

BUREAU OF SAFETY AND ENVIRONMENTAL ENFORCEMENT

STATE OF THE RENEWABLE ENERGY PROGRAM WEBINAR

October 10, 2024

2:00-3:30 p.m. ET



OPENING REMARKS

Kathryn Kovacs, Deputy Assistant Secretary for Land and Minerals
Management Exercising the Delegated Authorities of the Director, BSEE



WEBINAR AGENDA



Time	Topic
10 minutes	Welcome and Opening Remarks <ul style="list-style-type: none">• Opening remarks• Agenda review and housekeeping
10 minutes	National Tribal Engagement Program Updates and National Renewable Energy Program Updates <ul style="list-style-type: none">• National level updates on the BSEE National Tribal Engagement Program and BSEE Renewable Energy Program
10 minutes	Regulatory Updates <ul style="list-style-type: none">• Review of the Modernization Rule and Safety Rule and implications for stakeholders and Tribal Nations, ANCSA Corporations, and the Native Hawaiian Community
45 minutes	Regional Updates <ul style="list-style-type: none">• Status updates on project reviews, construction, and operations to date and a lookahead at upcoming activities.
10 minutes	Research Highlights <ul style="list-style-type: none">• Overview of BSEE's research with DOE and other partners
5 minutes	Wrap Up and Closing Remarks <ul style="list-style-type: none">• Review of upcoming engagement opportunities and next steps• Closing remarks by BSEE
	Adjourn

NATIONAL TRIBAL ENGAGEMENT PROGRAM UPDATES

Bronia Ashford, Tribal Liaison Officer
BSEE National Tribal Engagement Program





BSEE'S TRIBAL ENGAGEMENT PROGRAM (NTEP)

Overview

- BSEE's National Tribal Engagement Program (NTEP) became fully staffed in October 2023.
- NTEP advances the Bureau's commitment to fulfill its trust relationship to consult with Tribal Nations, ANCSA Corporations, and the Native Hawaiian Community whenever BSEE plans or has actions with potential substantial direct effects.
- BSEE has developed national Tribal Coordination and Consultation policies and procedures to enhance our Bureau's Tribal engagement initiatives and meet our trust responsibilities.

Administrative Actions

- BSEE's Tribal Consultation Handbook (best practices document) was signed on December 27, 2023.
- Instructional Memorandum on Tribal Engagement for Renewable Energy Activities on the OCS was signed on October 27, 2023.



TRIBAL INTERESTS AND CONCERNS

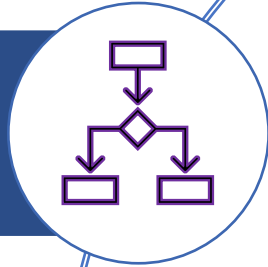
BSEE actions on the Outer Continental Shelf (OCS) could have Tribal Implications:

- There can be historical and cultural ties to areas where BSEE activities are proposed and conducted although they may no longer be physically located near the area.
- Those lands and waters contain cultural, natural, and economic resources of significance and value to Tribal Nations, Alaska Natives, and the Native Hawaiian Community.
- Sacred religious sites, burial sites, ancient submerged landforms, archaeological sites, wildlife, and sources of traditional Indigenous foods and medicines.
- Lands and waters lie within areas where Tribal Nations have retained the right to hunt, fish, and observe cultural traditions pursuant to ratified treaties and agreements with the United States.

BSEE'S COMMITMENT TO SOVEREIGN ENGAGEMENT



Consideration in decision making



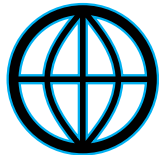
Upholding trust responsibilities

Respecting sovereignty



Understanding challenges

Honoring nation to nation, nation-to-sovereign, and nation to corporation relationships



Acknowledgement of cultural, historical and environmental significance



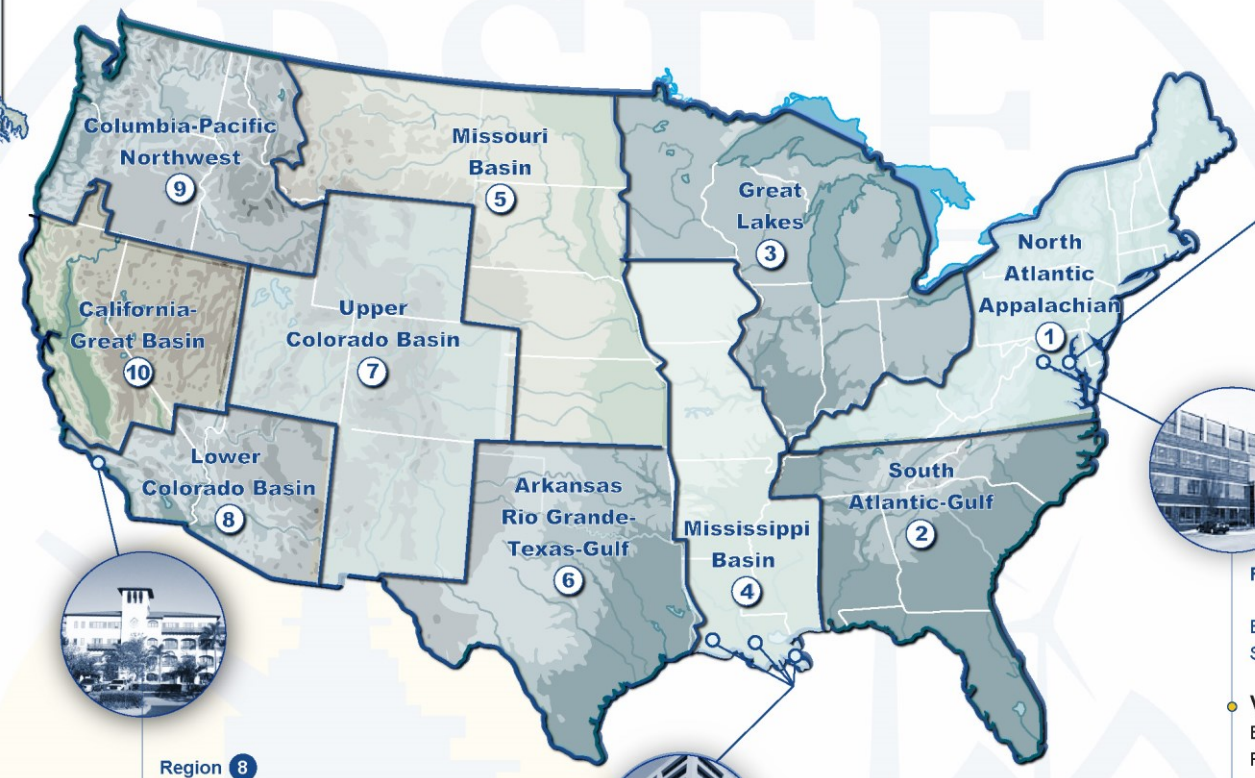
NTEP ACTIONS/ACTIVITIES

- Determining whether BSEE's planned actions may have substantial direct effects on Tribal Nations, ANCSA Corporations, and the Native Hawaiian Community.
- Facilitating, planning, and organizing meetings to discuss interests, concerns, and regulatory issues.
- Coordinating regional consultations and engagements.
- Participating in and representing BSEE in various Tribal/Indigenous working groups.
- Informing Tribal Nations, ANCSA Corporations, and the NHC of proposed rulemaking efforts.



BSEE Tribal Liaison Offices

within Department of the Interior Regions



Region 11
BSEE Alaska Region Office
Anchorage, AK
• **Jack Lorrigan,**
Alaska Regional Tribal Liaison
Region 11



Pacific Islands
• Guam
• Commonwealth of the Northern Mariana Islands
• American Samoa



Region 8
BSEE Pacific Region Office
Camarillo, CA
• **Sara Guiltinan,**
Pacific Regional Tribal Liaison
Region 8, 9, 10, 12



Region 4
BSEE Gulf of Mexico Region Office
District Offices: Houma, Lafayette,
Lake Charles and New Orleans, LA
• **Doug Jones,**
Gulf of Mexico Regional Tribal Liaison
Region 2, 4, 6



Region 1
BSEE HQ Offices
Washington, D.C.
• **Bronia Ashford,**
Tribal Liaison Officer
• **Amanda Garrison,**
Tribal Coordinator
All Regions



Region 1
BSEE HQ Offices
Sterling, VA
• **Vacant,**
Eastern Seaboard Regional Tribal Liaison
Region 1, 2



NATIONAL RENEWABLE ENERGY PROGRAM UPDATES

Michaela Noble, Director Renewable Energy Regulatory Compliance



BSEE RENEWABLE ENERGY PROGRAM KEY PRIORITIES



BSEE is well-poised to execute our mission in the expanded space of offshore renewable energy given the program’s current direction, focusing on the various rules, policies, research, and engagement needed to maintain our program building momentum.

