



# Offshore Wind Workshop

## Offshore Wind Regulatory Framework

*May 20, 2021*

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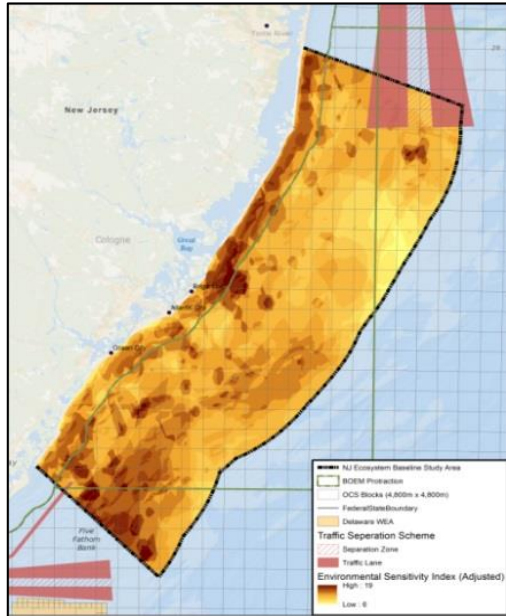
*BSEE Renewable Energy Program Coordinator*

**Organized by the Offshore Operators Committee, National Ocean Industries Association,  
Bureau of Ocean Energy Management and Bureau of Safety and Environmental Enforcement**



