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Eastern Atlantic States

REGIONAL COUNCIL OF CARPENTERS



OFFSHORE POWER



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BLUEPOINT
WIND

Time for Turbines – Stockton University, New Jersey

October 28, 2022

AGENDA



1 ABOUT BLUEPOINT WIND

2 TIMELINE & PROGRESS TO DATE

3 CORE VALUES

4 LOCAL IMPACT

5 WORKING TOGETHER

ABOUT BLUEPOINT WIND



BLUEPOINT WIND

50%



50%



50%



50%



50 years of experience in development, financing, construction & operation of renewables projects.
15 years of experience on offshore wind projects.

Projects in communities all over the world:

- United Kingdom
- France
- Belgium
- United States (MA)
- Portugal
- Poland
- South Korea



ABOUT OCEAN WINDS, NA



OW North America LLC



50% OW

50%

Mayflower Wind Energy LLC (New England)

- 804MW PPA secured
- Additional 400MW of PPA executed & regulatory approval underway

50% OW

50%

Bluepoint Wind Energy LLC (New York/New Jersey)

Ocean Winds NA is applying its global experience at the local scale for Mayflower Wind in Massachusetts and, soon, Bluepoint Wind in the New York Bight.

ABOUT BLUEPOINT WIND



ABOUT THE LEASE AREA:

Lease Area Number: OCS-A 0537

Size of Lease: 71,522 acres / 289 km²

Average Depth: 54.5 meters

Distance from Shore: 53 nautical miles (nm) to NJ,
38 nm to NY

Expected Capacity: 1.7 gigawatts (GW) enough to
power up to 900,000 homes

Expected Avoided Emissions: 5.07 million metric
tons of CO₂, or the equivalent of taking 1.09 million
gasoline powered passenger vehicles off the road
for one year. (Source: EPA)



TIMELINE: STAKEHOLDER ENGAGEMENT, PLANNING & DEVELOPMENT



Planning & Development

Years 1 to 5

Offshore survey activities conducted. Baseline environmental data collected and stakeholder relationships built. Learnings incorporated into design for offshore and onshore facilities. Regulatory review and approvals sought. Project undergoes regulatory review and approval.



Supply Chain Development

Years 6 to 7

Manufacturers fabricate machinery, transport it to ports, and begin supply chain assembly.



Construction & Installation

Years 8 to 12

Turbines constructed onshore, transported offshore, and installed within the lease area.



Operations & Maintenance

Years 13 to 33+

Wind turbines will generate electricity, while receiving routine inspection and maintenance over the lifespan of the project.

DECOMMISSIONING

We Are Here

Technical Studies, Project Design & Development, Community Outreach, Partnerships & Commitments

Technical Studies & Planning Initiatives:

- Environmental Diligence of lease/cable areas
- Fisheries Assessment & Outreach
- Port & Supply Chain Assessment
- Grid & Interconnection Evaluation
- POI Analysis in PJM
- Stakeholder Listening Sessions
- Native American Tribes Engagement
- Federal, State and Local Permitting Plan
- Preliminary Cost Estimates for Port Investments
- Supply Chain Analysis
- Stakeholder Engagement & Workforce Development Planning



BLUEPOINT WIND IS COMMITTED TO THE RESPONSIBLE DEVELOPMENT OF OFFSHORE WIND, STAKEHOLDER ENGAGEMENT AND BUILDING LONG TERM VALUE FOR RATEPAYERS & STAKEHOLDERS.

BLUEPOINT WIND IS:



A global energy leader with local presence

By harnessing its experience around the world, Bluepoint Wind will focus on developing projects that adapt to the unique needs and goals of stakeholders in the New York Bight.

Invested for the long-term

Bluepoint Wind will endeavor to build projects, programs, and relationships from the ground up to ensure inclusive participation for generations.

Committed to sustainability

Bluepoint Wind will invest in environmental protection and will work collaboratively with other ocean users towards mutual benefit and solutions.

Dedicated to advancing social equity

Bluepoint Wind supports a Just Transition that prioritizes investments, community benefits, and workforce development in historically disadvantaged communities.

Innovative and creative

Through collaboration and creativity, Bluepoint Wind will transform challenges into opportunities to find new solutions.

Dedicated to safety

Bluepoint Wind will prioritize a safety-first mindset at every project phase, treating our people, communities, and environment with care.

EXAMPLES OF LOCAL IMPACT



Mayflower Wind, (Ocean Winds and Shell), though still in the advanced development phase is expected to deliver long-term benefits to communities in Massachusetts.

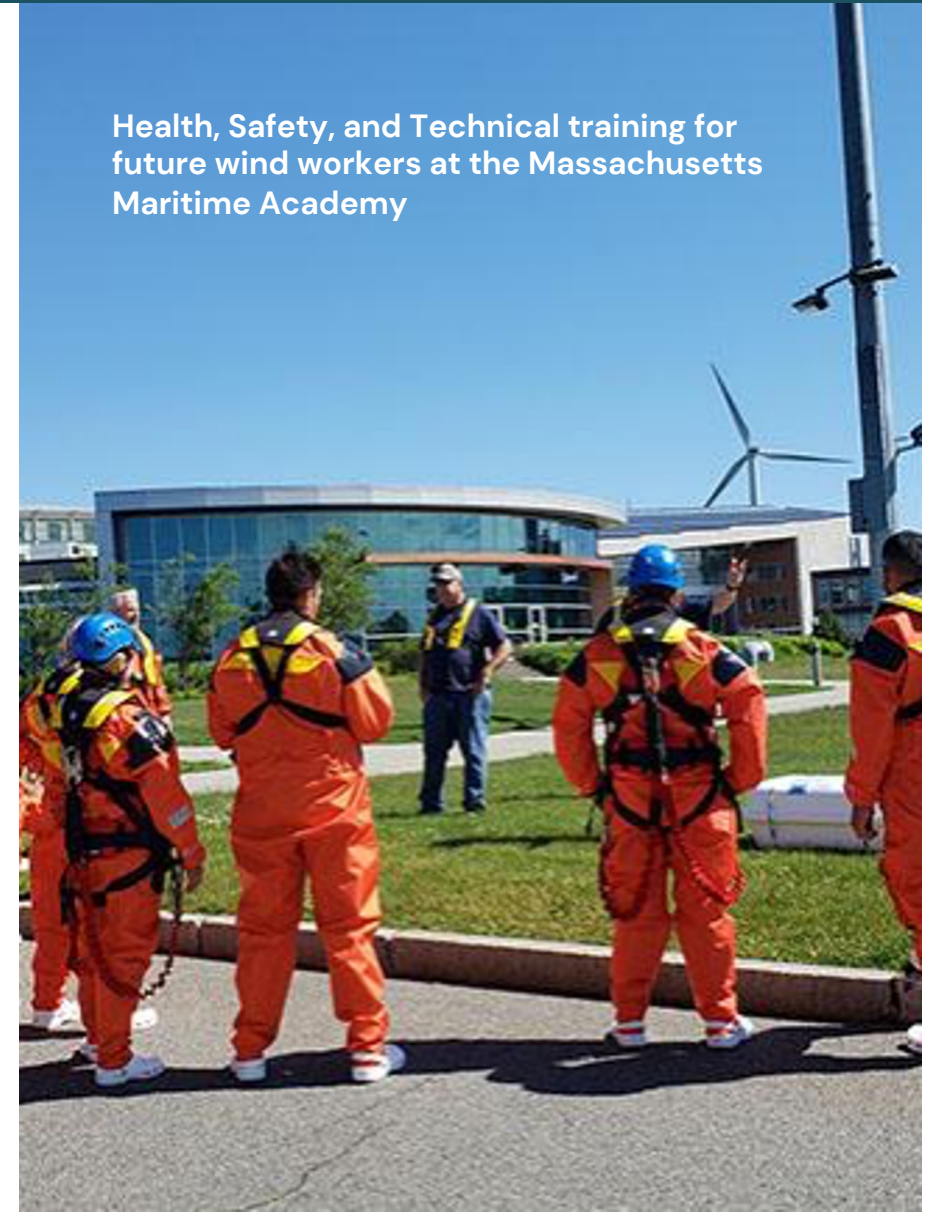
- **14,000 good-paying new jobs** across all project phases— planning & development, construction, and operations.
- **75% of O&M jobs** will be locally-based.
- Nearly **\$2.5 billion** in total est. economic benefit to the state.