BSEE’s top priority is to ensure the safety of American workers as more of them enter the offshore wind industry. We ensure this by the:

1. Promotion of safe and environmentally responsible facility design, fabrication, installation, operation, and decommissioning;
2. rigorous and timely technical review of industry submittals;
3. implement a performance-based safety approach through a focus on Safety Management Systems; and
4. ensuring compliance with all applicable laws, regulations, and plan approvals.



NATIONAL PROGRAM FOCUS AREAS

- **National Policy Regulations:** Working to establish renewable energy policy and standard operating procedures from a national level to ensure consistent implementation across all the regions.
- **Engagement:** Engage with Tribes, the Native Hawaiian Community, ANCSA Corporations, stakeholders, international counterparts, federal agencies and standard development organizations to define, establish and strengthen policies and procedures that arise from sound science and evidence-based information.
- **Standards Development:** Working with standards development organizations to ensure better compatibility between industry and regulatory expectations.
- **Data Management:** Data and document management has become a key BSEE focus due to the large volume of information coming in from the operators. We are working to establish a bureau-wide renewable energy data system.
- **Research:** Funds and collaborates in renewable research and technical analysis to inform decision making and improve safety and standardization.



INTERAGENCY COOPERATION

- United States Coast Guard
 - Memorandums of Agreement/Understanding
 - New Atlantic Coast alliances
- Occupational Safety and Health Administration
- DOI Agencies
 - BOEM, FWS, other
- U.S. Army Corps of Engineers
- Department of Energy
 - Information sharing
 - Policy development cooperation
- National Oceanic and Atmospheric Administration
 - Memorandums of Agreement/Understanding
 - BSEE enforcement of terms and conditions and permits
- Committee on the Marine Transportation System
 - Federal maritime policy coordinating committee consisting of fourteen Cabinet Secretaries



Offshore Wind by the Numbers

Active Commercial Offshore Wind Leases Issued:

37

Atlantic Commercial Offshore Wind Leases:

31

Pacific Commercial Offshore Wind Leases:

5

GOMR Commercial Offshore Wind Leases:

1

Active Research Offshore Wind Leases Issued:

3

Construction & Operations Plans (COPs) Submitted:

19

Records of Decision/COPs approved:

10

Windfarms in Offshore Construction:

5

Windfarms in Commercial Operations:

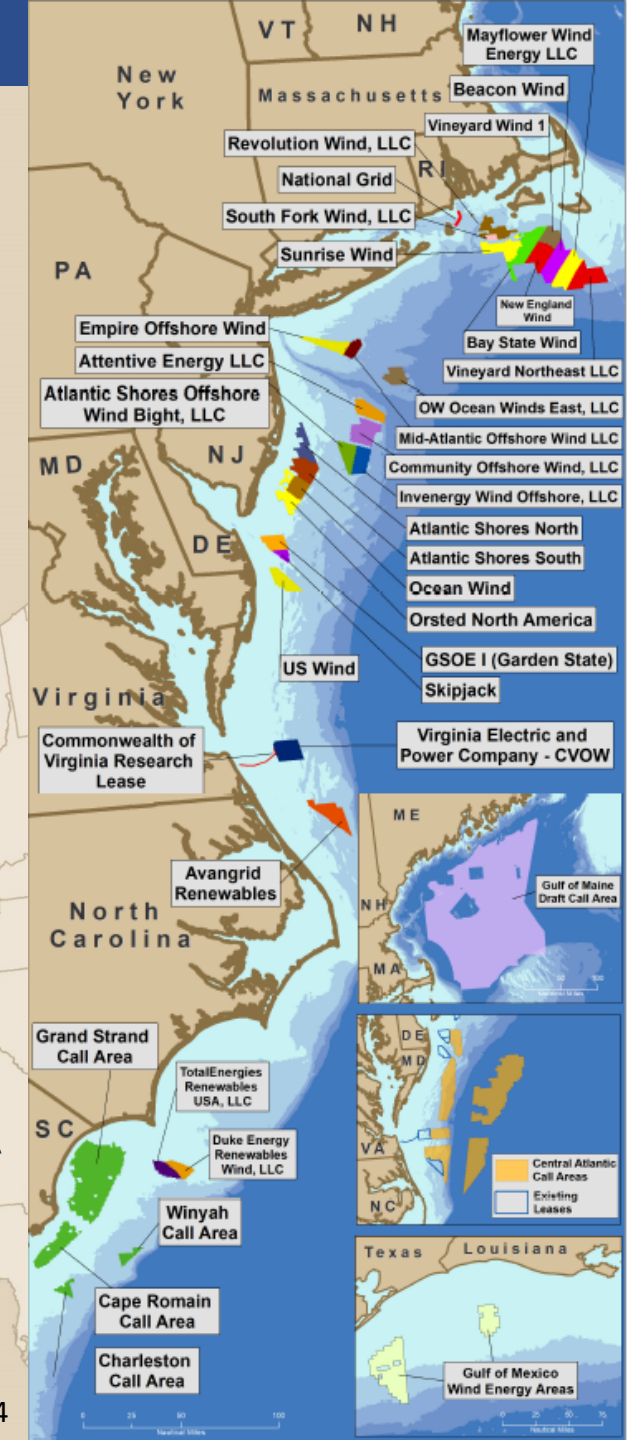
3

Current Electrical Production:

274MW*

Capacity of Windfarms Installed or Under Construction:

5.9GW



*Includes Commercial and Research Leases as well as turbines currently on hold

As of 09/30/2024

REGULATORY UPDATES

Joan Hall, Renewable Energy Technical Lead, Renewable Energy and Regulatory Compliance

Christy Lan, Senior Technical Advisor for Renewable Energy



BSEE'S RENEWABLE ENERGY REGULATORY OVERVIEW



- Outer Continental Shelf Lands Act (OSCLA): Amended in 2005, “The Secretary [of the Interior] shall ensure that any activity” on a renewable energy lease “is carried out in a manner that provides for-- safety[.]”
- Prior to 2022, BOEM oversaw siting, leasing, permitting, and safety and environmental oversight of renewable energy. However, BSEE did assist BOEM with its renewable energy activities.
- On January 31, 2023 BOEM/BSEE “Split Rule” formally transferred certain safety and environmental oversight, compliance, and enforcement regulations for the Department’s Offshore Renewable Energy Program from BOEM (30 CFR 585) to BSEE (30 CFR 285), with no substantive changes.
- Substantive changes to BOEM and BSEE’s renewable energy regulations, the “Modernization Rule” were made and went into effect July 15, 2024. BSEE is implementing Modernization Rule provisions through continued project oversight and policy work.

BOEM/BSEE KEY OFFSHORE WIND AUTHORITIES



BOEM	BSEE
<ul style="list-style-type: none"> • Issuing and managing leases • NEPA analyses 	<ul style="list-style-type: none"> • Operational safety and environmental protection
<ul style="list-style-type: none"> • Site Assessment Plan • Construction and Operations Plan • General Activities Plan 	<ul style="list-style-type: none"> • Safety Management System • Facility Design Report • Fabrication and Installation Report • Oil Spill Response Plan • Emergency Response Plan
<ul style="list-style-type: none"> • Financial Assurances 	<ul style="list-style-type: none"> • Decommissioning
<ul style="list-style-type: none"> • Enforcing BOEM regulations 	<ul style="list-style-type: none"> • Enforcing BSEE regulations



ENFORCEMENT OPTIONS

For failure to comply with 30 C.F.R. § 285

- Issues **Notices of Non-Compliance** (Violation)
 - Various Enforcement Levels
- **Civil penalties** (fines on a per day basis)
- Issue a **cessation order**: Cease all activities on the lease
- Order **lease suspension**: Generally would be used to comply with judicial decrees.
- Recommend **lease cancellation** to the Secretary of the Department of Interior:
Revocation of the lease



OVERVIEW OF BOEM & BSEE'S ROLES FOR OFFSHORE RENEWABLE ENERGY



[Planning & Analysis]

