



Welcome to the Sunrise Wind Scoping Meeting

The meeting will begin at 5:30PM EDT

September 22, 2021

Join this meeting by phone

Call: (646) 558 8656

Webinar ID: 891 0560 0807

Project specific information

and posters at:

<https://www.boem.gov/sunrise-wind-scoping-virtual-meetings>

For Technical Support

Kelsey Kahn

917-994-8255

kkahn@fhstudio.com





Sunrise Wind Scoping Meeting

Construction & Operations Plan Environmental Impact Statement Scoping Meeting

September 22, 2021

Note: *The audio for this meeting is being recorded.*



Welcome & Meeting Process

Marcy Miller, Facilitator (FHI)

Note: *The audio for this meeting is being recorded and will be shared on the project website following the meeting.*



Scoping Meeting Agenda

1. **Welcome** – Michelle Morin, BOEM
2. **Meeting Process**
3. **Presentations**
 - Leasing History – Emily Hildreth, BOEM
 - NEPA Process – JT Hesse, BOEM
 - Project Overview – Lia Howard, Orsted
4. **Public Comment Listening Session**
5. **Question & Answer Session**
6. **Close** – Michelle Morin, BOEM

Welcome & Opening Remarks

Michelle Morin

BOEM, Chief Environmental Branch for Renewable Energy



Virtual Meeting Reminders and Guidelines

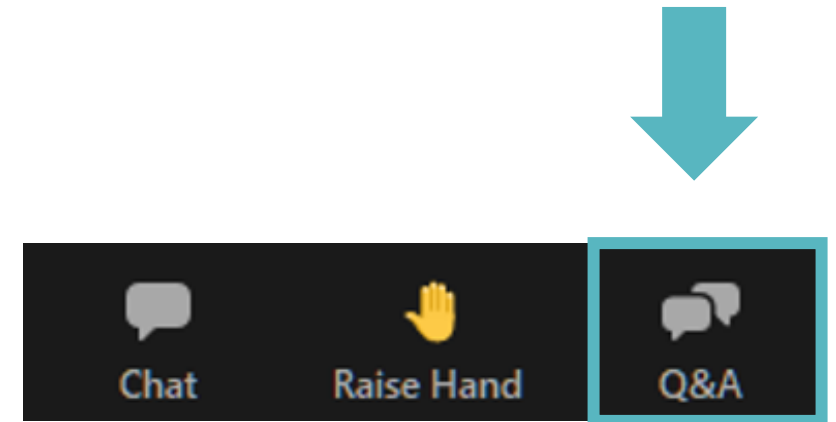
For Technical Support
Kelsey Kahn, 917-994-8255
kkahn@fhistudio.com

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- **This is a Zoom webinar, so all participants are automatically placed on mute until the formal comment period**
- **To preserve bandwidth for a smoother meeting experience, you may need to close other programs on your computer during this session**
- **Please direct any media inquiries to Beverly Winston at 202-709-0441 or email beverly.winston@boem.gov**

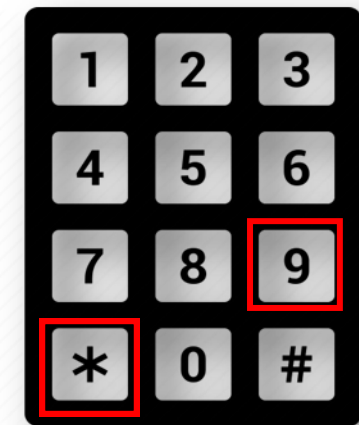
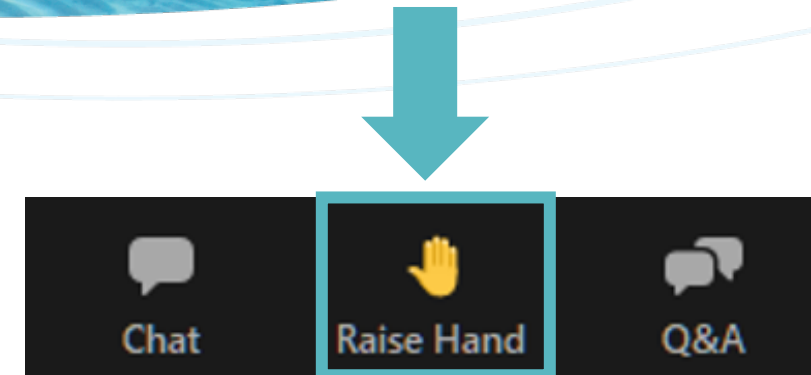
Have a Clarifying Question?

- **If you have a question, please click on the Q&A icon at the bottom of your screen to send it to us**
- **We will take new questions through the end of the Public Comment session**
- **During the Q&A session we will share the questions and answers verbally**



Public Comment Process

- We will start by calling on those who registered in advance to comment. If you did not register to comment but would like to, raise your hand.
- We will post the names of the next five people in line to comment in the chat.
- Use 'raise hand' button when you see your name in the chat (or *9 for phone-only participants).
- When you are called upon, the Facilitator will invite you to unmute your line.
- Please state and spell your name when you begin and limit comments to 5 minutes.



Purpose of this Scoping Meeting

- **To provide an understanding of the proposed project**
- **To share the location of information available for public review**
- **To explain NEPA Substitution for the NHPA Section 106 process**
- **To gather public comments**
- **To answer questions submitted during the meeting**