Identified and met local needs in Cape Cod communities:

- **Host Community Agreement** with Falmouth to fund locally-driven initiatives
- **Workforce training** and STEM education initiatives
- Energy **bill subsidies** in partnership with local power agencies

Invested in infrastructure, including:

- **Building O&M facilities for local jobs**
- Incorporating electric vehicle and climate resilient infrastructure in service ports



Health, Safety, and Technical training for future wind workers at the Massachusetts Maritime Academy



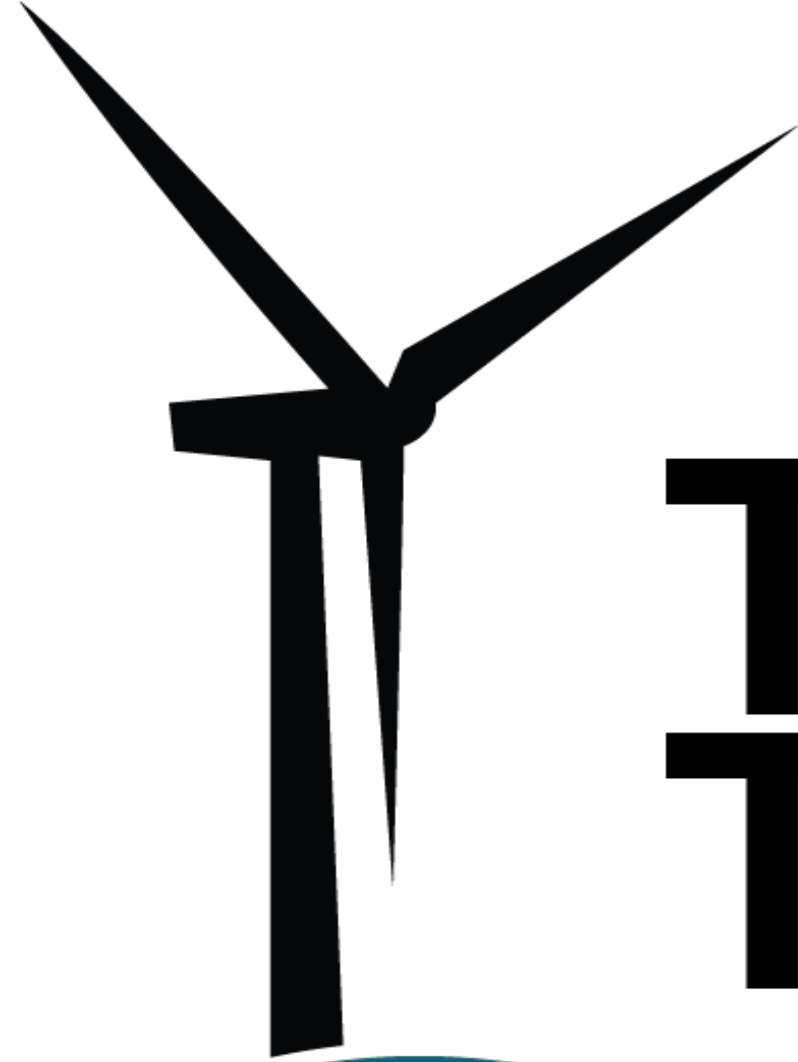
BLUEPOINT
WIND

POWERING A CLEAN ENERGY FUTURE FOR ALL

Stay in touch!

John Dempsey, Chief Executive Officer

John.Dempsey@bluepointwind.com



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Outer Continental Shelf (OCS) Renewable Energy

James Bennett

*Bureau of Ocean Energy Management
Office of Renewable Energy Programs*

Jersey Renews

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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



