



Bureau of Ocean Energy
Management

Offshore Wind Energy Update

2019 Marine Board Fall Meeting
Woods Hole, Massachusetts
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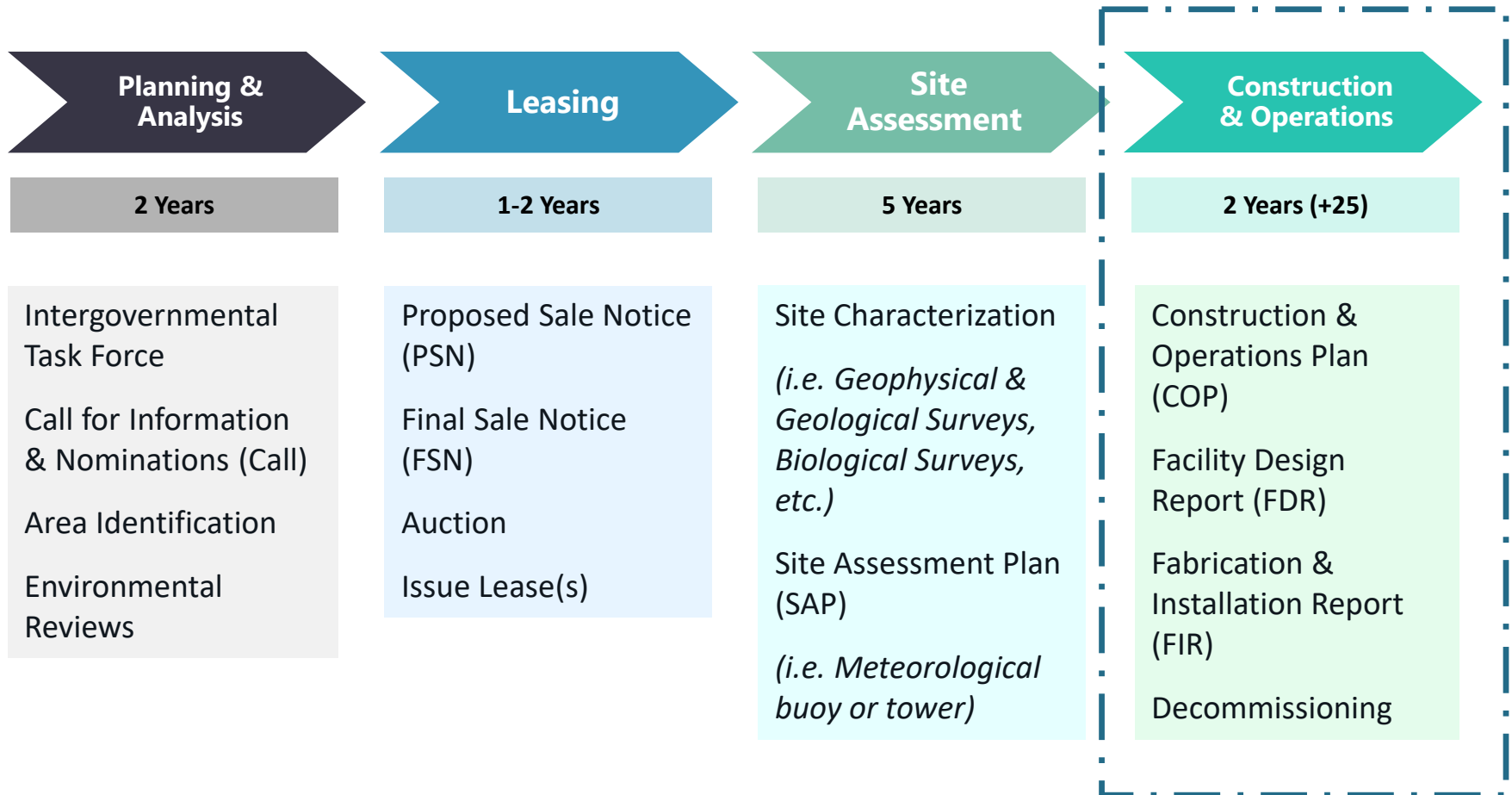
Energy Policy Act 2005



- Key Mandates
 - Outer Continental Shelf Lands Act as Amended
 - Safe operations and protection of the environment
 - **Coordination** with affected State, local, & tribal governments & relevant Federal agencies
 - Fair return for use of OCS lands
- Regulations in effect April 2009
 - 30 CFR 585
- Since then
 - Block Island Wind Farm (30 MW); State waters
 - Coastal Virginia Offshore Wind (12 MW)



OCS Renewable Energy Authorization Process



Atlantic States Offshore Wind Energy Commitments

o Awarded = 4,861 MW (dark green)

o Announced = 7,912 MW (light green)

o Planned* = 9,914 MW (blue)

*(currently unscheduled)

State ¹	<2019	2020	2021	2022	2023	2024	2025	2026	2027	2028	2029	TOTAL MW
ME		12										12
NH												0
MA	800	800			800			800				3,200
RI	430											430
CT	304	1,200		800								2,304
NY	1,826		1,500		1,500 ³		1,500 ³		1,500 ³		1,174 ³	9,000
NJ	1,100	1,200		1,200								3,500
DE												0
MD	389	400	400	400								1,589 ²
VA	12			880	880	880						2,652
NC												0
SC												0
TOTAL:	4,861	3,612	1,900	3,280	3,180	880	1,500	800	1,500	0	1,174	22,687