Sample Posters

<https://www.boem.gov/Sunrise-Wind-Scoping-Virtual-Meetings>

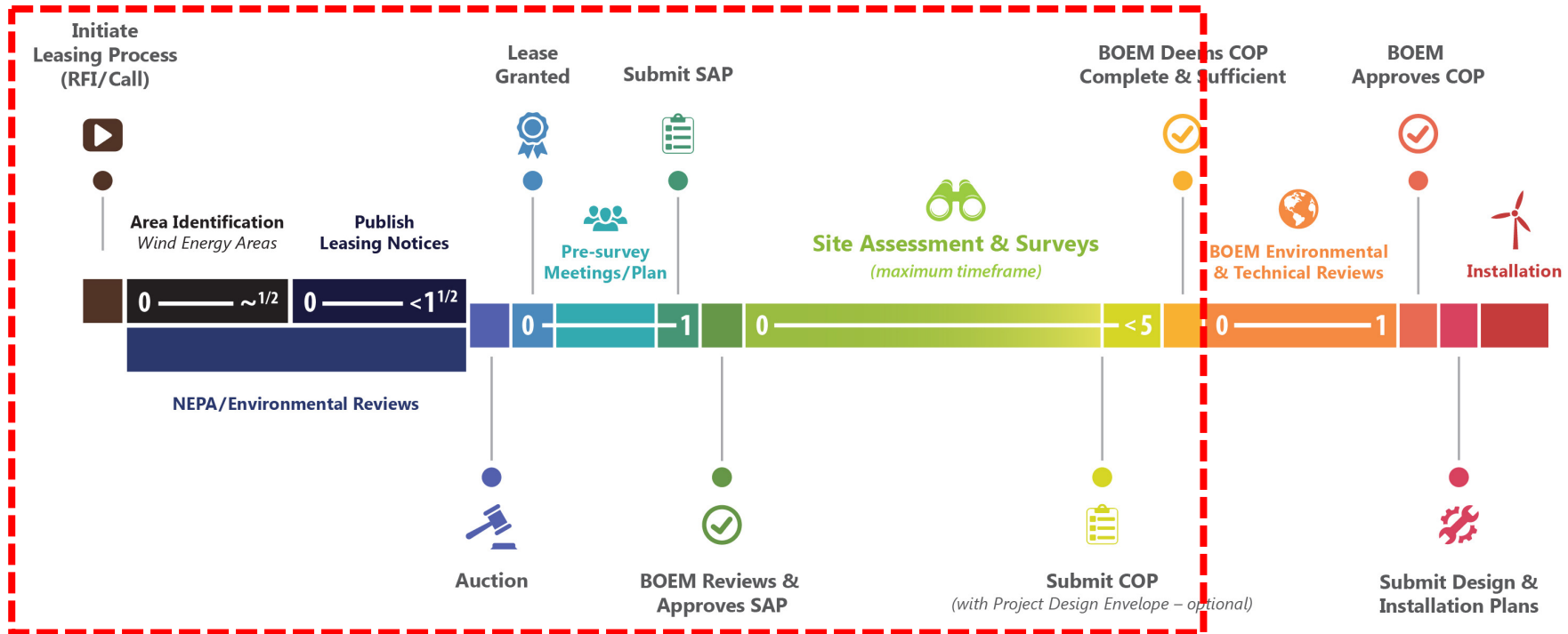
- **BOEM Lease Areas**
- **Lease History**
- **Project Design Envelope**
- **Fishing Intensity**
- **Marine Mammals**
- **Sea Turtles**
- **BOEM Review Process**
- **Avian**
- **Historic Preservation**
- **Cable Laying**
- **Underwater Noise**
- **How to Comment**

Leasing Process History

Emily Hildreth
BOEM, Project Coordinator



Planning and Leasing Process Overview



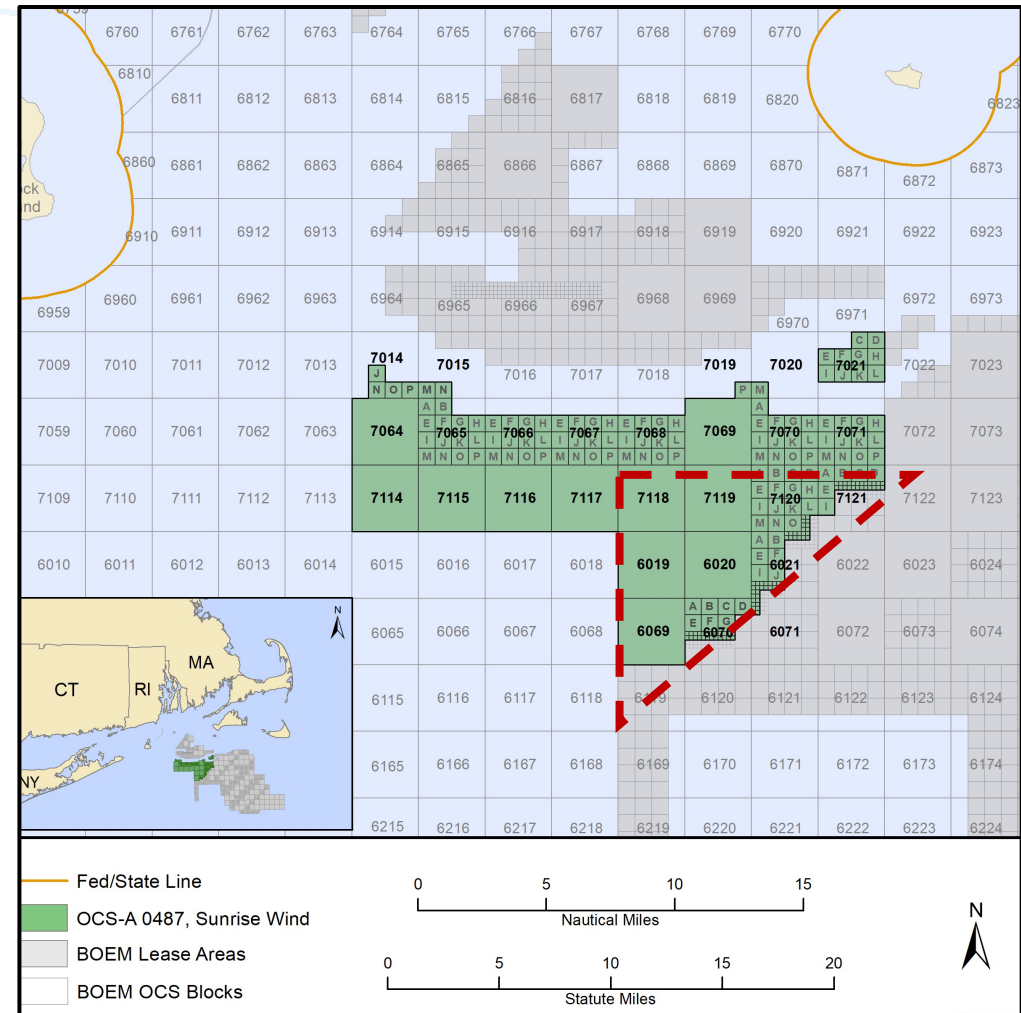
Takeaways:

- Interest from states and industry initiate process
- Stakeholder engagement leads to identifying and winnowing potential areas
- Formal environmental review and leasing processes are completed prior to COP proposal

Current Boundaries of Sunrise Wind Project (Lease OCS-A 0487)

- **Combination of:**

- Lease OCS-A 0487 (67,250 acres)
- Portion of Lease OCS-A 0500 (42,702 acres). Outlined in red.



Stakeholder Outreach for OCS-A 0487 and OCS-A 0500

OCS-A 0487: Rhode Island/Massachusetts

- **8 Task Force Meetings**
 - First meeting November 2009
 - Joint meetings began in 2010
- **6 Public Meetings**
 - Informational, Environmental Assessment meetings
- **Engagement with Stakeholder Groups**
- **Last Task Force Meeting:** April 24, 2018