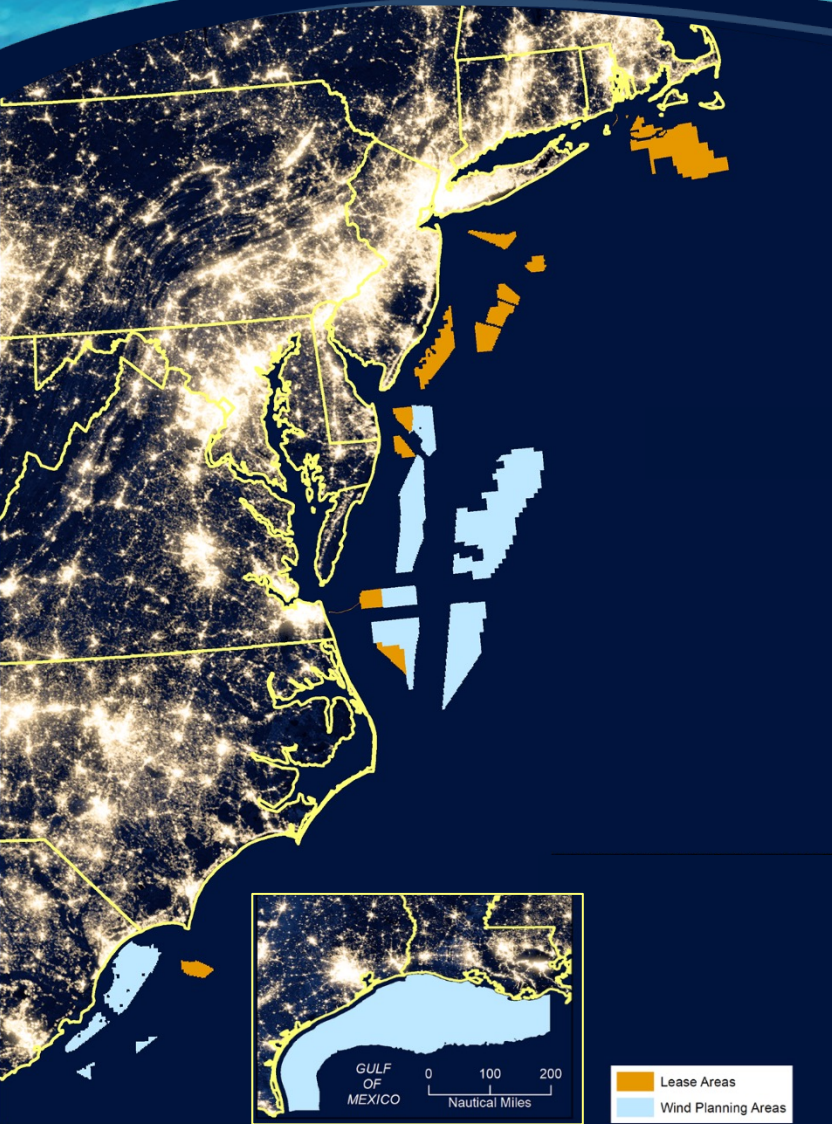
Gulf of Mexico OCS



Atlantic OCS



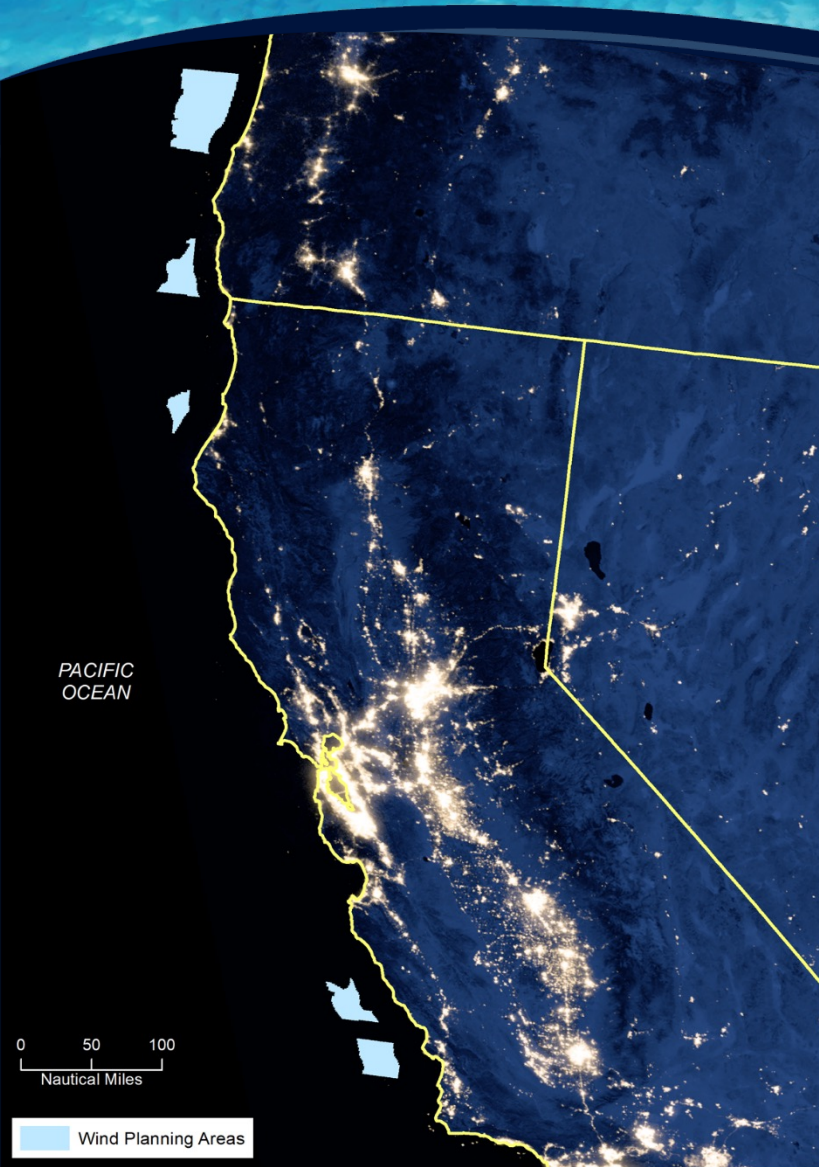
Atlantic OCS Renewable Energy: State Leadership & Renewable Energy Goals



	Renewable Goals	Offshore Wind Goals (MW)	Offshore Wind: "Offtake" Awarded (MW) + Scheduled (MW)		
Atlantic OCS Renewable Energy: Renewable Goals					
Maine	80% by 2030	144	0	+	0
Massachusetts	35% by 2030	5,600	3,200	+	0
Rhode Island	100% by 2030	unspecified	430	+	600
Connecticut	48% by 2030	2,300	1,108	+	0
New York	70% by 2030	9,000	4,316	+	2,000
New Jersey	50% by 2030	7,500	3,758	+	3,742
Maryland	50% by 2030	1,568	2,023	+	0
Virginia	30% by 2030	5,212	2,652	+	0
North Carolina	unspecified	2,800	0	+	0



Atlantic OCS Renewable Energy: State Leadership & Renewable Energy Goals (cont.)



	Renewable Goals	Offshore Wind Goals (MW)	Offshore Wind: "Offtake" Awarded (MW) + Scheduled (MW)
ATL TOTAL	--	34,124 MW	23,829 MW

Pacific OCS Renewable Energy: Renewable Goals

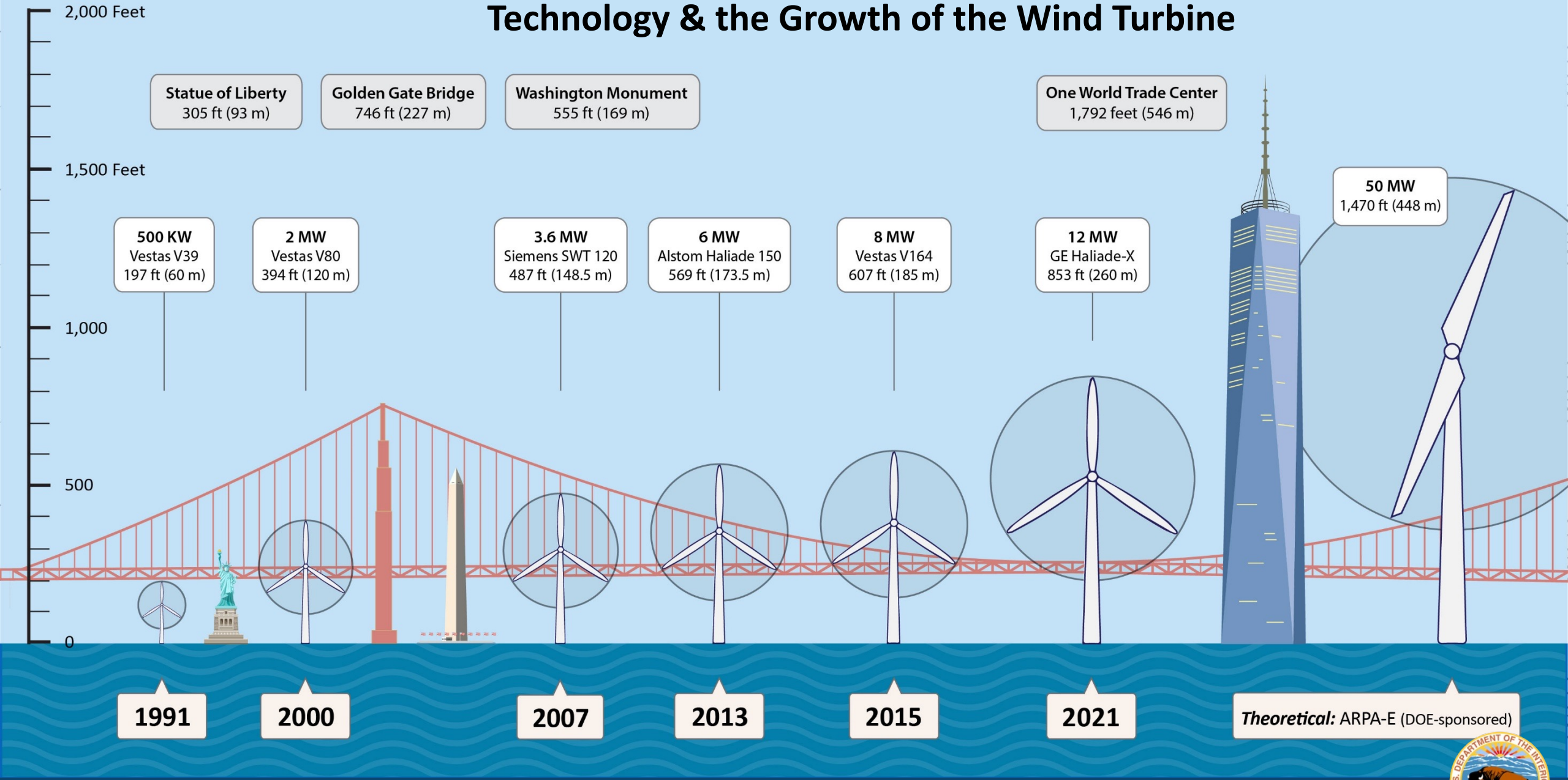
California	100% by 2045	5,000	unspecified
Hawaii	100% by 2045	unspecified	unspecified
Oregon	50% by 2040	3,000	unspecified
PAC TOTAL	--	8,000 MW	--

