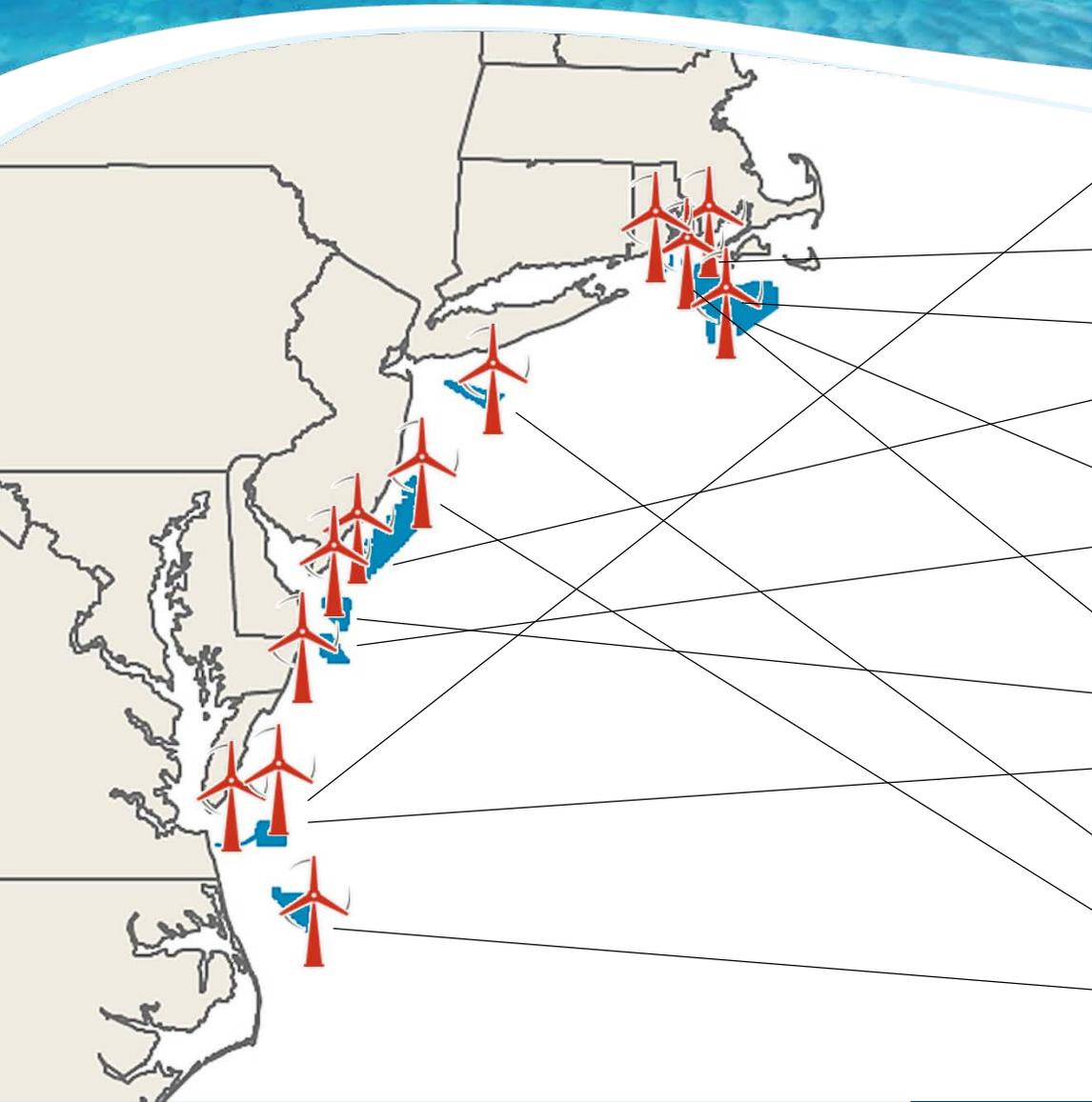
Site Assessment



Construction & Operations



Atlantic OCS Renewable Energy: “Projects in the Pipeline”