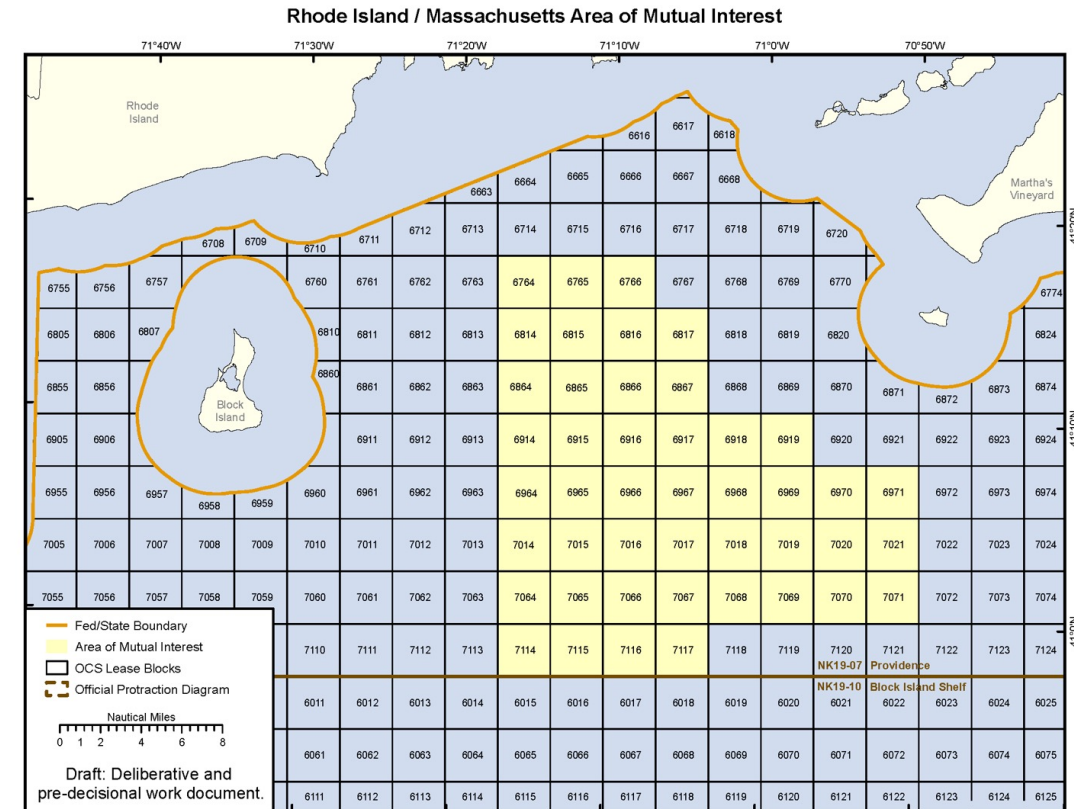
OCS-A 0500: Massachusetts

- **13 Task Force Meetings**
 - First meeting November 2009
- **20 Public Meetings**
 - Informational, Environmental Assessment meetings
- **Engagement with Stakeholder Groups**
- **Last Task Force Meeting:** April 24, 2018

Rhode Island/Massachusetts Area Leasing History: OCS-A 0487

Timeline of Key Milestones

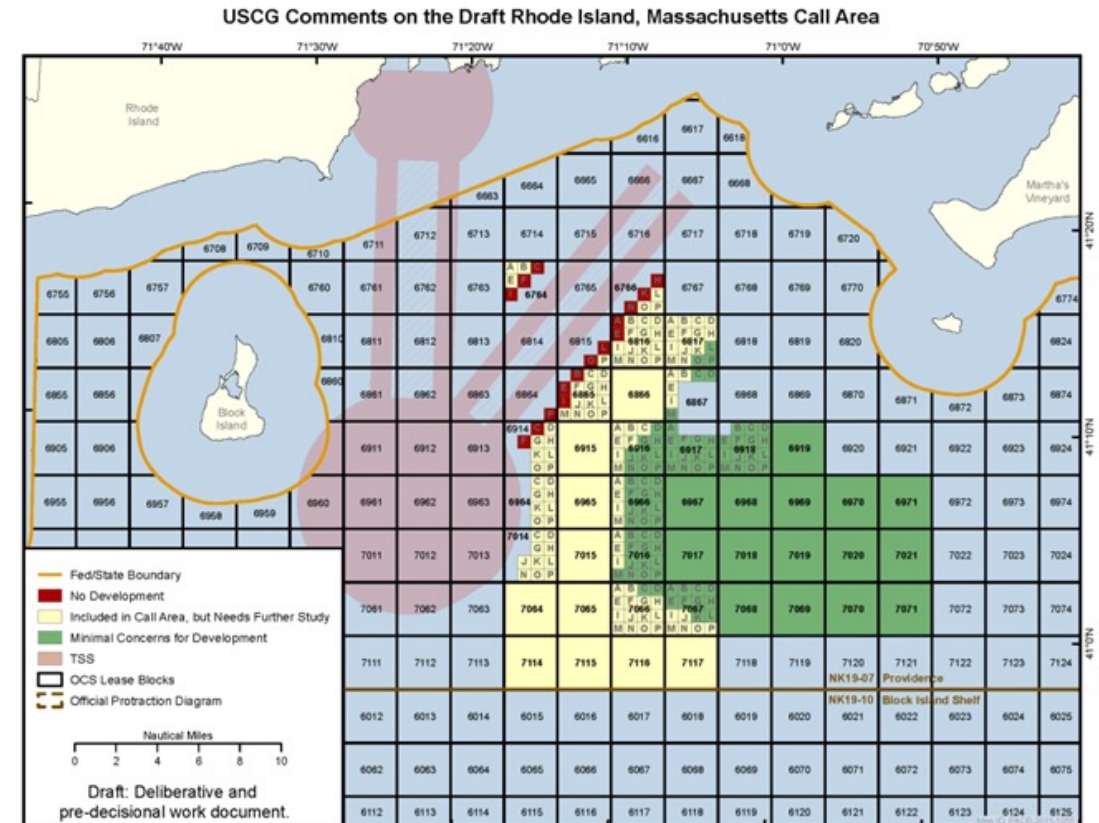
- **July 2010:** Memorandum of Understanding and “Area of Mutual Interest” (right)
- **Aug. 2011:** Call for Information and Nominations (Call) and Notice of Intent (NOI) to Prepare Environmental Assessment
- **Feb. 2012:** Announcement of the Rhode Island and Massachusetts Wind Energy Area
- **July 2012:** Notice of Availability of an Environmental Assessment
- **June 2013:** Notice of Availability of Revised Environmental Assessment and Finding of No Significant Impact