Offshore Wind Energy Development Status

Planning activities

- ⇒ **NY Bight** – identify wind energy areas; NY lease sale
- ⇒ **Gulf of Maine** – initial task force meeting December 2020
- ⇒ **Carolinas** – developing planning strategy

Leasing

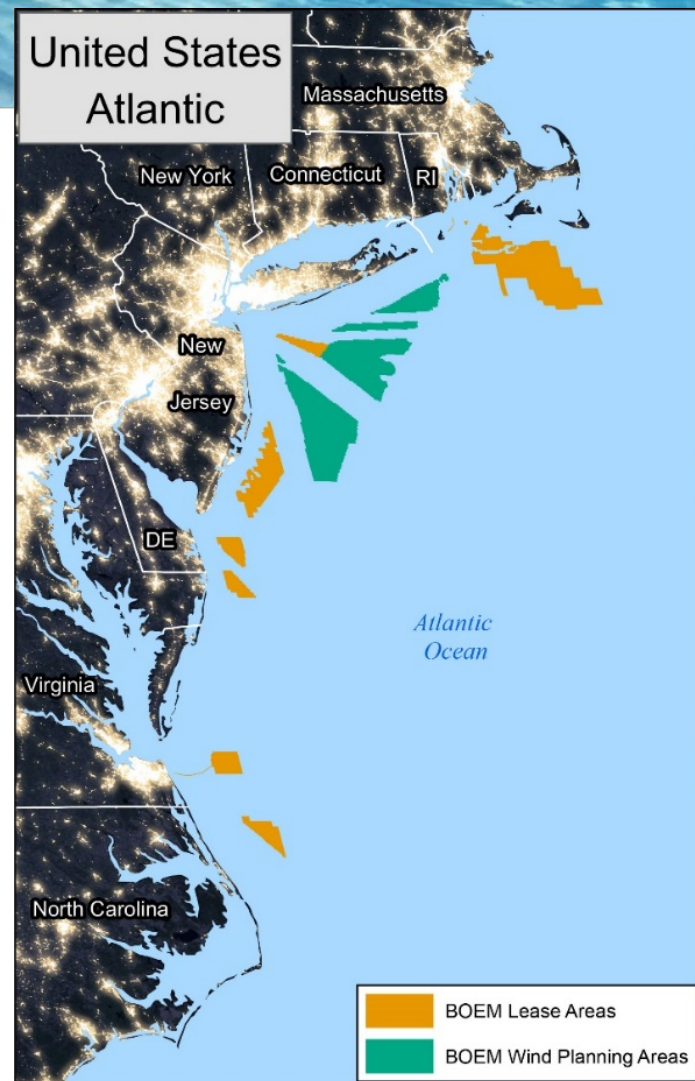
- ⇒ **15** commercial wind energy leases in the Atlantic (**8** NE)

Site Assessment Plans

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

Construction and Operations Plans (COP)

- ⇒ **5 processing** (**3** in the Northeast)
 - ✓ Vineyard Wind (submitted December 2017) – **800 MW**
 - ✓ South Fork (submitted June 2018) -
 - ✓ Bay State Wind (submitted March 2019) -
 - ✓ Skipjack (submitted April 2019)
 - ✓ Ocean Wind (submitted August 2019) -
- ⇒ Ongoing survey activity
- ⇒ **Up to 6 COPs expected** within next 12 months (?)



What's in a COP? (Construction & Operations Plan)

- ✓ Project Plan **with supporting data & information** for siting, construction, operation, & conceptual decommissioning of a renewable energy facility
- ✓ COP information is the basis for NEPA review, Section 106, & other consultations
- ✓ BOEM will prepare an Environmental Impact Statement
- ✓ Also included
 - ✓ Navigation Risk Assessment (NVIC 01-19)
 - ✓ Design and Installation Verification Agent nomination
 - ✓ Preliminary Safety Management System & Oil Spill Response Plan



Structural Integrity of Offshore Wind Plan Facilities

- o **Transportation Research Board – Special Report 305 (2011)**
 - ✓ BOEM sponsored workshops in 2014 and 2016
 - ✓ Offshore Wind Technical Advisory Project (OWTAP)
 - BOEM Partnering with BSEE, NREL and AWEA (2017-2021) to develop ANSI approved U.S. Standards
- o **Guidelines**
 - ✓ MetOcean data collection
 - ✓ G&G data collection
 - ✓ Lighting and Marking
 - ✓ Ongoing Research
- o **Certified Verification Agent Program**
 - ✓ BOEM/BSEE Defined Scope of Work
 - ✓ Hierarchy of Standards
 - ✓ Gap Analysis
- o **FDR/FIR Review for Coastal Offshore Virginia project**
 - ✓ Process and procedures developed
 - ✓ Defined/refined regulatory terms (i.e. fabrication)
 - ✓ Lessons learned incorporated



For More Information

- **Bureau of Ocean Energy Management**
www.boem.gov
- **Renewable Energy Program**
www.boem.gov/Renewable-Energy
- **A Citizen's Guide to BOEM's Renewable Energy Authorization Process**
<https://www.boem.gov/KW-CG-Broch/>
- **Regulatory Information**
www.boem.gov/Regulatory-Development-Policy-and-Guidelines
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