# OCS Renewable Energy Authorization Process

Planning  
& Analysis



Leasing



Site Assessment

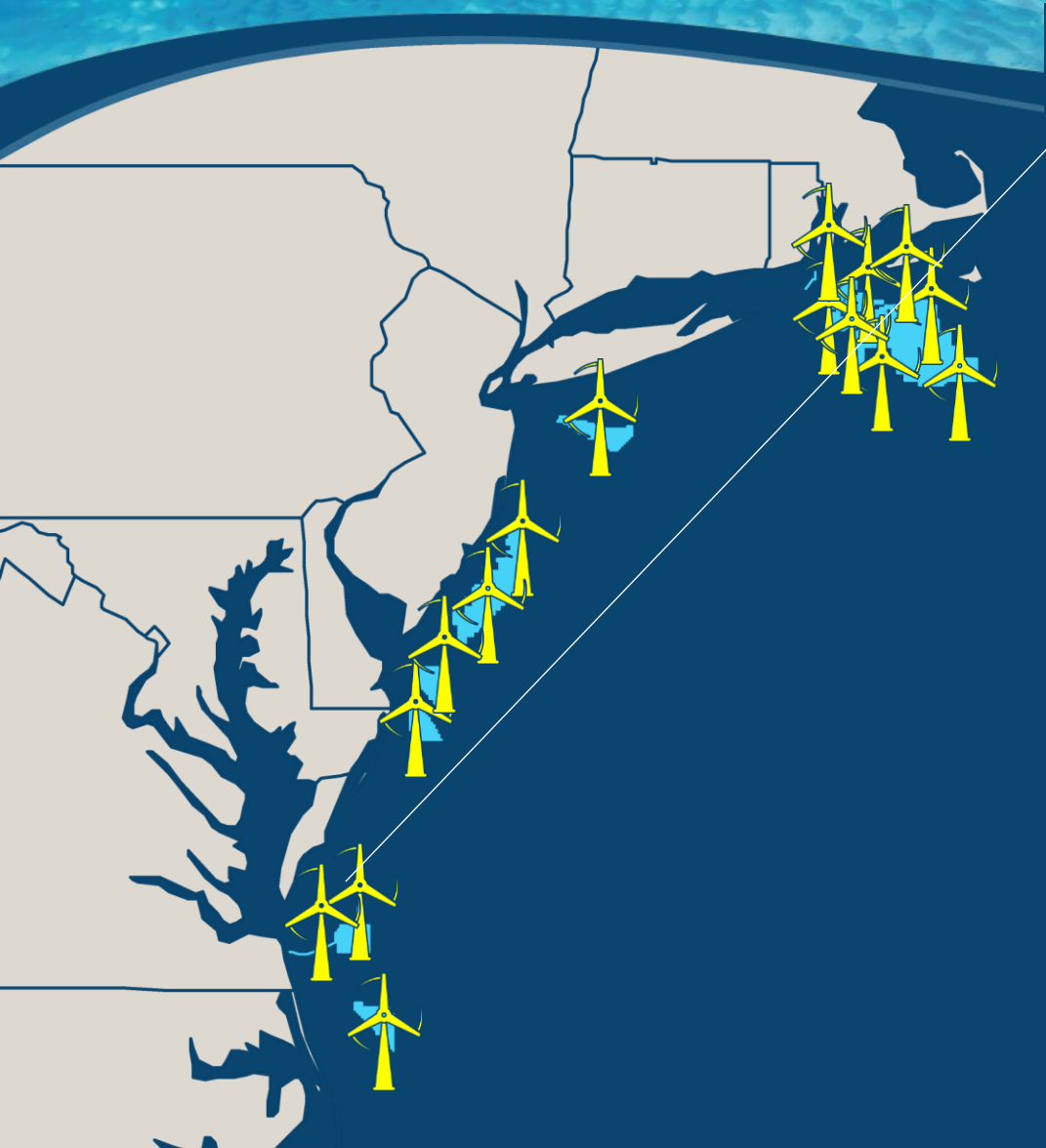


Construction  
& Operations





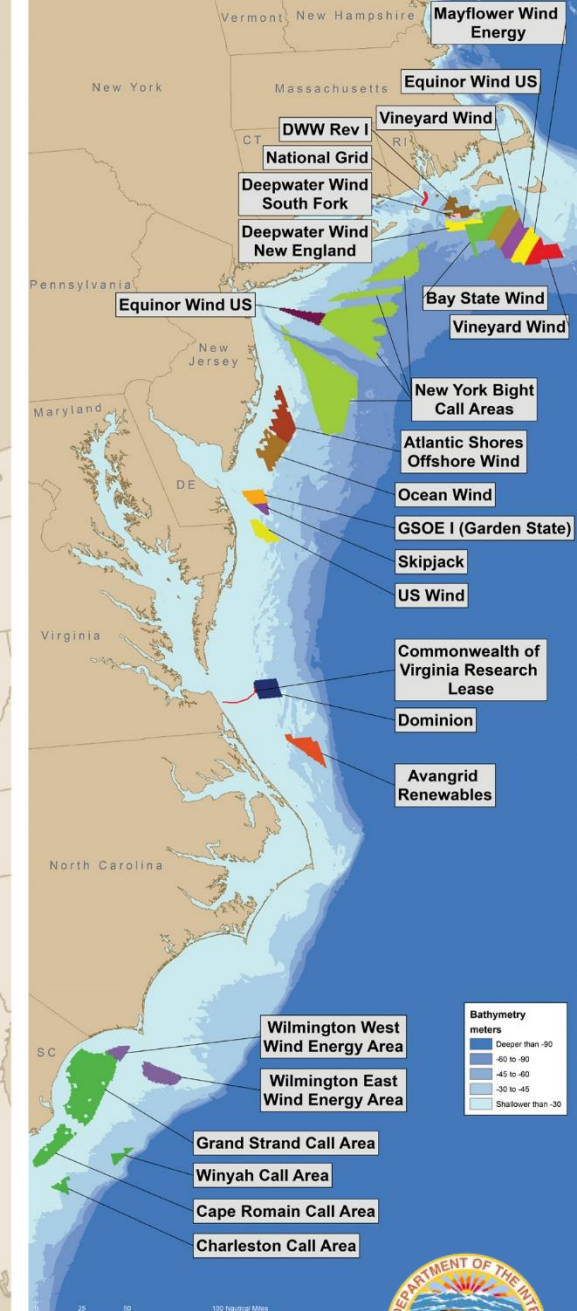
# Atlantic OCS Renewable Energy: “Projects in the Pipeline”



	Project	Company
<b>2020</b>	Coastal Virginia Offshore Wind Pilot	
▼	South Fork	
▼	Vineyard Wind I	
▼	Revolution Wind	
▼	Skipjack Windfarm	
▼	Empire Wind	
▼	Bay State Wind	<small>An Orsted &amp; Eversource Initiative</small>
▼	U.S. Wind	
▼	Sunrise Wind	
▼	Ocean Wind	
▼	Coastal Virginia Offshore Wind Commercial	
▼	Park City Wind	
▼	Mayflower Wind	<small>A Shell and EDF Renewables joint venture</small>
▼	Atlantic Shores	
▼	Kitty Hawk	
<b>2030</b>	OCS-A 0522	



# Renewable Energy Program by the Numbers



# 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
- ✓ BOEM conducts review to determine if information provided in the COP is sufficient to initiate NEPA review, Section 106, & other consultations
- ✓ CVA Nomination
- ✓ Navigation Safety Risk Assessment (*coordinated review with USCG*)
- ✓ Preliminary Oil Spill Response Plan and SMS (*finalized prior to installation*)





# BSEE's Renewable Energy Role

- BOEM is communicating to the current offshore wind lessees that BSEE is acting on behalf of BOEM in connection with the following functional areas:
  - Environmental and safety management, including development and oversight of Safety Management Systems
  - Incident reporting
  - Inspections
  - Investigations
  - Facility and equipment maintenance
  - Verification activities, including Certified Verification Agent responsibilities
  - Structural assessments
  - Oil spill preparedness
  - Decommissioning and site clearance, including plan review
  - Environmental compliance
  - All matters involving the safety of personnel

# Worker Safety

- The Global Offshore Wind Health and Safety Organization (G+) reported a total recordable injury rate of **5.5 injuries per 1 million hours worked in 2019** ([www.gplusoffshorewind.com](http://www.gplusoffshorewind.com)). In comparison, the 2019 recordable injury rate for the U.S. offshore oil and gas industry was **2.82 injuries per million hours worked**
- OCS wind industry workers face unique challenges to maintain their safety and protect the environment
- A commitment to job creation through rapid program development includes a commitment to ensuring those jobs are safe