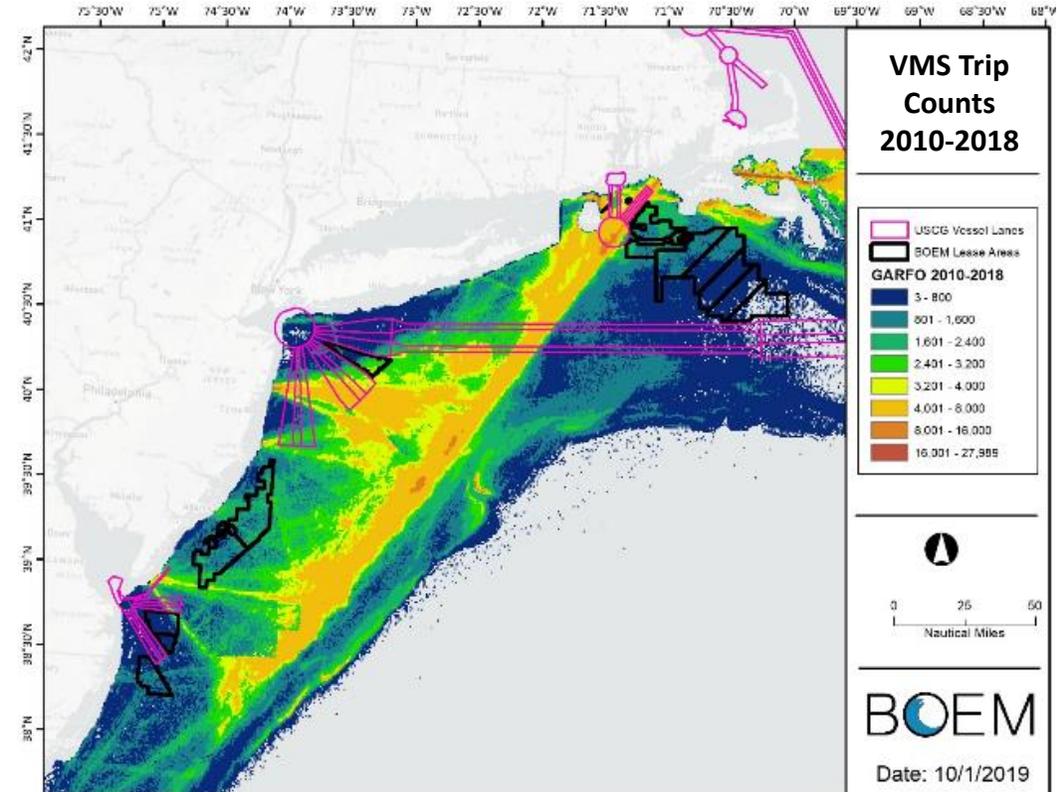


Year	Project	Company
2020	Coastal Virginia Offshore Wind	 
2021	Vineyard Wind	
2022	South Fork	
2022	Ocean Wind	
2022	Bay State Wind	
2022	U.S. Wind (MD)	
2023	Revolution Wind	
2023	Skipjack Windfarm	 
2025	Dominion Commercial Lease	
2025	Empire Wind	
2026	Atlantic Shores	
2027	Kitty Hawk	



Fisheries Information

- Intergovernmental Renewable Energy Task Force Meetings
- Council, Commission, and Advisory Panel Meetings
- NEPA Scoping and Public Hearings
- Directed Studies
- Lessee Plans (*BOEM has fisheries information requirements for plans and requires a fishery communication plan for activities occurring on lease areas*)



Consultation with National Marine Fisheries Service

- Intergovernmental Renewable Energy Task Forces
- Offshore Wind Permitting Subgroup
- MSA's EFH Provisions
- ESA Consultation
- MMPA Provisions
- BOEM, NMFS, and RODA MOU



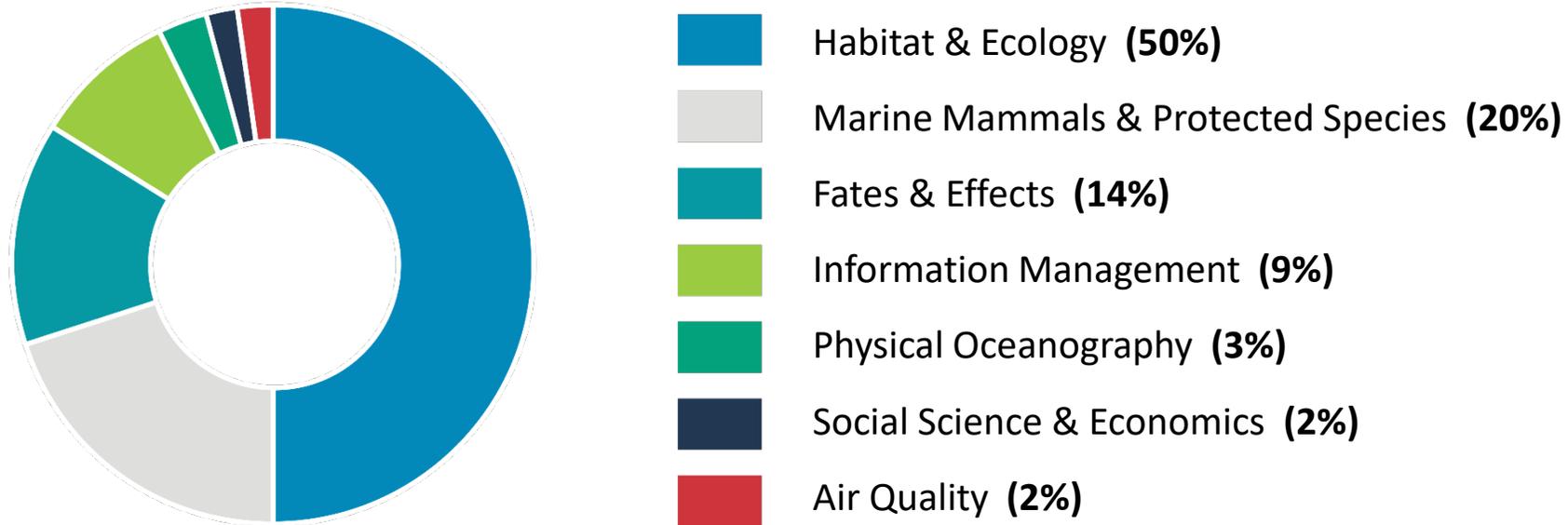
Environmental Studies Program

- Public solicitation
- National Academy of Sciences (NAS)
 - Standing Committee on Offshore Science and Assessment (COSA)
- Environmental assessment and decision-maker



Environmental Studies Program

Funds for Renewable Energy Information Needs | FY 2011-18 Cumulative (~\$47M)



Includes obligations for all regions supporting environmental information needs for renewable energy, totaling \$47.3 million

Fisheries-related Studies in 2019

- New Starts include:
 - Hydrodynamic Modelling
 - Cox Ledge Fish Spawning Study
 - Surfclam / Ocean Quahog Fishery Impact Modelling
 - Pilot Southern New England Fisheries Monitoring
- Collaborative, regional long-term, regional fisheries monitoring
- Developers' site-specific studies

BOEM

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

BOEM.gov



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