Gulf of Mexico OCS Renewable Energy: Renewable Goals

Louisiana	80% by 2050	5,000	unspecified
GRAND TOTAL	--	47,124 MW	23,829 MW



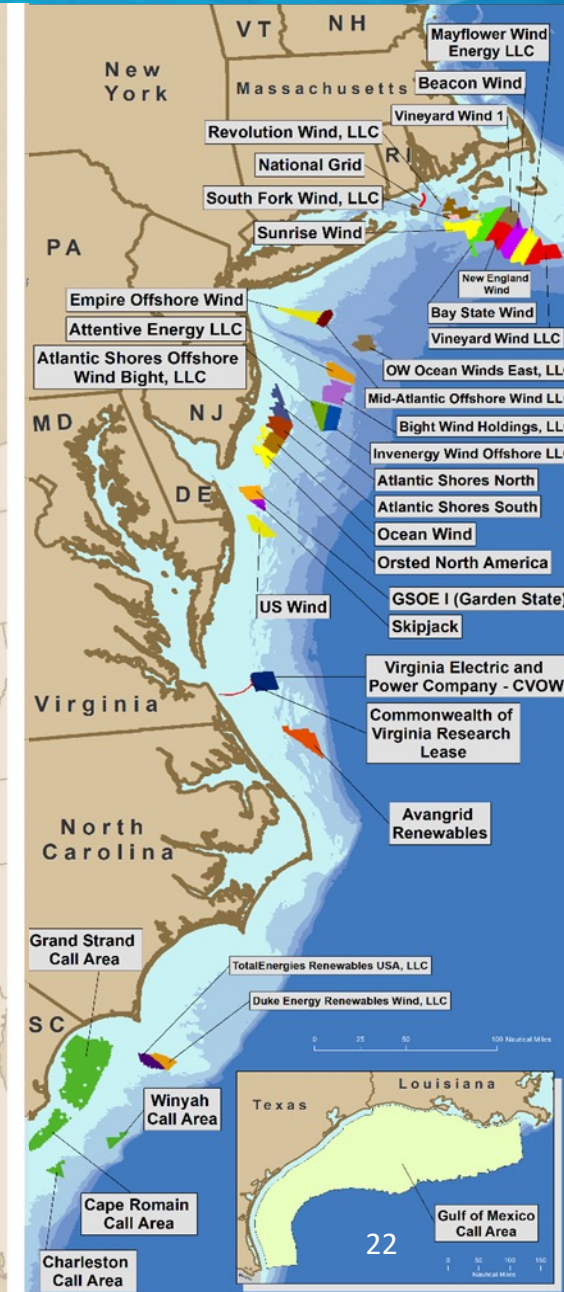
Technology & the Growth of the Wind Turbine



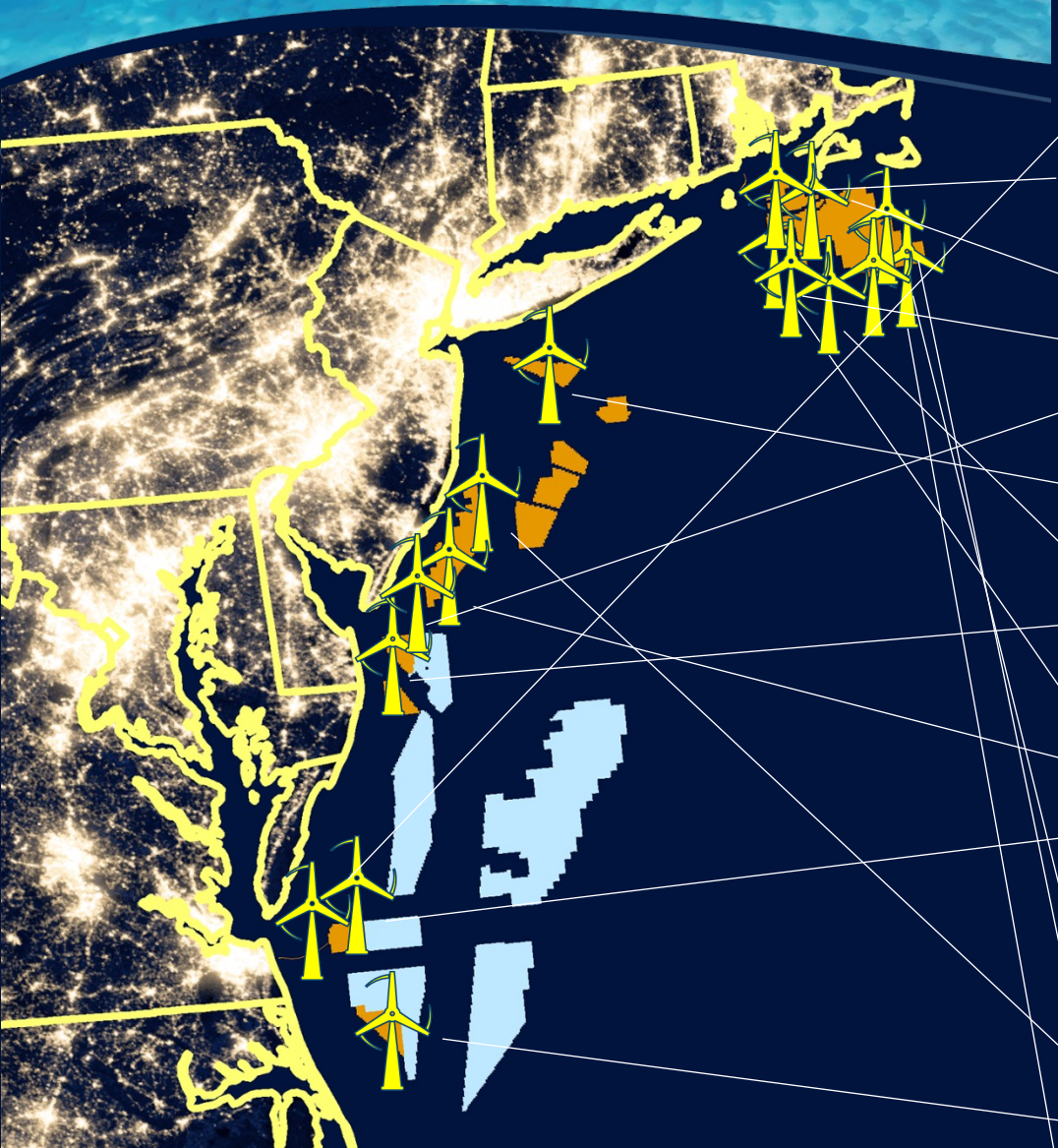
Theoretical: ARPA-E (DOE-sponsored)



Renewable Energy Program by the Numbers



Atlantic OCS Renewable Energy: “Projects in the Pipeline”



	Project	Company
2020	Coastal Virginia Offshore Wind Pilot	
	South Fork	
	Vineyard Wind I	
	Revolution Wind	
	Skipjack Windfarm	
	Empire Wind	
	Bay State Wind	
	U.S. Wind	
	Sunrise Wind	
	Ocean Wind	
	Coastal Virginia Offshore Wind Commercial	
	New England Wind	
	Mayflower Wind	
	Atlantic Shores	
Kitty Hawk		
2030	OCS-A 0522	

Renewable Energy Project: Rhode Island / Massachusetts

South Fork (OCS-A 0517)

- Lease Issued: Oct 1, 2013
- Current Stage: **Installation**
- Next Milestone: Facility Design Report (FDR) Fabrication & Installation Report (FIR) Review
- Max # of WTG Locations: Up to 15
- Interconnection State: New York
- Power Purchase Agreement: NY, 133 MW
- Commissioning Date: 2023
- Lessee: South Fork Wind, LLC



Renewable Energy Project: Massachusetts

Vineyard Wind I (OCS-A 0501)