**Estimated Full Time Equivalent Personnel for 30 GW Planned OCS Wind Farm Development**

	2021	2022	2023	2024	2025	2026	2027	2028	2029	2030
Installation	8,550	17,963	25,575	32,441	31,800	31,125	30,488	29,888	29,325	20,213
O&M	375	1,875	4,388	8,100	12,413	16,575	20,738	24,750	28,763	32,663
Sum	8,925	19,838	29,963	40,541	44,213	47,700	51,225	54,638	58,088	52,875

# DOI Policy Statement

DOI will act as the principal regulator and enforcement agency on the OCS for workplace safety and health on renewable energy facilities

OSHA will cooperate with DOI and provide expertise.

Oct. 2019 policy statement (*see right*)

DOI will consider the standards used in OSHA regulations as a baseline but can allow alternate standards to achieve the same level of safety.

## DEPARTMENT OF THE INTERIOR

### Bureau of Safety and Environmental Enforcement

#### 30 CFR Part 250

### Bureau of Ocean Energy Management

#### 30 CFR Part 585

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### Department of the Interior Policy Statement on Regulating Workplace Safety and Health Conditions on Renewable Energy Facilities on the Outer Continental Shelf

**AGENCY:** Bureau of Ocean Energy Management, Interior; Bureau of Safety and Environmental Enforcement, Interior.

**ACTION:** Notification of policy statement.

## Role of DOI

DOI will act as the principal Federal agency for the regulation and enforcement of safety and health requirements for OCS renewable energy facilities.<sup>7</sup> DOI considers its regulatory program, described in part above, to occupy the field of workplace safety and health for personnel and others on OCS renewable energy facilities, and to preempt the applicability of Occupational Safety and Health Administration (OSHA) regulations. *See* 29 U.S.C. 653(b)(1).

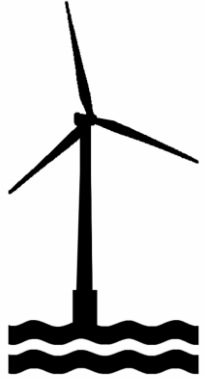
In carrying out its responsibilities on the OCS, DOI will collaborate and consult with OSHA on the applicability and appropriateness of workplace safety and health standards for the offshore wind industry and other offshore renewable energy industries.

In addition, DOI will continue to collaborate with the USCG to share relevant safety and training information and promote safety on the OCS.

In implementing this policy statement, DOI may amend its regulations or issue guidance related to the workplace health or safety of employees on renewable energy facilities on the OCS.



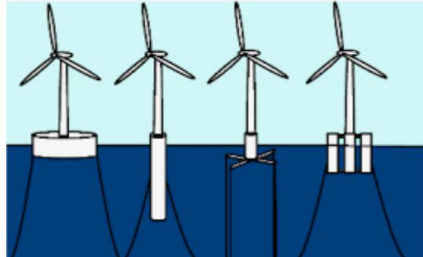
# Recommended Practices Working Groups



## *Working Group 1*

**ACP Offshore  
Compliance  
Recommended  
Practices (ACP  
OCR 2012)  
Maintenance**

**Rain Byars (Shell)  
Graham Cranston  
(DNV-GL)**



## *Working Group 2*

**U.S. Floating  
Offshore Wind  
Systems**

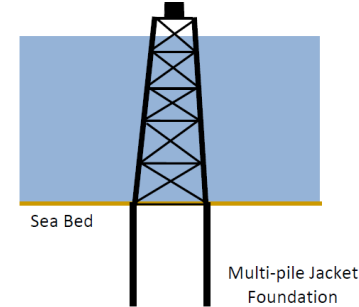
**Lars Samuelsson  
(ABS)  
Leif Delp (Equinor)**



## *Working Group 3*

**U.S. Offshore  
Wind Metocean  
Conditions  
Characterization**

**Michael Drunsic (WSP)  
Lorry Wagner  
(Ventolines B.V.)**



## *Working Group 4*

**U.S.  
Geotechnical  
and Geophysical  
Investigations  
and Design**

**Matt Palmer  
(Wood Thilsted)  
Mathieu Guinard  
(Atkins)**



## *Working Group 5*

**U.S. Offshore  
Wind Submarine  
Cables**

**Georg Engelmann  
(Excipio Energy)  
Bob Hobson (NKT HV  
Cables AB)**

Slide courtesy National Renewable Energy Laboratory

# Any Questions?

For Additional Information Please Contact:  
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Darryl Francois – [darryl.francois@boem.gov](mailto:darryl.francois@boem.gov)

“To promote safety, protect the environment and conserve resources offshore through vigorous regulatory oversight and enforcement.”



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“To manage development of U.S. Outer Continental Shelf energy and mineral resources in an environmentally and economically responsible way.”