Rhode Island/Massachusetts Area Leasing History: OCS-A 0487

Key Marine Spatial Planning Factors

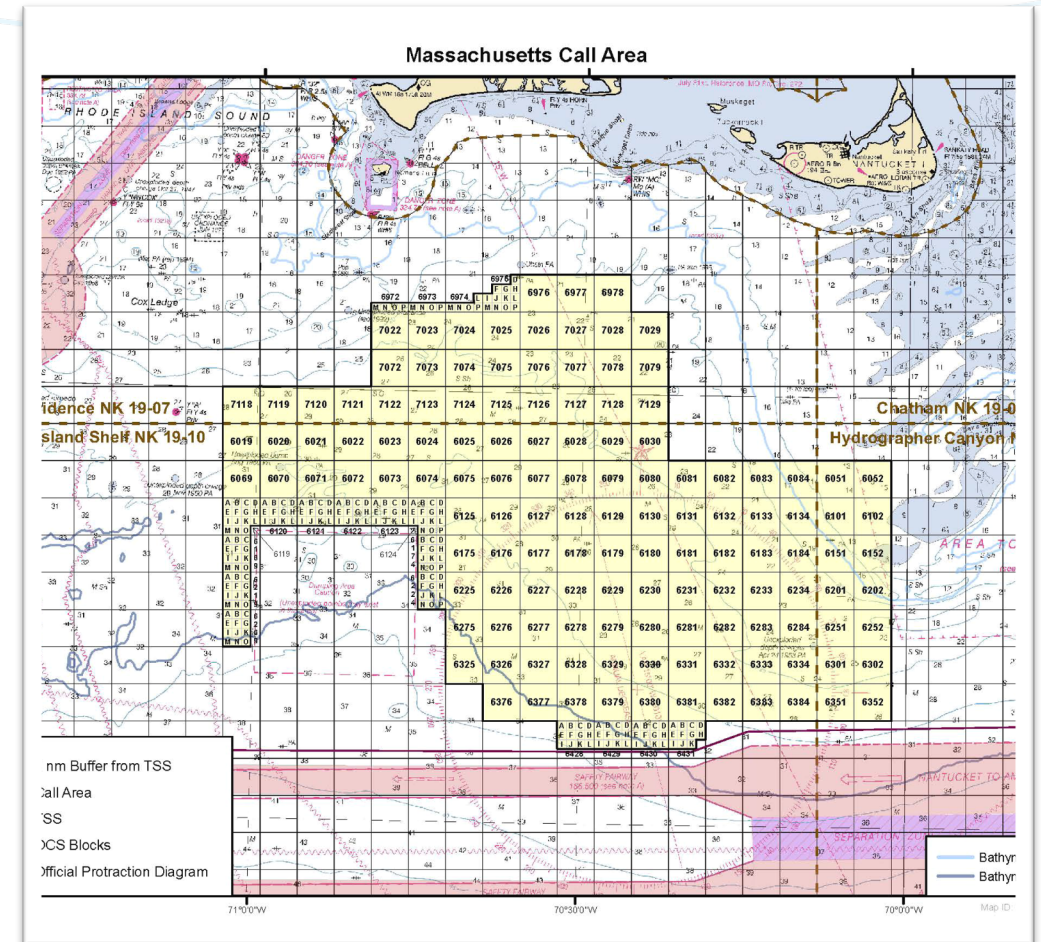
- Fisheries
- Marine Protected Species
- Visual Resources
- Shipping Lanes, Traffic Separation Scheme (example analysis on right)
- Commercial Interest



Massachusetts Leasing History: OCS-A 0500

Timeline of Key Milestones

- **2010-2011:** Request for Interest
- **2012:** Notice of Availability of an Environmental Assessment
- **2012:** Call for Information and Nominations Area
- **2013:** National Renewable Energy Laboratory Report w/ recommended delineation of leases
- **2014:** Wind Energy Area announced



Massachusetts Area Leasing History: OCS-A 0500

Key Marine Spatial Planning Factors

- Fisheries (example analysis on right)
- Marine Protected Species
- Shipping Lanes, Traffic Separation Scheme
- Commercial Interest

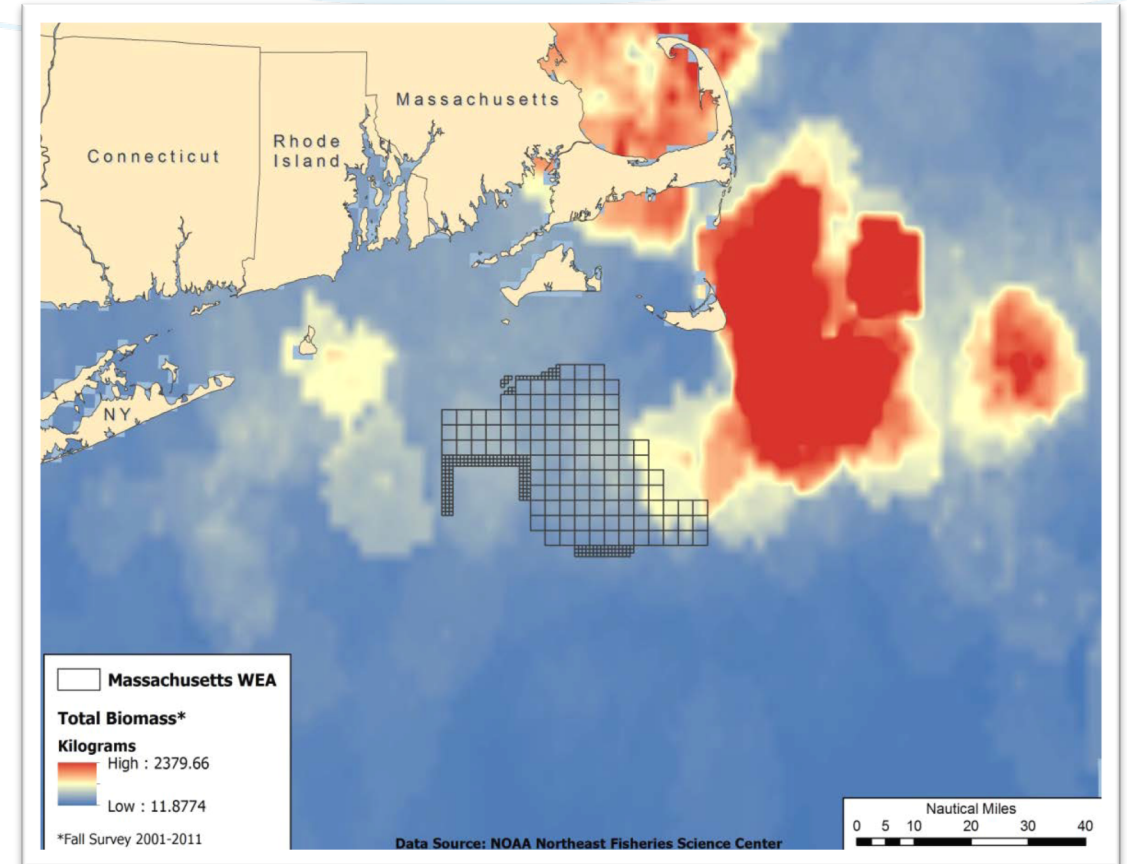
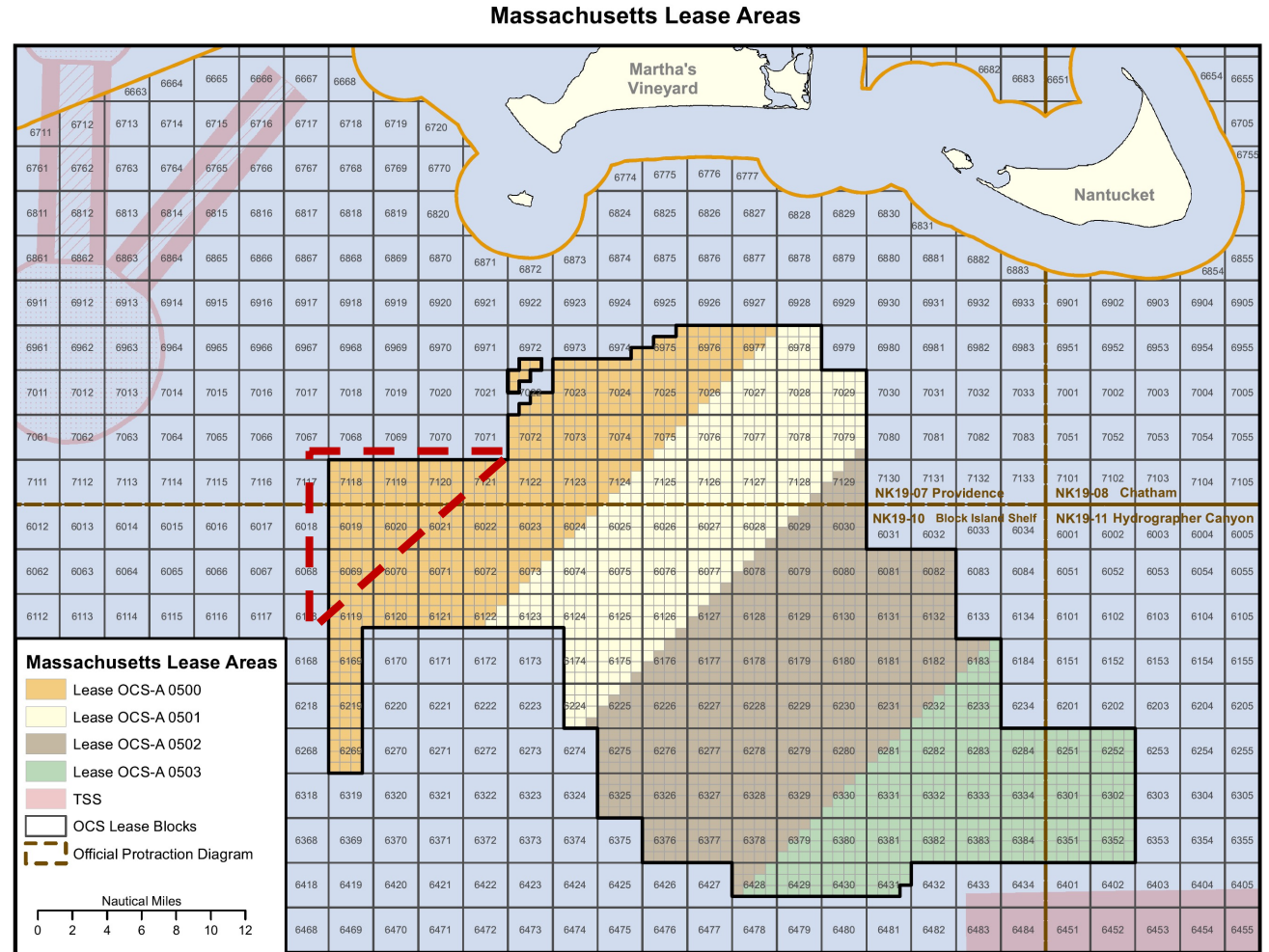