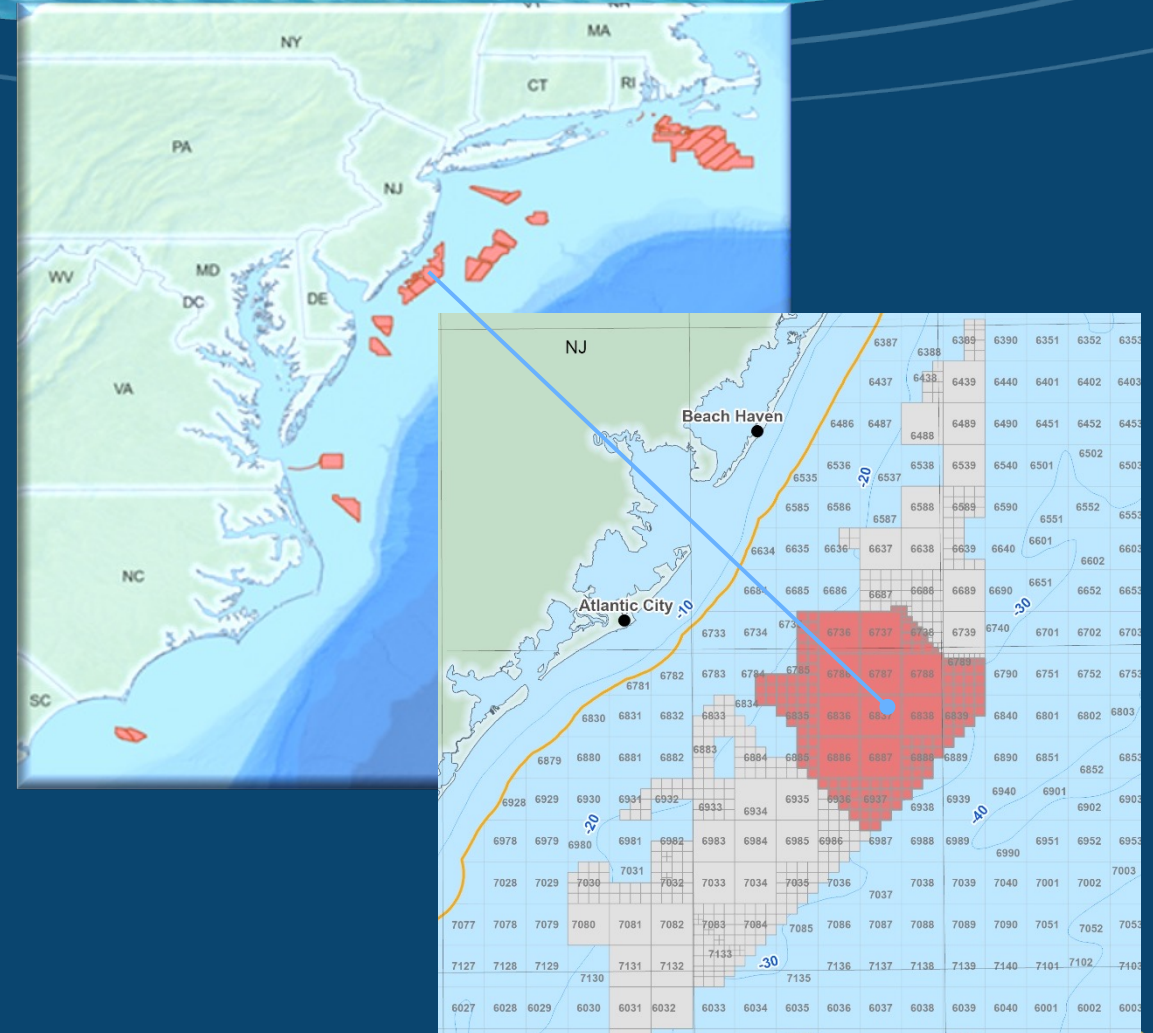
- Lease Issued: April 1, 2015
- Current Stage: **Installation**
- Next Milestone: Facility Design Report (FDR)
Fabrication & Installation Report (FIR) Review
- Max # of WTG Locations: 62
- Interconnection State: Massachusetts
- Power Purchase Agreement: MA, 800 MW
- Commissioning Date: 2024
- Lessee: Vineyard Wind 1, LLC



Renewable Energy Project: New Jersey

Atlantic Shores South (OCS-A 0499)

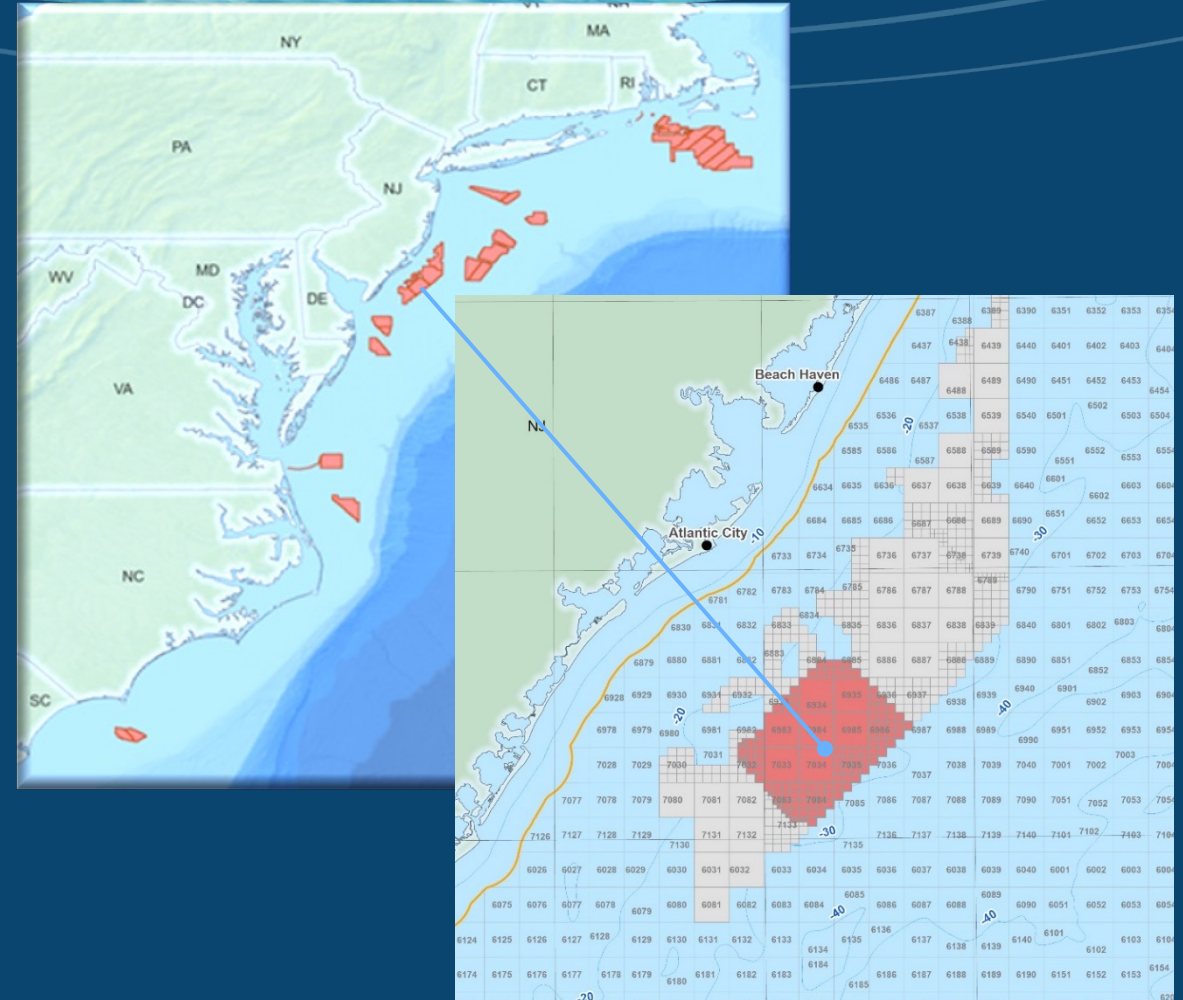
- Lease Issued March 1, 2016
- Current Stage: **Construction and Operations Plan (COP)**
- Next Milestone Draft Environmental Impact Statement (DEIS)
- Max # of WTG Locations: 200
- Interconnection State: New Jersey
- Power Purchase Agreement: NJ, 1,510 MW
- Commissioning Date: 2026 (Proj. 1); 2027 (Proj. 2)
- Lessee: Atlantic Shores Offshore Wind, LLC