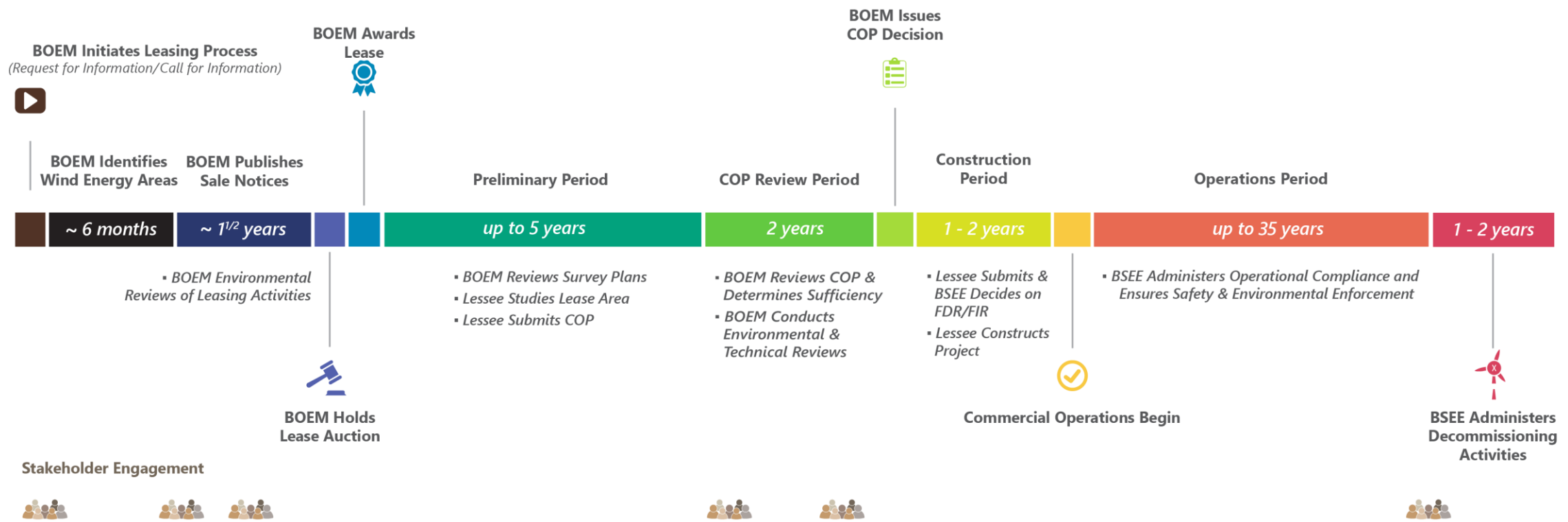
[Leasing]

[Site Assessment & Characterization]

[Construction]

[Operations & Maintenance]

[Decommission]





MODERNIZATION RULE UPDATES

Commercial Operations

- The conflicting references were removed and requirements for when commercial operations may commence were consolidated in § 285.637.

Safety Management System

- BSEE is incentivizing lessees and grant holders to obtain a safety management certification from recognized accreditation organizations.
- BSEE made updates to ensure applicability of an SMS to all OCS activities undertaken pursuant to a lease, from site assessment through decommissioning.
- BSEE made additions for data collection:
 - Annual data reports to be submitted
 - SMS audits submitted to BSEE every 3 years



MODERNIZATION RULE UPDATES

FACILITY DESIGN REPORT (FDR) AND FABRICATION AND INSTALLATION REPORT (FIR)

- FDR/FIR Review Period
 - The FDR and FIR review period is 60 business days.
- Completeness Check
 - BSEE has 20-business days to conduct a completeness review and deem FDRs and FIRs submitted before the 60-business day review time starts.
- Separation of FDR/FIR into Integrated Asset Packages
 - Lessees may submit a FDR and FIR for each integrated asset package (e.g. WTG, substation, array cable, export cable, seabed preparation).
 - Each package must be complete and include an explanation of how the integrated asset packages will function together effectively.



MODERNIZATION RULE UPDATES

FDR AND FIR, CONT.

- Submittal of FDR/FIR
 - May submit the FDR and FIR before or after COP approval.
- Procurement and Fabrication
 - You may procure commercially available and type-certified components and begin fabrication activities that do not take place on the OCS prior to submittal of the FDR and FIR.
- Critical Safety Systems and Equipment
 - Critical safety systems and equipment are now required to be addressed in the FDR, FIR, project modification and repair reports, and have CVA oversight.
- Deferral of Geotechnical Surveys
 - In situ, site specific geotechnical surveys have been deferred from the COP to the FDR



MODERNIZATION RULE UPDATES

Certified Verification Agent (CVA)

- BSEE is expanding the role of the certified verification agents (CVA) to include verification of the design and commissioning of the critical safety systems.
- BSEE is allowing Lessees to nominate multiple CVAs for different components if there is an overall project CVA to ensure consistency.
- The CVA may be nominated before or after COP submittal. The nomination must occur before the CVA conducts verification activities.



MODERNIZATION RULE UPDATES

INSPECTIONS

- Lessees are required to develop and follow a self inspection plan.
 - Structural:
 - Must include type, extent, and frequency of inspections above and below water structures
 - Monitoring corrosion protection above and below water. corrosion and structural inspection plan.
 - Submit a report annually no later than November 1
- Onsite inspection of Critical Safety Systems at each of your facilities.
 - Develop and retain summary reports for all such inspections each calendar year and provide to BSEE upon request.
- BSEE may conduct both scheduled and unscheduled inspections.
- BSEE may inspect OCS facilities and any vessels engaged in activities authorized under § 285.820.

THE RULEMAKING PROCESS; SAFETY RULE NOTICE OF PROPOSED RULEMAKING (NPRM)



- NPRM for 1014-AA59 **Safety Rule**
 - Currently in the development and drafting stages
 - March 2024: BSEE [sent letters](#) to Tribes, ANCSA Corporations, and Native Hawaiian Organizations regarding our Regulatory Agenda, including Safety Rule
 - Target publication for the NPRM is the end of 2024.
- Regulatory Agenda – www.Reginfo.gov - Office of Information and Regulatory Affairs (OIRA)/Office of Management and Budget (OMB)
- Publication of NPRM in Federal Register **for Public Comment**
 - www.federalregister.gov
 - www.Regulations.gov - public comment portal