Figure 4-7. Total biomass (kg) of fish caught during the NEFSC Autumn Bottom Trawl Survey (2001-2011)

Massachusetts Area Leasing History: OCS-A 0500

- 2014: Proposed and Final Sale Notices
- 2015: Commercial Lease Sale
 - \$431,482 in high bids
 - 2 participants
 - RES America Developments, Inc. wins OCS-A 0500
 - Assignment to DONG Energy Massachusetts, LLC approved in 2015
 - Name changed to Bay State Wind, LLC in 2016



Current Boundaries of Lease OCS-A 0487

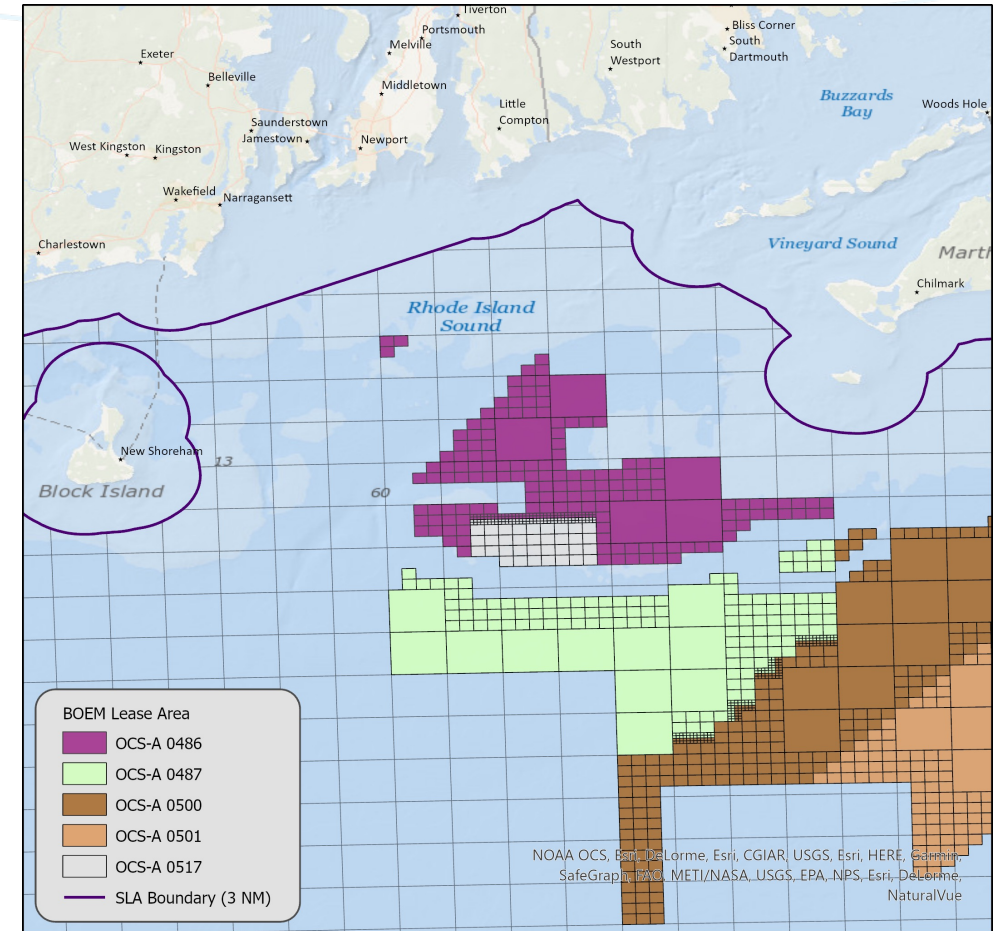
2020:

- Deepwater Wind New England, LLC assigned Lease OCS-A 0487 to Sunrise Wind, LLC.
- Bay State Wind, LLC assigned 100 percent of its record title interest in a portion of lease OCS-A 0500, which BOEM designated OCS-A 0530, to Sunrise Wind, LLC.