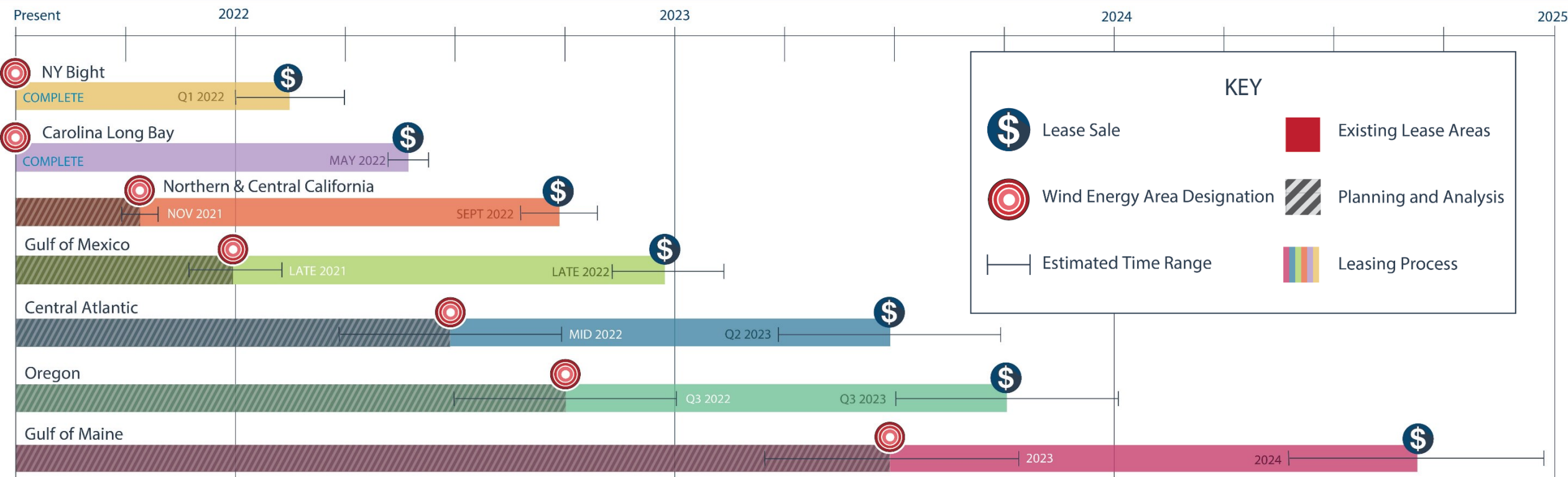
Renewable Energy Project: New Jersey

Ocean Wind (OCS-A 0498)

- Lease Issued: March 1, 2016
- Current Stage: **Construction and Operations Plan (COP)**
- Next Milestone: Final Environmental Impact Statement (FEIS)
- Max # of WTG Locations: 98
- Interconnection State: New Jersey
- Power Purchase Agreement: NJ, 1,100 MW
- Commissioning Date: 2026
- Lessee: Ocean Wind, LLC



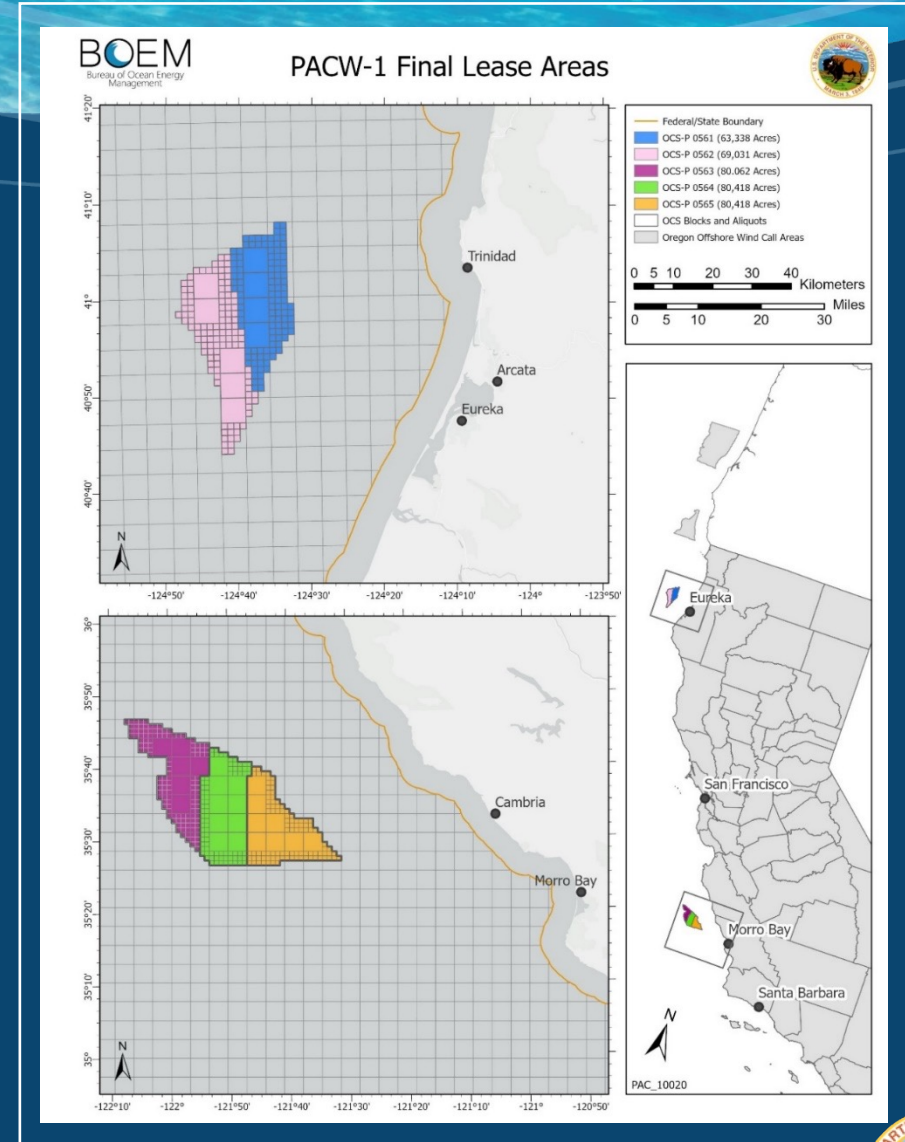
BOEM Offshore Wind Leasing Path Forward 2021-2025



Our path forward will help achieve the first-ever **national offshore wind goal** to deploy **30 gigawatts of offshore wind by 2030**, which would support nearly **80,000 jobs**

Renewable Energy Leasing: California

- Proposed Sale Notice (PSN) published on May 31, 2022 for a 60-day comment period
- PSN identified 5 proposed lease areas
 - 2 areas offshore Eureka
 - 3 lease areas offshore Morro Bay
- Final Sale Notice (FSN) published in the Federal Register on Oct. 21, 2022
- Lease Auction scheduled for Dec. 6, 2022