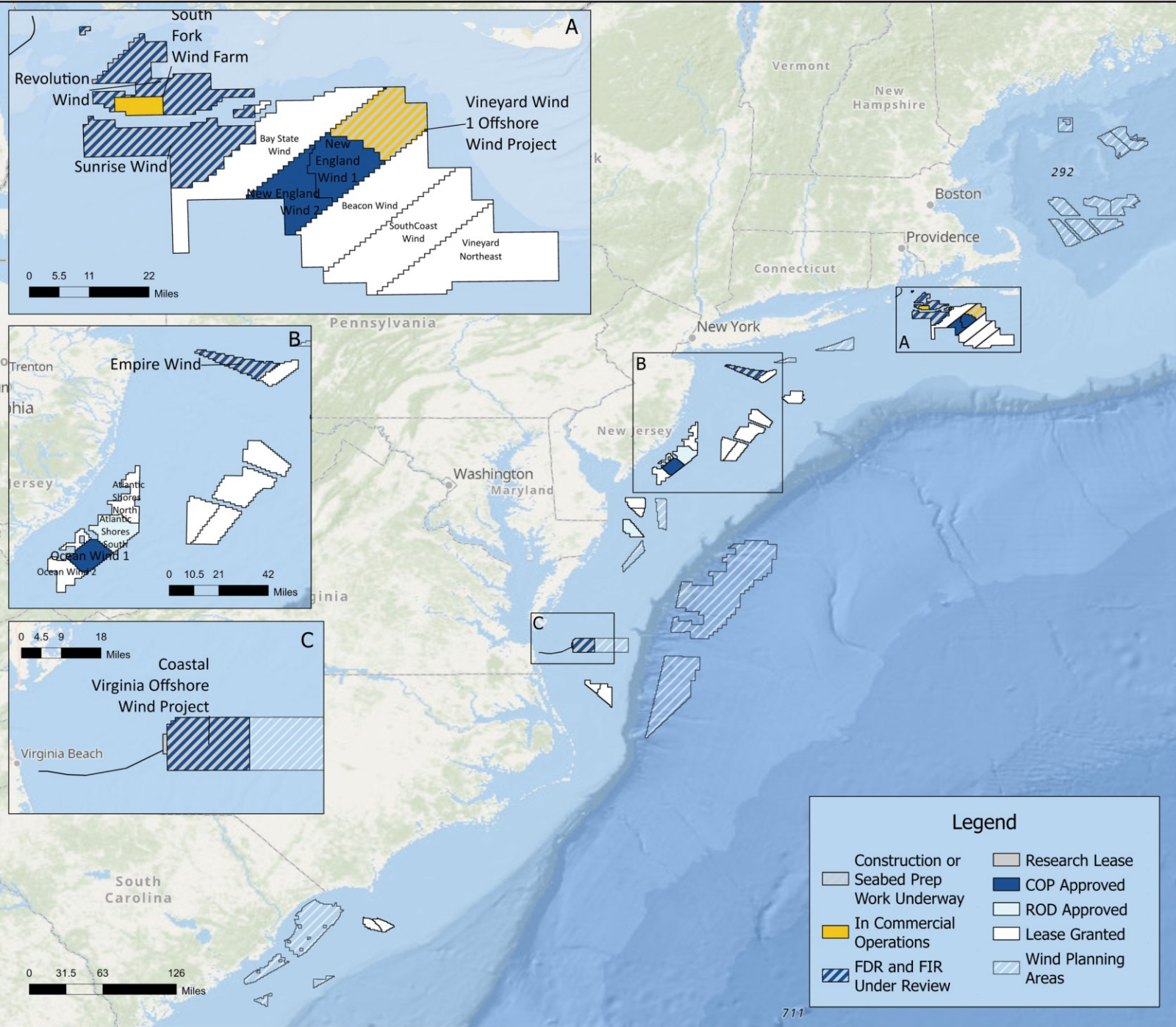
ATLANTIC REGIONAL UPDATES

Cheri Hunter, Director, BSEE Atlantic Renewable Energy Operations





ATLANTIC REGION RENEWABLE ENERGY LEASE ACTIVITY

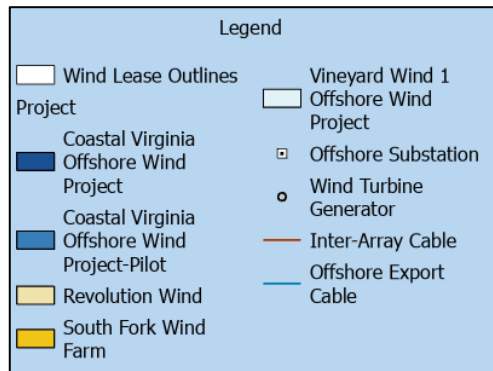
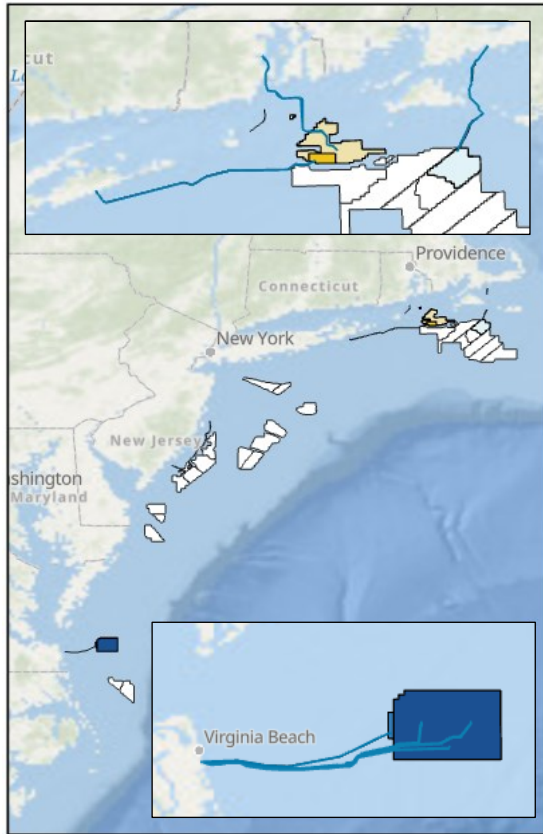


ATL Lease Activity*	#
Leases Granted	31
Record of Decision/COP Approved	10
Research Leases	2
Projects with FDR and FIRs Under Review	4
Construction or Seabed Prep Work Underway	5
In Commercial Operations	2
Current Electrical Production	144 MW
Capacity of Windfarms under Construction	5.9 GW

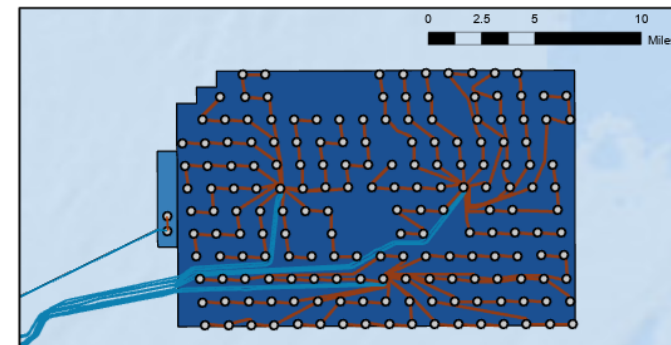
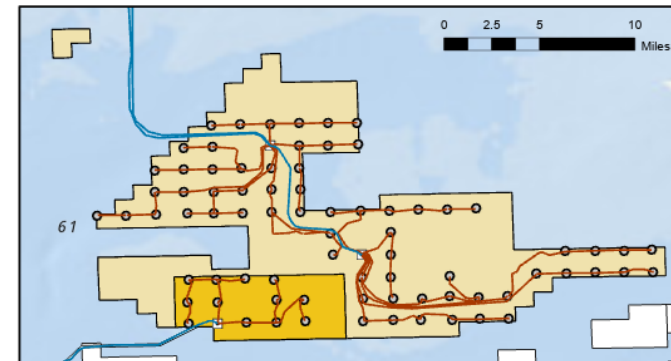
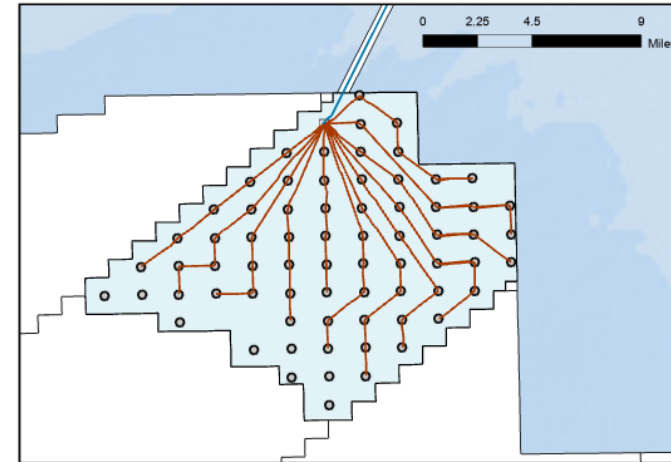
*Data as of October 1, 2024

ATLANTIC REGION – RENEWABLE ENERGY BY THE NUMBERS

PROJECTS UNDER CONSTRUCTION & IN COMMERCIAL OPERATIONS



Atlantic OSW Installation Totals*	#
Foundations	193
Monopiles	192
Jackets	1
WTGs	42
OSS	2
Array Cables	59
Export Cables	5
Turbines in Operation	14



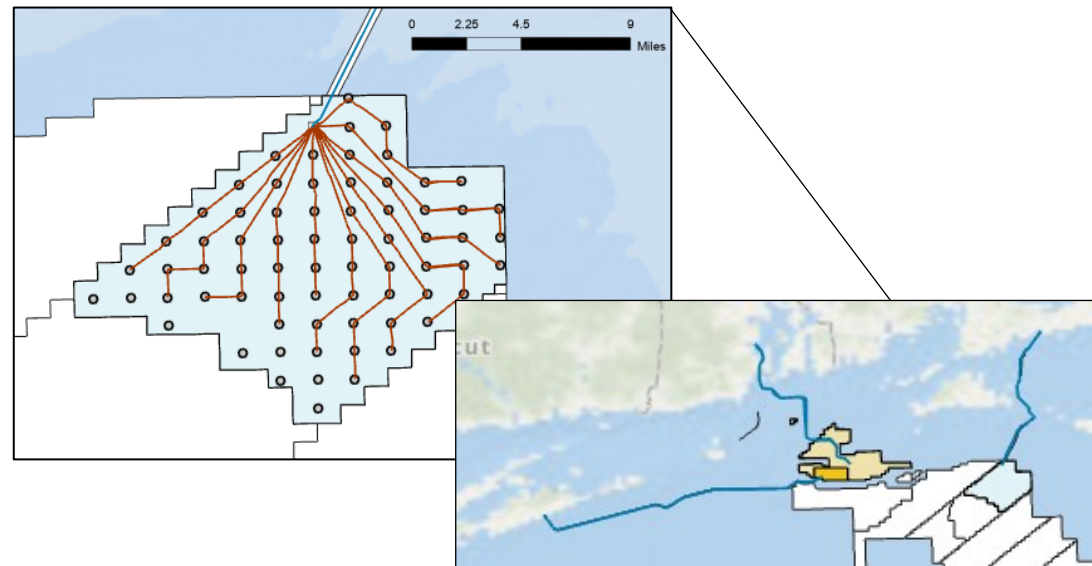
*Data as of October 1, 2024



VINEYARD WIND 1 – BLADE INCIDENT

During commissioning procedures on July 13, 2024, there was a blade failure on the Vineyard Wind 1 wind farm.

- The blade collapsed, resulting in debris on the deck structure and in the water.
- BSEE immediately deployed technical staff to New Bedford, MA.
- BSEE-issued Suspension Order & Preservation Order
- USCG Safety Exclusion Zone
- BSEE REN OPS personnel on-site for several weeks following incident
 - BSEE-led independent investigation and assessments
 - Overseeing blade material testing, debris recovery, blade repair efforts
- BSEE is examining improvements in:
 - Blade inspection expectations.
 - Marine debris response procedure expectations for major debris events.