2021:

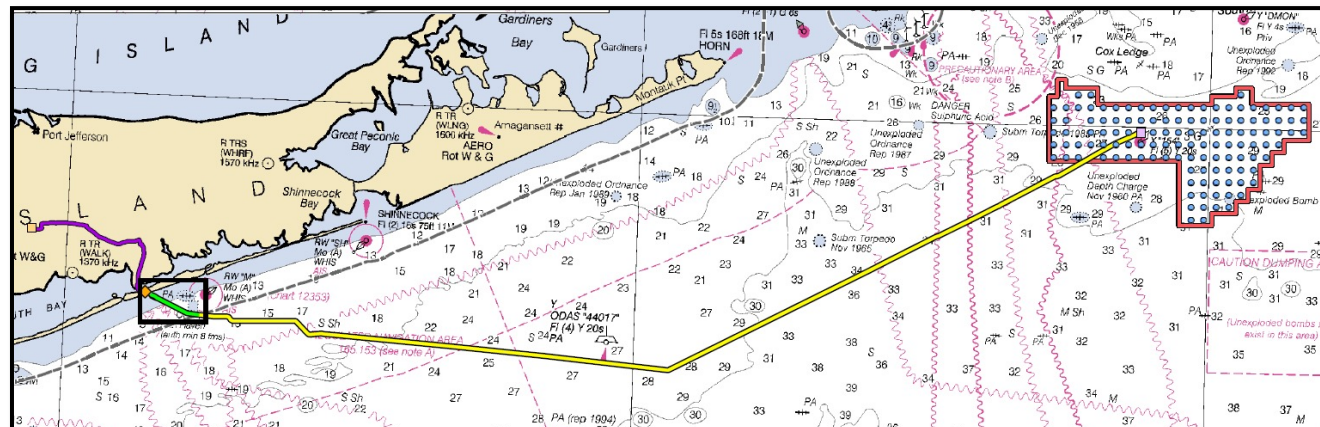
- BOEM completed the consolidation of lease OCS-A 0530 into Lease OCS-A 0487.

- **The resulting OCS-A 0487 lease area is 109,952 acres (mint green).**
- **Sunrise Wind is proposing to develop entire lease area EXCEPT for the isolated aliquot cluster closest to Lease OCS-A 0486.**



Sunrise Wind Construction and Operations Plan (COP)

- Sunrise Wind first submitted COP Sept. 1, 2020
- Aug. 23, 2021 version of COP is available at: www.boem.gov/sunrise-wind
- BOEM can approve, disapprove, or approve with conditions
 - Occurs after environmental impact statement (EIS) is complete and documented by the Record of Decision (ROD)



BOEM

Bureau of Ocean Energy
Management

BOEM.gov



Emily Hildreth | emily.hildreth@boem.gov | 571-491-7505

For more information on the Sunrise Wind Farm Project, visit:
www.boem.gov/sunrise-wind

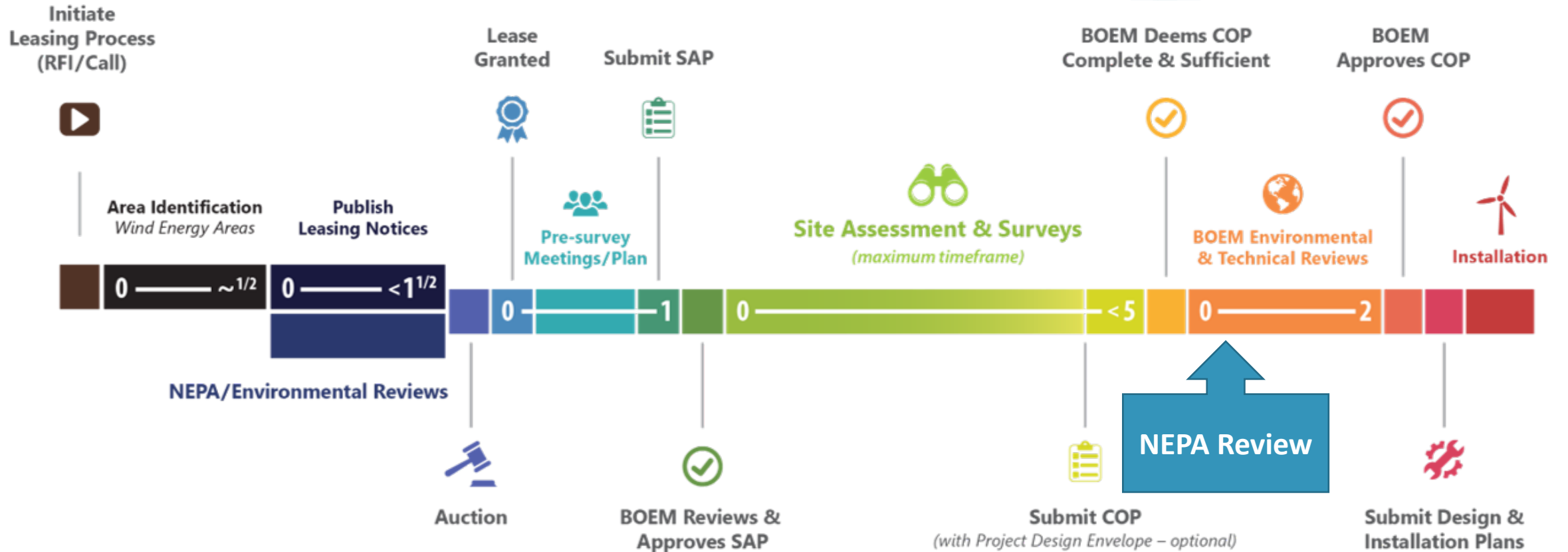
NEPA Process

JT Hesse

BOEM, Environmental Coordinator for Sunrise Wind Farm

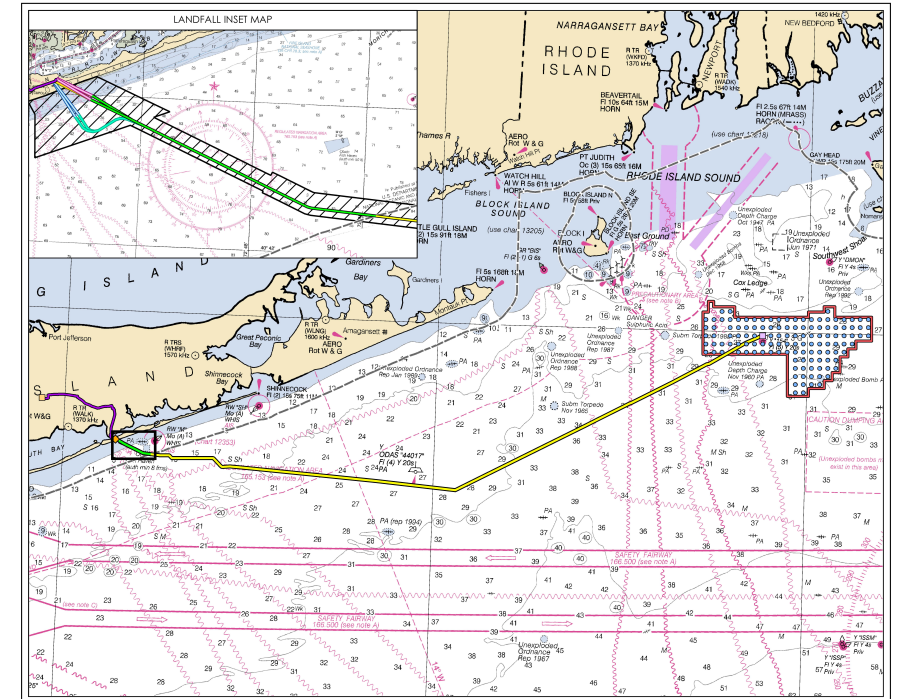


Leasing and Development Process



Sunrise Wind Construction and Operations Plan (COP)