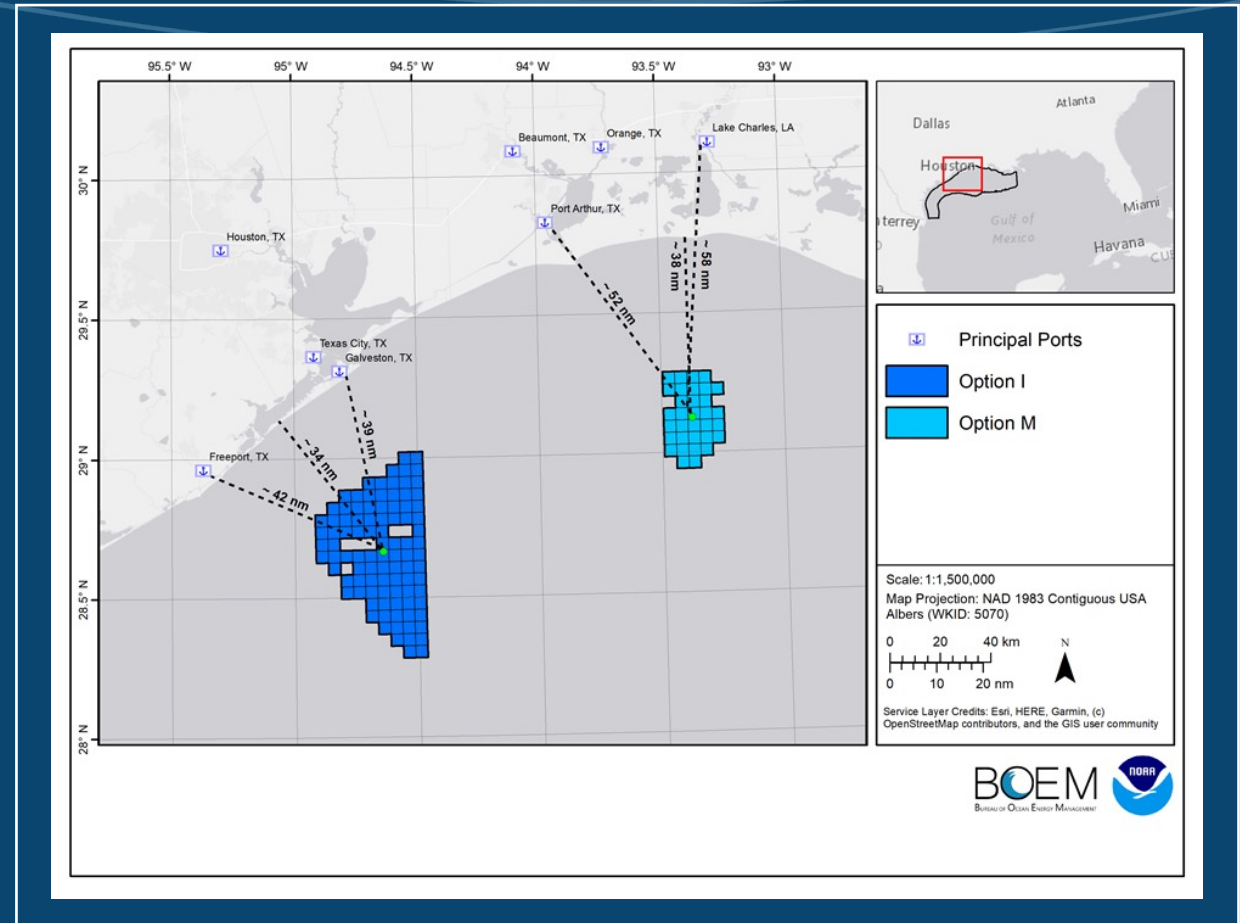


Renewable Energy Leasing: Gulf of Mexico

- BOEM published Call for Information and Nominations in the Federal Register on Nov. 1, 2021
- Comment Period for Call Closed Dec. 16, 2021
- Fisheries Summit Held Jan. 19 & 20, 2022
- 3rd Intergovernmental Renewable Task Force Meeting held on July 27, 2022
- Draft WEAs & Draft EA were announced on July 20, 2022. Comment period for both closed on Sept. 2, 2022.

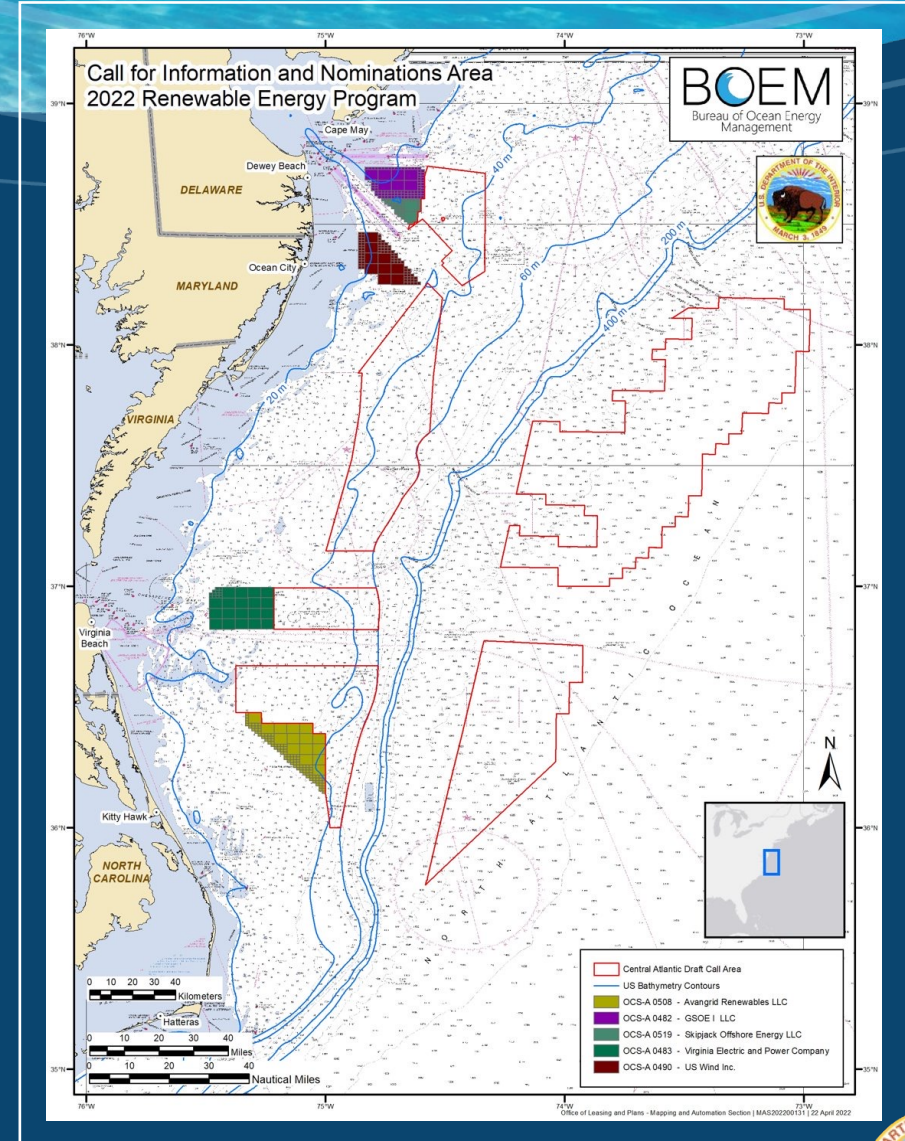
Next milestones:

- Proposed Sale Notice
- Lease Auction (2023)