ROUTINE SAFETY INSPECTIONS

In accordance with 30 C.F.R. § 285.820, BSEE has conducted several scheduled safety inspections. As per federal regulations, BSEE may inspect:

- OCS facilities.
- Any vessels engaged in activities authorized under 30 C.F.R. 285.

The purpose of BSEE inspections is to:

- Verify that activities are being conducted in accordance with federal law and regulations, and approved plans.
- Determine whether proper safety equipment has been installed and is operating properly according to the project's SMS.



HURRICANES & SEVERE STORMS PREPARATION & RESPONSE



Hurricane Henri, as viewed by NOAA's GOES EAST satellite on August 21, 2021, prior to making landfall. (NOAA)

- *Preparation:*
 - Communication with lease holders to outline BSEE expectations for both pre- and post-storm response.
 - FDR review – assurance that design is sufficient for expected environmental conditions.
 - Post-storm monitoring plans
 - Required prior to construction.
- *Response:*
 - BSEE monitors storm extent and defines area of impact.
 - BSEE reviews documentation of post-storm inspections.



ENVIRONMENTAL COMPLIANCE

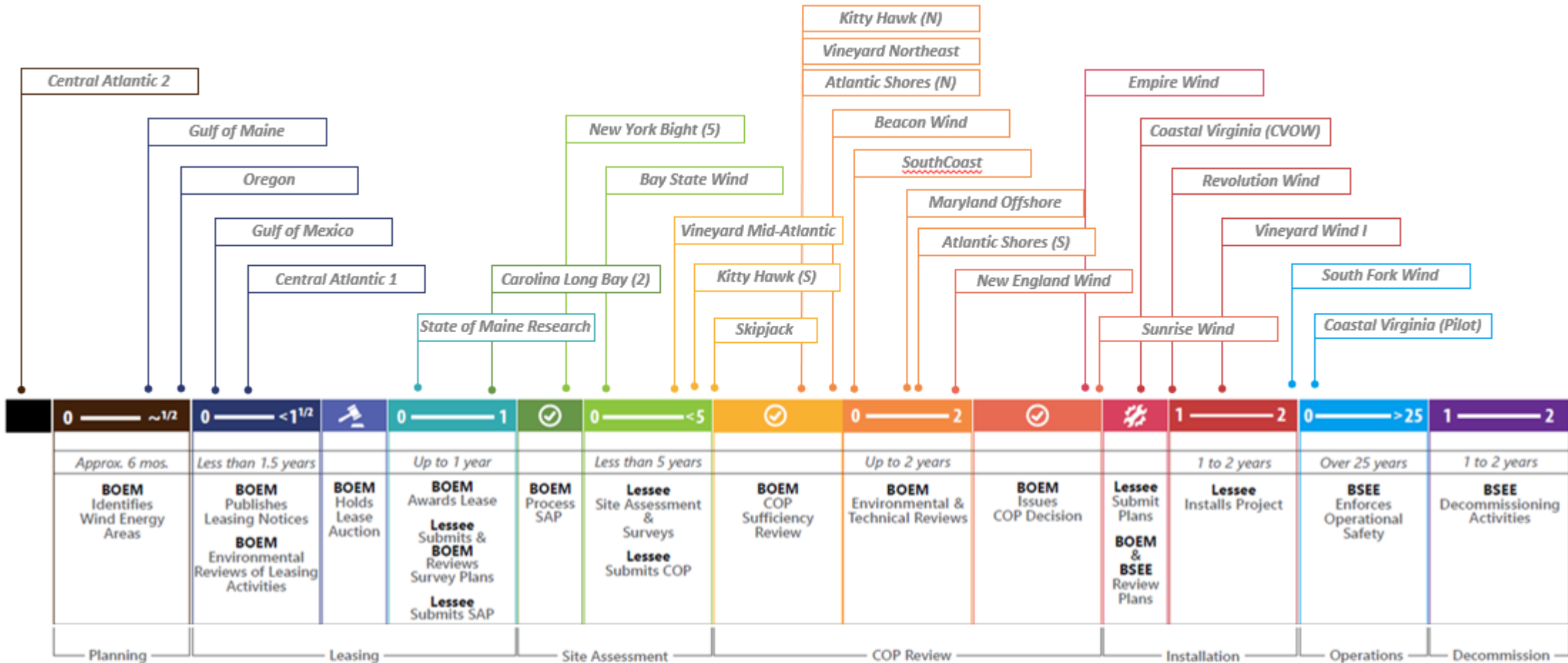
- **Provide expertise and input** on COP reviews (NEPA, ESA Section 7 consultation, EFH and other consultations).
- Collaborate with BOEM, NMFS, USFWS, USCG, and USACE to develop COP terms and conditions to ensure:
 - Mitigation and monitoring **adequately address** safety and environmental protections.
 - **Enforceability** throughout Conditions of COP Approval.
- Review post-COP plans and FDR and FIR documents for consistency with environmental analyses.
- Coordinate with BOEM and NMFS on sound field verification report reviews and providing instructions to lessees on operational changes (e.g. increasing bubble curtain pressure, expanding monitoring zone).
- Ensure compliance with requirements.
- Carry out enforcement, if necessary.
 - Issue notices of non-compliance (NONC) when non-compliance is identified.
 - Review corrective actions implemented by lessees to return to compliance.





LOOKING AHEAD

Upcoming Atlantic Region Projects

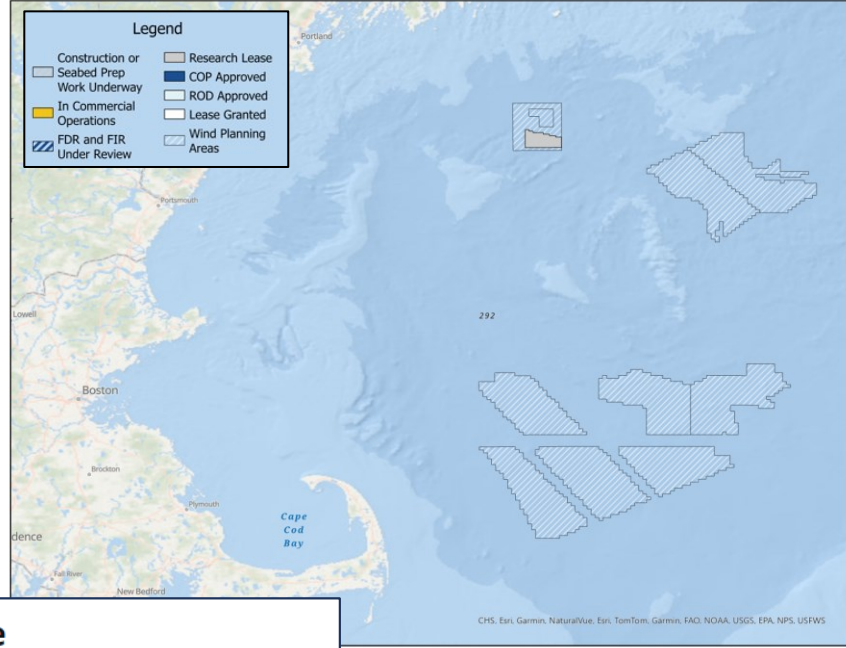




LOOKING AHEAD

Gulf of Maine

- Research & Commercial Leases



BOEM Issues Offshore Wind Research Lease to State of Maine

08/19/2024 Washington, DC

Contact(s)
Alison Ferris
(202) 230-3849

Today, the Bureau of Ocean Energy Management (BOEM) announced the execution of the nation's first floating offshore wind energy research lease. The lease area covers a little under 15,000 acres located 28 nautical miles offshore Maine on the U.S. Outer Continental Shelf and could allow for the deployment of up to 12 floating offshore wind turbines capable of generating up to 144 megawatts of renewable energy.

BOEM Finalizes Environmental Review of Gulf of Maine Offshore Wind Commercial Leasing

Area could produce 15 GW of clean, renewable energy, enough to supply power to more than five million homes.

09/06/2024 Washington, DC

Contact(s)
Alison Ferris
(202) 230-3849

In support of the Biden-Harris administration's goals for deploying 30 gigawatts (GW) of offshore wind energy capacity by 2030 and 15 GW of floating offshore wind energy capacity by 2035, the Bureau of Ocean Energy Management (BOEM) today announced the availability of its final Environmental Assessment (EA) of the Wind Energy Area (WEA) located in the U.S. Gulf of Maine.