- Sunrise Wind, LLC submitted original COP on **September 1, 2020**
- Most recent COP update received on **August 23, 2021**
- COP is currently available at: www.boem.gov/sunrise-wind
- BOEM can approve, disapprove, or approve with modifications
 - Will happen after environmental impact statement (EIS) is complete and will be documented by the Record of Decision (ROD)



National Environmental Policy Act (NEPA)

NEPA is a procedural law requiring Federal agencies to assess the environmental effects of their proposed action(s), and reasonable alternatives, prior to making decisions.

- **Major Actions/Decision Points**

- Lease Issuance (Survey Work)
- Plan Approval (Site Assessment, Construction & Operation, or General Activities)
- Decommissioning Activities

Environmental Review and Approval Process for COP

~2 YEARS OR LONGER

COP Submittal

- Completeness and sufficiency review

Public Scoping

- Publish Notice of Intent in *Federal Register*
- 30-day public comment period
- Hold public meetings
- Receive input on issues and alternatives

Draft Environmental Impact Statement

- Prepare with cooperating agencies
- Publish Notice of Availability in *Federal Register*
- 45-day public comment period
- Hold public hearings

Final Environmental Impact Statement

- Address public comments with cooperating agencies
- Publish Notice of Availability in *Federal Register*

Record of Decision

- Minimum 30-day wait period

24 MONTHS



Notice of Intent (NOI) to Prepare an Environmental Impact Statement (EIS)

- **Published in the *Federal Register* on August 31, 2021**
 - www.boem.gov/86-FR-48763
- **Technical Correction published in Federal Register on September 3, 2021**
 - www.boem.gov/86-FR-49563
- **Starts the EIS process**
- **Public comment period, ending October 4, 2021**

Public Comment on the NOI

- **Very important element of NEPA**
- **Local expertise and perspective help guide environmental analysis and results in more informed decisions**
- **Types of information BOEM is looking for:**
 - Significant issues to be analyzed in EIS
 - Identification of sources of information to include in the EIS
 - Reasonable alternatives
 - Comments due **October 4, 2021**

Scoping Meetings

Three virtual public scoping meetings:

- Thursday, September 16, 2021 – 5:30 PM EDT
- Monday, September 20, 2021 – 1:00 PM EDT
- Wednesday, September 22, 2021 – 5:30 PM EDT

Virtual Meeting Room: <https://www.boem.gov/Sunrise-Wind-Scoping-Virtual-Meetings>

- Facts Sheets
- Project Posters
- Meeting Information
- How to Comment



How to Comment



At this meeting!

- “Raise your hand” in the Zoom meeting

In writing:

Program Manager
Bureau of Ocean Energy Management
Office of Renewable Energy Programs
45600 Woodland Road (VAM-OREP)
Sterling, VA 20166

Online at
www.regulations.gov

Enter **BOEM-2021-0052**;
click “search.” Use the
“Comment Now!” button on
the right side of the screen

What's in an EIS?

- **Proposed Action**

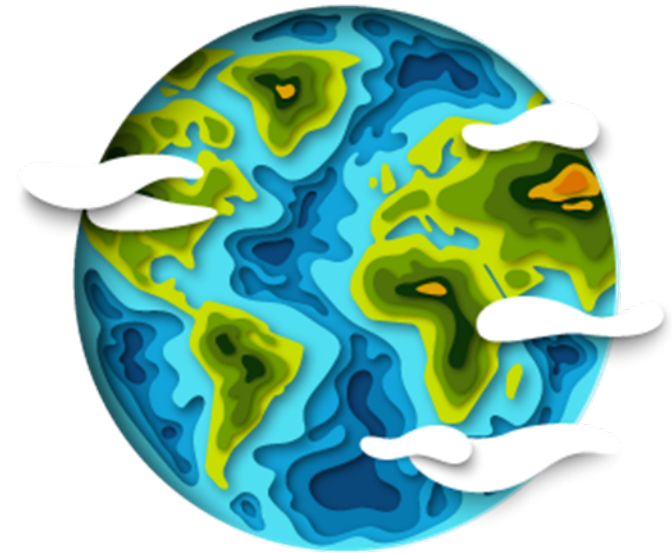
- Action being analyzed

- **Alternatives**

- Provide reasonable alternatives which may reduce or eliminate impacts. At a minimum, proposed action and no action alternative

- **Effects**

- The description of the affected environment in the EIS will include reasonably foreseeable environmental trends and planned actions other than the Project
- Effects include beneficial and adverse



Environmental and Socioeconomic Resources

Biological

- Marine Mammals
- Sea Turtles
- Fish and Essential Fish Habitat (EFH)
- Coastal Habitats
- Benthic Resources
- Avian and Bat Species



Physical

- Air Quality
- Water Quality

Socioeconomic

- Aesthetics and Visual Resources
- Commercial and Recreational Fishing
- Cultural Resources
- Military Uses
- Environmental Justice
- Land Use and Coastal Infrastructure
- Tourism and Recreation
- Demographics and Employment

Environmental Review of COP

- **Design Envelope**

- Maximum impacting parameters for each resource
- Avoids pausing or restarting environmental review due to project changes
- Reduces or eliminates the need for subsequent environmental reviews as project is refined/revised after approval
- Revisions outside of the design envelope would require additional environmental review and consultations