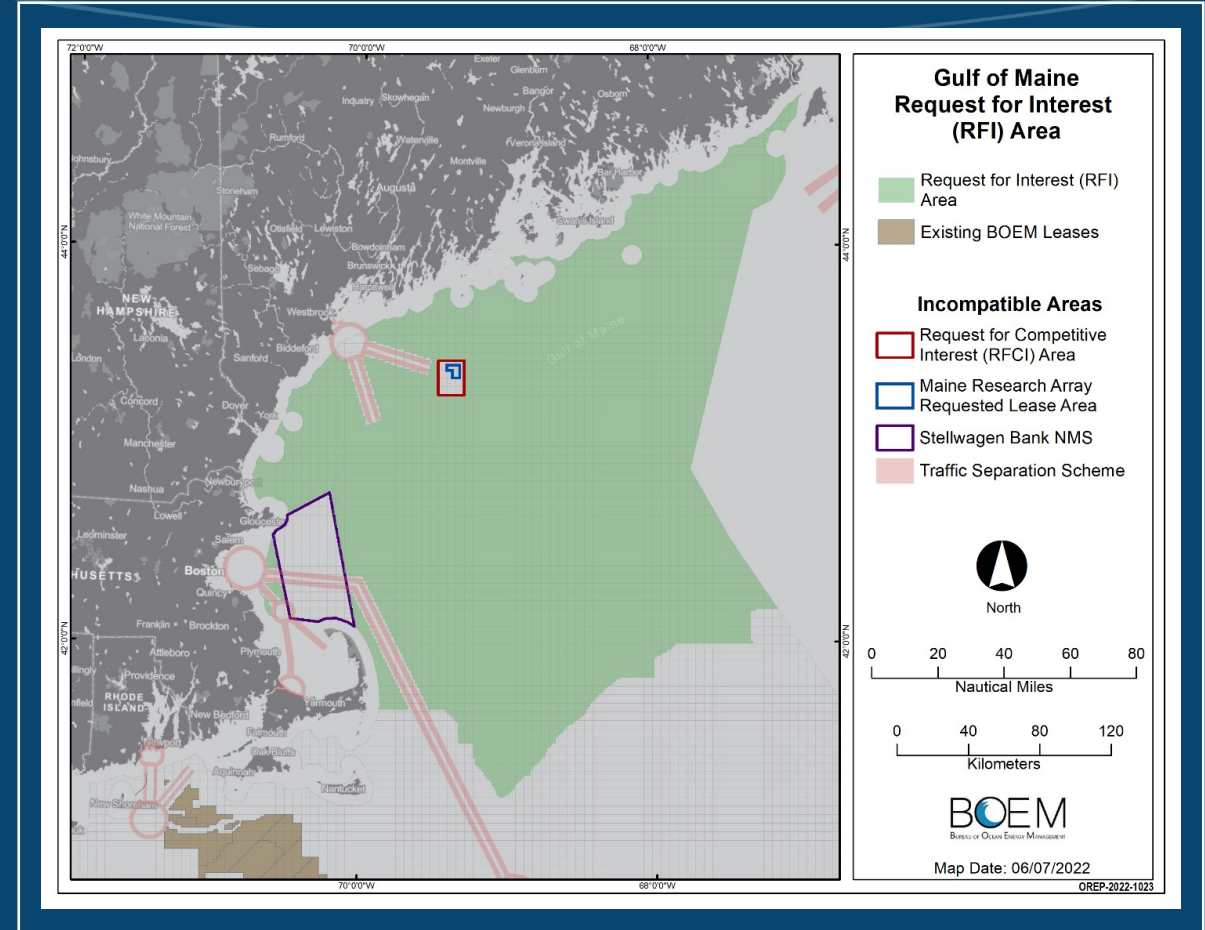
Renewable Energy Leasing: Central Atlantic

- Currently in planning phase to identify Wind Energy Areas
- Task Force meeting held Feb. 16, 2022
- Call for Information and Nominations published Apr. 29, 2022, for public comment
- Stakeholder engagement with Maritime industry, tribal governments, environmental NGOs, fishing industry, wind energy industry, state and federal agencies informed Call Area development
- BOEM working with NOAA to conduct marine spatial modeling that will inform Wind Energy Areas
- Draft Wind Energy Areas will be available for comment prior to finalizing



Renewable Energy Leasing: Gulf of Maine

- Task Force established December 2019; Task Force Meeting held May 19, 2022
- State of Maine application for research lease filed Oct. 1, 2021
 - Request for Competitive Interest (RFCI) published August 19, 2022
- Commercial Planning & Leasing:
 - Request for Interest (RFI) published August 19, 2022
 - Lease Sale in 2024



BOEM

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

BOEM.gov



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Time for Turbines

October 28, 2022

New Jersey is creating the Wind Institute for Innovation and Training



ACCELERATE DEVELOPMENT OF A
ROBUST AND DIVERSE OFFSHORE
WIND WORKFORCE



CHAMPION RESEARCH AND
INNOVATION THAT UNLOCKS
MARKET POTENTIAL

Wind Institute Programs Underway



WORKFORCE DEVELOPMENT & EDUCATION

- ▶ GWO Basic Safety & Sea Survival facility at Atlantic Cape Community College
- ▶ Stackable wind turbine tech training programs at Rowan College of South Jersey
- ▶ Subarc welding and marine coating programs at Gloucester County Institute Technology and Salem County Vocational Technical School
- ▶ OSW K-8 Activity Book and development of OSW curriculum resources
- ▶ OSW Workforce & Skills Development Grant Challenge to support new/expanded training programs



RESEARCH AND INNOVATION

- ▶ Feasibility study for flagship OSW research and testing facility
- ▶ Membership in National OSW R&D Consortium to support cutting-edge research
- ▶ Wind Institute Fellowship to support university student research
- ▶ Partnerships with Rutgers, Rowan, NJ Institute of Technology, and Montclair State University for offshore wind learning and research initiatives

Thank You!

For more information: www.njeda.com/wind_institute





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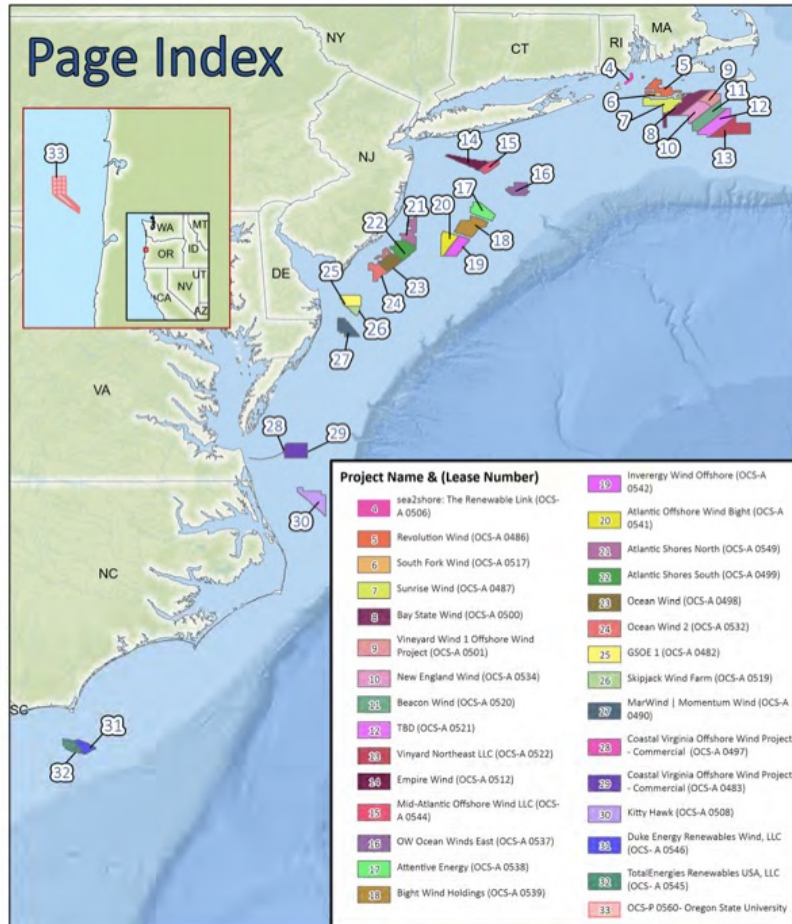


Special Initiative on
Offshore Wind

Offshore Wind Transmission

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October 28, 2022

Getting to 30G by 2030 will require transmission planning



- Coastal infrastructure constraints
- Limiting environmental impacts and impacts to existing ocean users
- Reducing cost and permitting risk

Source: BOEM' Map Book

New Jersey's approach to offshore wind transmission



- New Jersey announced they were pursuing the State Agreement Approach in January 2021
- First-of-it's-kind in the nation

Wednesday's decision by NJ Board of Public Utilities



New Jersey Board of Public Utilities Selects Offshore Wind Transmission Project Proposed by Mid-Atlantic Offshore Development and Jersey Central Power & Light Company





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