ATLANTIC TRIBAL ENGAGEMENT UPDATES

- Continued coordination with BOEM
- Collaboration with Industry on Tribal concerns/issues
 - Vineyard Wind
 - GE Vernova
- Tribal Notifications
 - Vineyard Wind 1 Incident
 - Government Initiated Unannounced Exercise (GIUE)

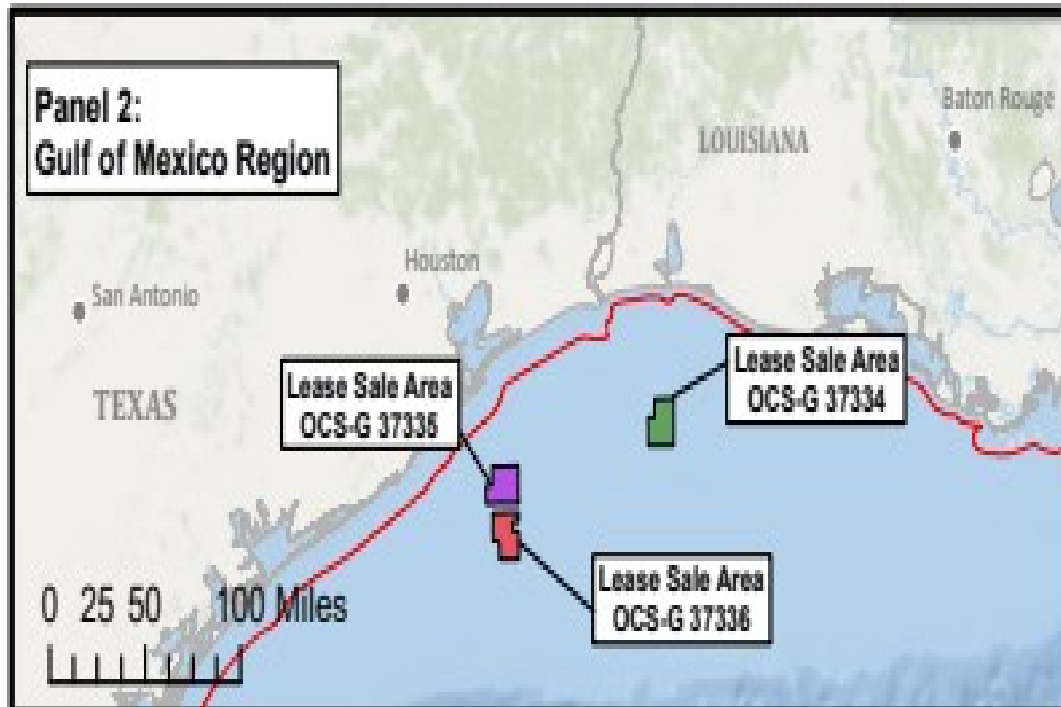
GULF OF MEXICO REGIONAL UPDATES

Michaela Noble, Director, BSEE Renewable Energy Regulatory
Compliance



OCS-G37334

RWE OFFSHORE US GULF, LLC



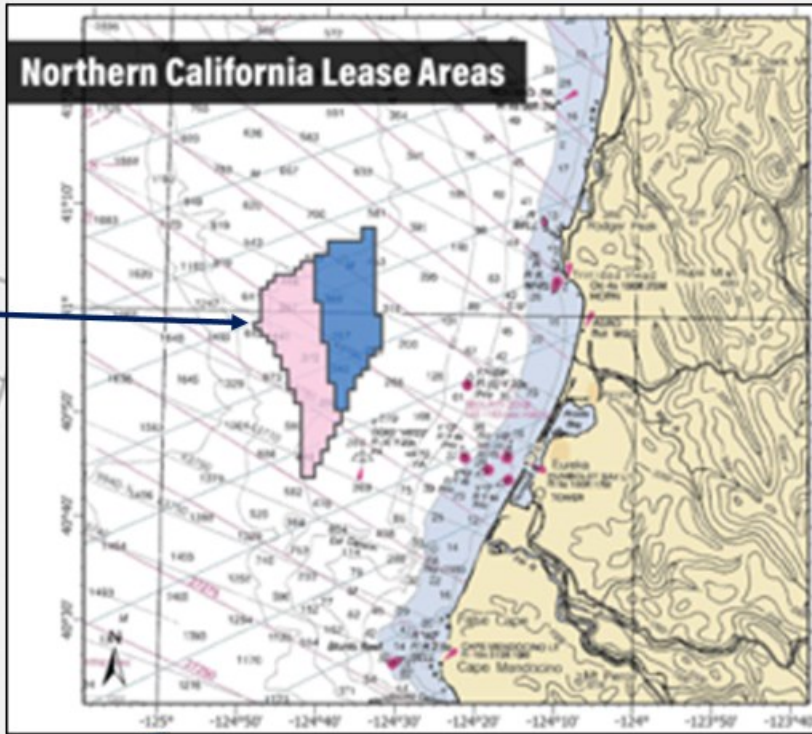
- Selection made for the new OCS GOM Regional Wind Project Coordinator
- Continue to developed the process and procedure for the regional reviews
- Development of the Inspection protocol
- Preparation for the 1-, 3-, and 5-year plans to meet the needs for RWE Offshore US Gulf, LLC proposal

PACIFIC REGIONAL UPDATES

Bobby Kurtz, Regional Supervisor, BSEE Regional Operations



Pacific Region – Offshore Wind Updates



Lease	Leaseholder	Project Name	Lease Acres	WD Range (ft)	Distance from shore	MW	Est. Homes Powered	Lease Sale Date	Sale Price	Lease Effective Date	Length of Lease
OCS-P0561	RWE Offshore Wind Holdings, LLC	Canopy Offshore Wind Farm	63,338	1772-3346	20 miles	1600	640,000	2022-12-07	\$157,700,000	2023-06-01	33 years
OCS-P0562	California North Floating LLC	California North Floating	69,031	2822-5315	25 miles	2000	1,000,000	2022-12-07	\$173,800,000	2023-06-01	33 years
OCS-P0563	Equinor Wind US LLC	Atlas Wind	80,062	3511-4954	33 miles	2000	1,700,000	2022-12-07	\$130,000,000	2023-06-01	33 years
OCS-P0564	Golden State Wind LLC	Golden State Wind	80,418	3182-5184	22 miles	2000	900,000	2022-12-07	\$150,300,000	2023-06-01	33 years
OCS-P0565	Invenergy California Offshore LLC	Even Keel Wind	80,418	2986-4035	20 miles	2000	750,000	2022-12-07	\$145,300,000	2023-06-01	33 years

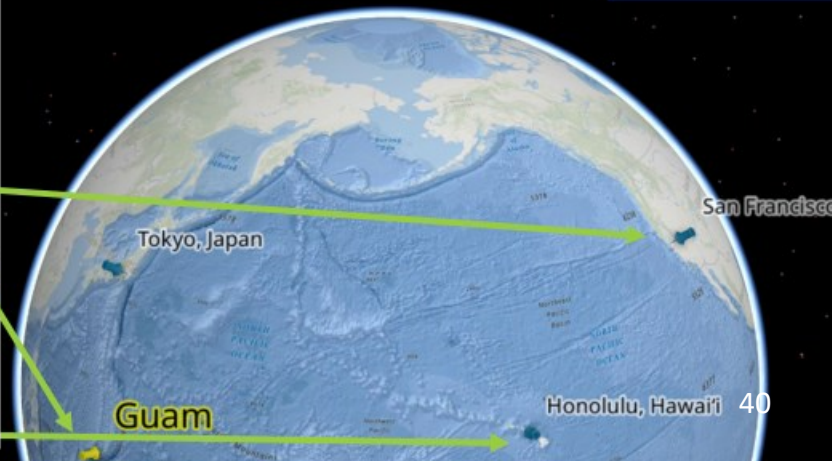
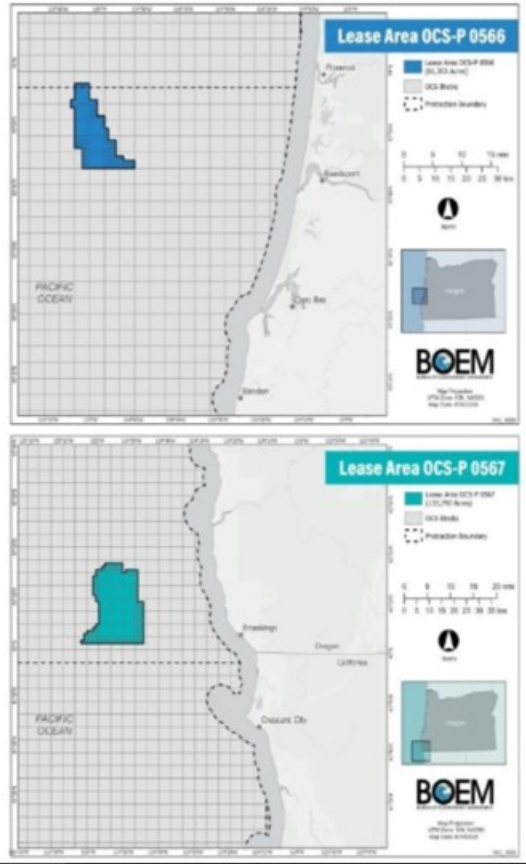
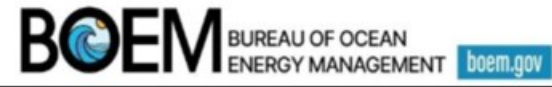
Renewable Energy Leasing Schedule Timeline (Pacific)



Potential Energy Impact of the Oregon Offshore Wind Energy Lease Sale

LEASE AREA	DEVELOPABLE ACRES	INSTALLATION CAPACITY (GW) ¹	POWER PRODUCTION (Dth/y) ²	HOMES POWERED ³
OCS-P 0566	61,203	.77 - 1.0 GW	2,603.5 - 3,472.5	260K - 346K
OCS-P 0567	133,792	1.6 - 2.1 GW	5,606.4 - 7,358.4	560K - 735K
TOTAL	194,995	2.3 - 3.1 GW	8,209.9 - 10,830.9	820K - 1,081K

*NOTES: ¹ megawatts (MW) based on 3 to 4 MW/turbine ² Formula = Capacity (GW) * 8760 (hrs/yr) * 24 (capacity factor) ³ Based on open 200 homes per MW



SUBSEA CABLE INSTALLATION WORK

R.T. Casey will be performing subsea cable installation and burial operations off the Oregon coast in the vicinity of Driftwood Beach State Recreation Site near Seal Rock, Oregon out to 13 miles offshore.

Operations are scheduled from 01-JUL-2024 through 15-OCT-2024, 24 hours a day, 7 days a week.




Operations will be staged from the following: HOS Innovator, M/V Liberty, and OSV Nautilus and can be reached on VHF-FM Channels 13 & 16.

Mariners are requested to contact the above listed vessel and **maintain a minimum of 500-yards distance** when transiting in the vicinity.

For additional information contact Zachary Casey at (504) 491-2288.

Pacific Region – Marine Hydrokinetic Research Lease Update



	Cable Work Area
	PacWave South
	Subsea cable routes

Name	DD.DD		DD MM.MM				DD MM SS.SS					
	Lat	Long	Lat	Long	Lat	Long	Lat	Long				
LNM #2	44.54109	-124.2536	44	32.465	-124	15.216	44	32	27.92	-124	15	12.96
LNM #3	44.58295	-124.2544	44	34.977	-124	15.264	44	34	58.62	-124	15	15.84
LNM #4	44.58372	-124.2322	44	35.023	-124	13.932	44	35	1.39	-124	13	55.92
LNM #5	44.55914	-124.2216	44	33.548	-124	13.296	44	33	32.90	-124	13	17.76
LNM #6	44.54553	-124.2095	44	32.732	-124	12.570	44	32	43.91	-124	12	34.20
LNM #7	44.48391	-124.1134	44	29.035	-124	6.804	44	29	2.08	-124	6	48.24
LNM #8	44.46990	-124.0955	44	28.194	-124	5.730	44	28	11.64	-124	5	43.80
LNM #9	44.46011	-124.0977	44	27.607	-124	5.862	44	27	36.40	-124	5	51.72
LNM #10	44.50681	-124.1883	44	30.409	-124	11.298	44	30	24.52	-124	11	17.88

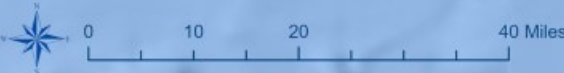
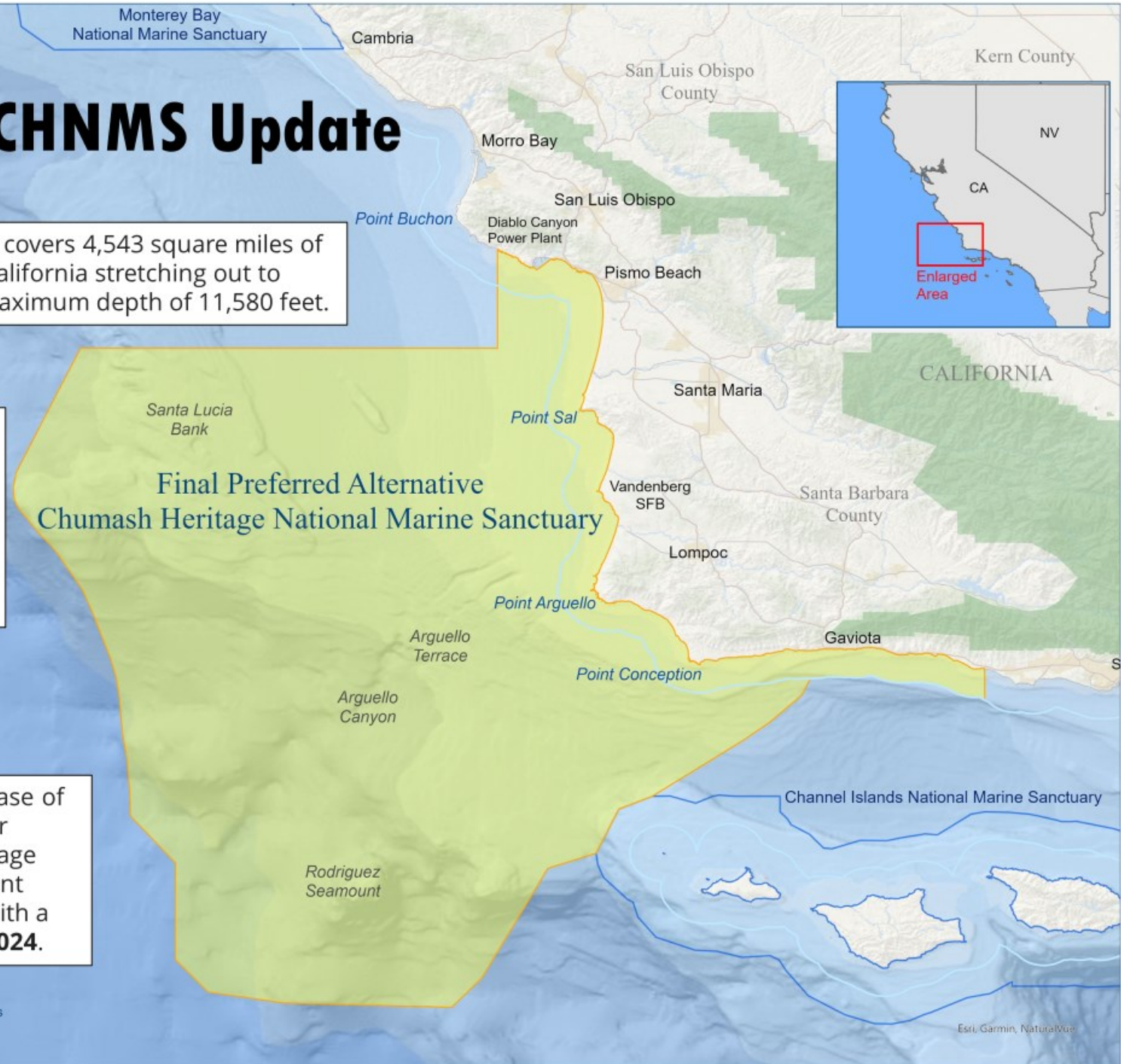


Pacific Region – CHNMS Update

NOAA's Final Preferred Alternative boundary covers 4,543 square miles of coastal and ocean waters offshore Central California stretching out to nearly 60 miles from shore and down to a maximum depth of 11,580 feet.

The sanctuary would allow for the protection of nationally significant natural, ecological, historical, and cultural resources along 116 miles of coastline from just south of Diablo Canyon Power Plant in San Luis Obispo County to the Gaviota Coast in Santa Barbara County.

On **Sept. 6, 2024**, NOAA announced the release of the final environmental impact statement for designation of the proposed Chumash Heritage National Marine Sanctuary. This is a significant step in the sanctuary designation process, with a final agency decision expected in **October 2024**.



Pacific Region – FY24 Tribal & Native Hawaiian Community Engagements



- **Bear River Band of the Rohnerville Rancheria**
- **Blue Lake Rancheria**
- **Cher-Ae Heights Indian Community of the Trinidad Rancheria**
- **Confederated Tribes of Coos, Lower Umpqua and Siuslaw Indians**
- **Coquille Indian Tribe**
- **Hoh Indian Tribe**
- **Kletsel Dehe Wintun Tribe**
- **Makah Tribe**
- **Pulikla Tribe of Yurok People**
- **Quileute Tribe**
- **Quinault Indian Nation**
- **Santa Ynez Band of Chumash Indians**
- **Shinnecock Indian Nation**
- **Tolowa Dee-ni' Nation**
- **Yurok Tribe**
- **West Coast Ocean Tribal Caucus member Tribes**

Native Hawaiian Community Engagements

- **Native Hawaiian Organization leaders**
- **Coordination with Office of Hawaiian Affairs**
- **Coordination with DOI Office of Native Hawaiian Relations**

RESEARCH HIGHLIGHTS

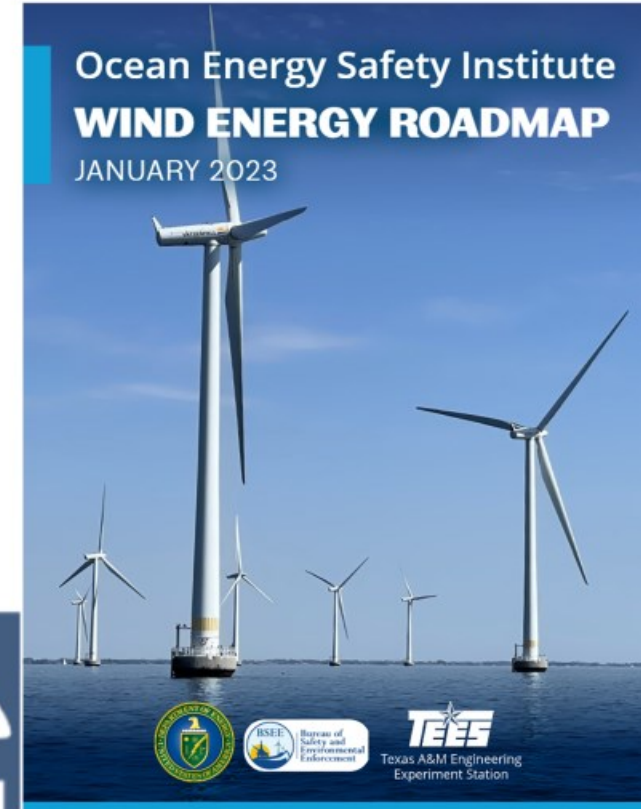
Eboné Pierce, Operations Research Analyst, BSEE Renewable Energy
Regulatory Compliance



RESEARCH COLLABORATIONS



- Department of Energy Collaboration
 - RERC is engaging with DOE's laboratories, identifying potential synergistic topics for collaborative renewable energy research supporting BSEE's mission.
- Ocean Energy Safety Institute (OESI)
 - Collaboration with academia, industry, and nongovernment organizations to execute research that impacts offshore energy safety
- Cooperative Ecosystem Studies Unit (CESU)
 - Provide research, technical assistance, and education to federal land management, environmental, and research agencies and their partners



BSEE RENEWABLE ENERGY RESEARCH



BSEE Project	Lead of the Office	Date Finalized	Ongoing or Final	Total amount in Funds (\$)
Coastal Virginia Offshore Wind Pilot (CVOW-P) Structural Monitoring Joint Project	Renewable Operations (REN Ops)	Oct-2025	On-going	\$750K
Examination of Physical and Chemical Characteristics of Dielectric Fluids	Oil Spill Response Research (OSRR), United States Coast Guard Academy (USCGA)	Oct-2025	On-going	\$42.5K
Testing of Oil Spill Technologies (TOST) 2023: Performance Testing of Oil Recovery Skimmers with Selected Dielectric Fluids	Oil Spill Response Research (OSRR), BSEE, United States Coast Guard (USCG)	Oct-2025	On-going	\$270K
Test Effort: Analysis of the Efficacy of Conventional Sorbent Materials Exposed to Selected Categories of Dielectric Fluids	Oil Spill Response Research (OSRR), BSEE, United States Coast Guard (USCG)	Oct-2025	On-going	\$52K
Renewable Energy Block Island	Renewable Operations (REN Ops)	Jul-2023	Final	\$609K
Renewable Energy Fire Protection	Technology Assessment Program (TAP)	Apr-2022	Final	\$128K
Estimating Tropical Cyclones	Office of Offshore Regulatory Programs (OORP)	Mar-2021	Peer Review on-going	\$150K
Tension Leg Platforms	Office of Structural and Technical Support, Gulf of Mexico Region (GOMR)	Sep-2018	Final	\$290K
Wave impacts on wind energy installation "Breaking Waves"	Renewable Operations (REN Ops)	Oct- 2018	Final	\$145K
Wind Turbine Fatigue and Design Criteria	Renewable Operations (REN Ops)	Sep-2015	Final	\$250K

DOE/BSEE RENEWABLE ENERGY COLLABORATIONS



DOE Mechanism	DOE Project	BSEE's Level of Involvement	Timeline	Total Amount of Project	BSEE's Contribution	# of Projects Selected
FOA 3334 NOI	Topic 1a: Refinement and Innovation in Floating Platform Design, Manufacturing, and Deployment	Aware (No Involvement), Potential SMEs	7/23/2024 – 9/2025	\$10M		4-6
	Topic 1b: Next-Generation Integrated Floating Turbine/Platform Technologies	Aware (No Involvement), Potential SMEs	7/23/2024 – 9/2025	\$10M		1-3
	Topic 2: Innovation for Fixed-Bottom Offshore Wind Foundation Types and Supporting Infrastructure	Aware (No Involvement), Potential SMEs	7/23/2024 – 9/2025	\$7.5M		2-3
	Topic 3: Technology Advancement to Inform Risk to Birds and Bats from Offshore Wind Energy	Aware (No Involvement), Potential SMEs	7/23/2024 – 9/2025	\$8M		2-4
	Topic 4: Development of a Manufacturing and Supply Chain Offshore Wind Consortium Based in the Great Lakes Region	Aware (No Involvement), Potential SMEs	7/23/2024 – 9/2025	\$5M		1-2
	Topic 5: Floating Offshore Wind Center of Excellence	Funding, SMEs	7/23/2024 – 9/2025	\$3.5M	\$300K	1
	Topic 6: Protecting Future Offshore Wind Farms Against Lightning	Funding, SMEs	7/23/2024 – 9/2025	\$4.2M	\$300K	1-2
NREL/SNL AOP	Standards Development (w/ BOEM & BSEE)	Funding, SMEs	2020 -> 2025+	~600K per year		
BSEE IAA	Ocean Energy Safety Institute 2.0 – 2 nd Solicitation	Funding, Contract administration, SME's	FY21-26 (+)	\$5M	\$4M	
US/DK NOI	U.S.-Danish Floating Offshore Wind Energy Mooring and Anchoring Research and Development	Aware (No Involvement), Potential SMEs	FY24-27	\$4M		
NOWRDC NOI	Solicitation 4.0 – Innovations in Floating Offshore Wind (CEC, NYSERDA, DOE, MassCEC, BOEM)	Aware (No Involvement), Potential SMEs	FY24-28	\$10.6M		
NOWRDC JIP (NREL AOP)	Multi-fidelity Modeling of Offshore Wind Inter-Array Wake Impacts to Inform Future U.S. Atlantic Offshore Wind Energy Area Development	Funding, SMEs, New NREL IAA	6/22/2024 – 9/2025	\$250K	\$300K	
STORM AOP	Determination of appropriate design parameters for storm force winds along the eastern seaboard and out to the exclusive economic zone.	Funding, SMEs, New NREL IAA	5/2024 – 1/2025	TBD	\$150K	
	Determination of appropriate design parameters for future storm force winds because of climate change along the eastern seaboard and out to the exclusive economic zone.	Funding, SMEs, New NREL IAA	5/2024 – 1/2025	TBD	\$150K	
FOA 3121 (In selection phase)	Topic 1: Reliable Moorings for Floating Offshore Wind and Marine Energy Systems: 1a) Test Mooring Ropes for Fatigue 1b) Robust Sensor Systems for Mooring Condition Monitoring 1c) Validate Shared Anchor / Shared Mooring Array Configurations	Funding, SMEs	9/2023 – 9/2024	\$6.4M	\$400K	6-8
	Topic 2: Noise Reduction for Fixed-Bottom Offshore Wind Installation:	SMEs	9/2023 – 9/2024	\$10M		3-8

WRAP UP AND CLOSING REMARKS

Michaela Noble, Director, BSEE Renewable Energy Regulatory Compliance





PUBLIC INQUIRIES AND INCIDENT REPORTING

- General public inquiries:

- BSEE Office of Public Affairs – (800) 200-4853



- Incident reporting as per 30 CFR 285.831(a):

- BSEE Incident Reporting webpage:

<https://www.bsee.gov/resources-tools/incident-reporting>

- 30 CFR 285.831(a): incidents involving personnel safety, hazards, structural/equipment damage, environmental damage or harm

THANK YOU

We will share the meeting recording and the presentation with attendees afterwards.

For follow-up on today's presentation, please contact us at:

BSEEOfficeofRenewableEnergy@bsee.gov



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