Consultations

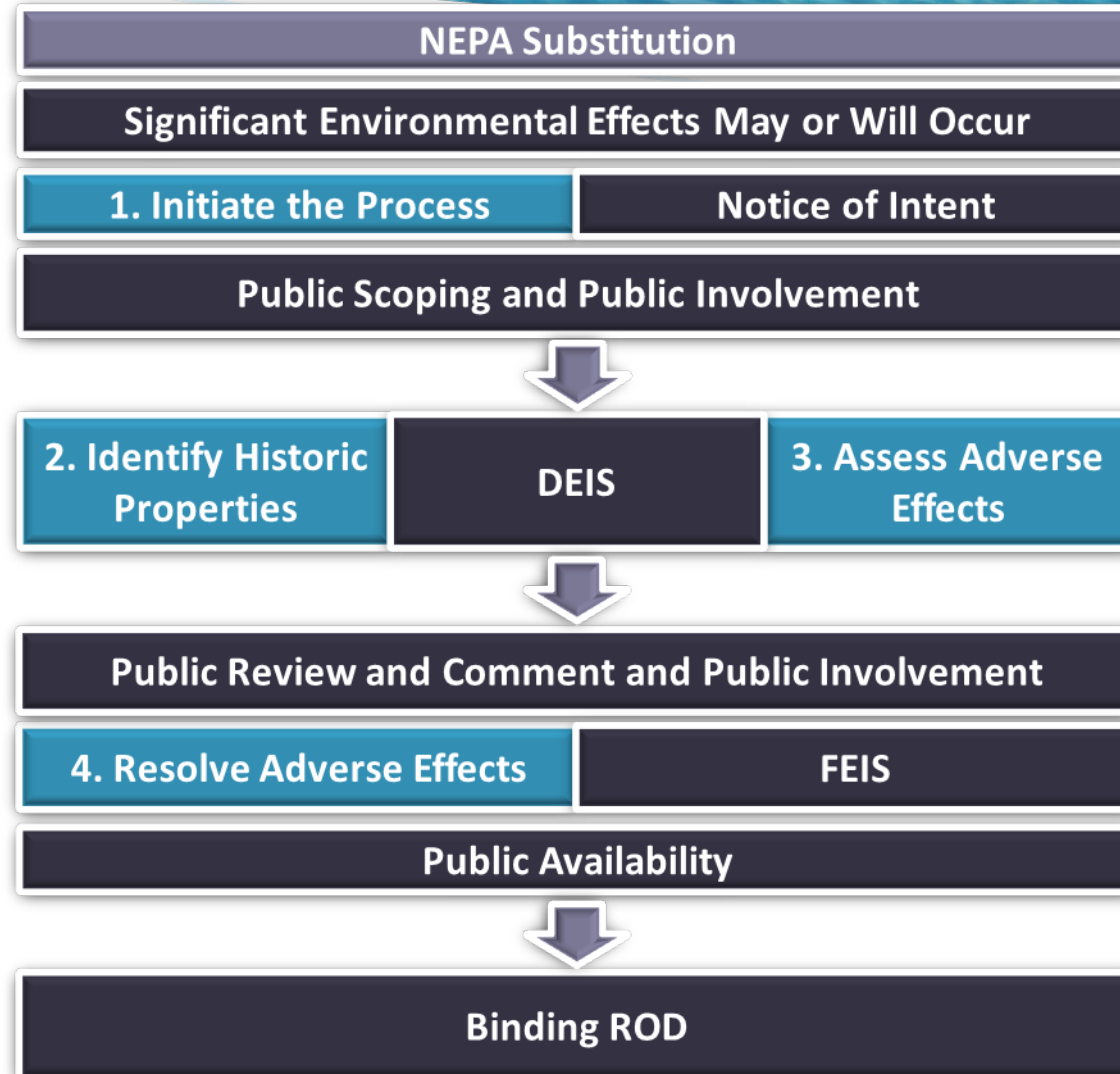
- **Environmental review to run concurrent with consultations**
- **Section 106, National Historic Preservation Act (NHPA)**
- **Coastal Zone Management Act (CZMA)**
- **Endangered Species Act (ESA)**
- **Marine Mammal Protection Act (MMPA)**
- **Magnuson-Stevens Fishery Conservation and Management Act**
- **Migratory Bird Treaty Act (MBTA)**



NEPA Substitution for NHPA Section 106 Review

- **BOEM is implementing NEPA Substitution for Section 106 Review mainly due to lessons learned from the earliest COP consultations & reflection of stakeholder needs;**
- **BOEM needs an efficient, streamlined approach that better integrates NHPA and NEPA reviews both thematically, and in terms of schedule;**
- **Lessees need clearer expectations of the timeline for environmental review, and costs of mitigations;**
- **Consulting parties and stakeholders need earlier and more direct input into the selection of alternatives and mitigation measures;**
- **Tribes need greater focus on government-to-government consultation.**

Environmental Review of COP



EIS Schedule

Fall 2022

Publish Draft EIS – (45-day public comment period)

Summer 2023

Publish Final EIS

Late Summer 2023

Conclude consultations and publish Record of Decision

BOEM Environmental Studies Program

- **Extensive environmental studies program**
- **Funds and manages scientific research to inform decision-making processes and fill data gaps**
- **Snapshot of relevant studies:**
 - EMF Impacts on Elasmobranch (sharks, rays and skates) and American Lobster Movement and Migration – Led by University of Rhode Island
(<https://espis.boem.gov/final%20reports/5659.pdf>)
 - Evaluation of Potential EMF Effects on Fish Species of Commercial or Recreational Fishing Importance in Southern New England
(https://espis.boem.gov/final%20reports/BOEM_2019-049.pdf)



BOEM Environmental Studies Program

- **Snapshot of relevant studies:**
 - Real-time Opportunity for Development Environmental Observations (RODEO) (www.boem.gov/RODEO)
 - Atlantic Offshore Wind Energy Development: Values and Implication for Recreation and Tourism (<https://epis.boem.gov/final%20reports/5662.pdf>)
 - Megafauna Aerial Surveys in the Wind Energy Areas of Massachusetts and Rhode Island with Emphasis on Large Whales: Interim Report Campaign 6A, 2020 (https://epis.boem.gov/Final%20reports/BOEM_2021-054.pdf)
- **Visit our website: www.boem.gov/Renewable-Energy-Environmental-Studies**



Sunrise Wind Project

Lia Howard

Orsted, Senior Environment & Permitting Specialist



Sunrise Wind

A Joint Venture of Ørsted and Eversource

Project Overview – Scoping Meeting

**Sunrise
Wind**

Powered by
Ørsted &
Eversource



Agenda

01 Project Overview

02 Project Surveys and Assessments

03 Stakeholder Engagement



Offshore Wind Pioneer

- 20+ years of experience building offshore wind farms
- Built the first offshore wind farm in the world
- Owns and operates America's first offshore wind farm - Block Island Wind Farm

Proven Expertise

- 28 successful offshore wind farms, with over 1,500 turbines installed worldwide and the largest project portfolio in the country



National Energy Leader with Northeast Roots

- 100+ year history of operation in Northeast New England's largest energy company
- Deep-rooted knowledge of the region's electrical system with unparalleled expertise in energy transmission

Catalyst for Clean Energy Solutions

- Leading driver of northeast, clean energy economy supporting economic development across the region



Note: For illustrative purposes only.

Sunrise Wind: A Brief Overview

Offshore Wind Renewable Energy Certificate (OREC) Agreement executed with the New York State Energy Research and Development Authority (NYSERDA) in October 2019.

Schedule

- Ongoing Stakeholder meetings
- 2020 – 2022 Apply for permits
- 2023 Permit approvals
- 2023 Installation begins onshore
- 2025 Estimated operational date

Socioeconomic and Environmental Benefits

- ✔ Helping New York meet its bold clean energy goals
- ✔ Thousands of direct, indirect, and induced jobs in the United States during construction
- ✔ Dozens of direct, indirect, and induced jobs in the United States during operation
- ✔ Supports offshore wind education, supply chain, and workforce development for the growing offshore wind industry
- ✔ Improve overall quality of life by supporting the sustainability of the natural environment



Clean air



Sustainable future



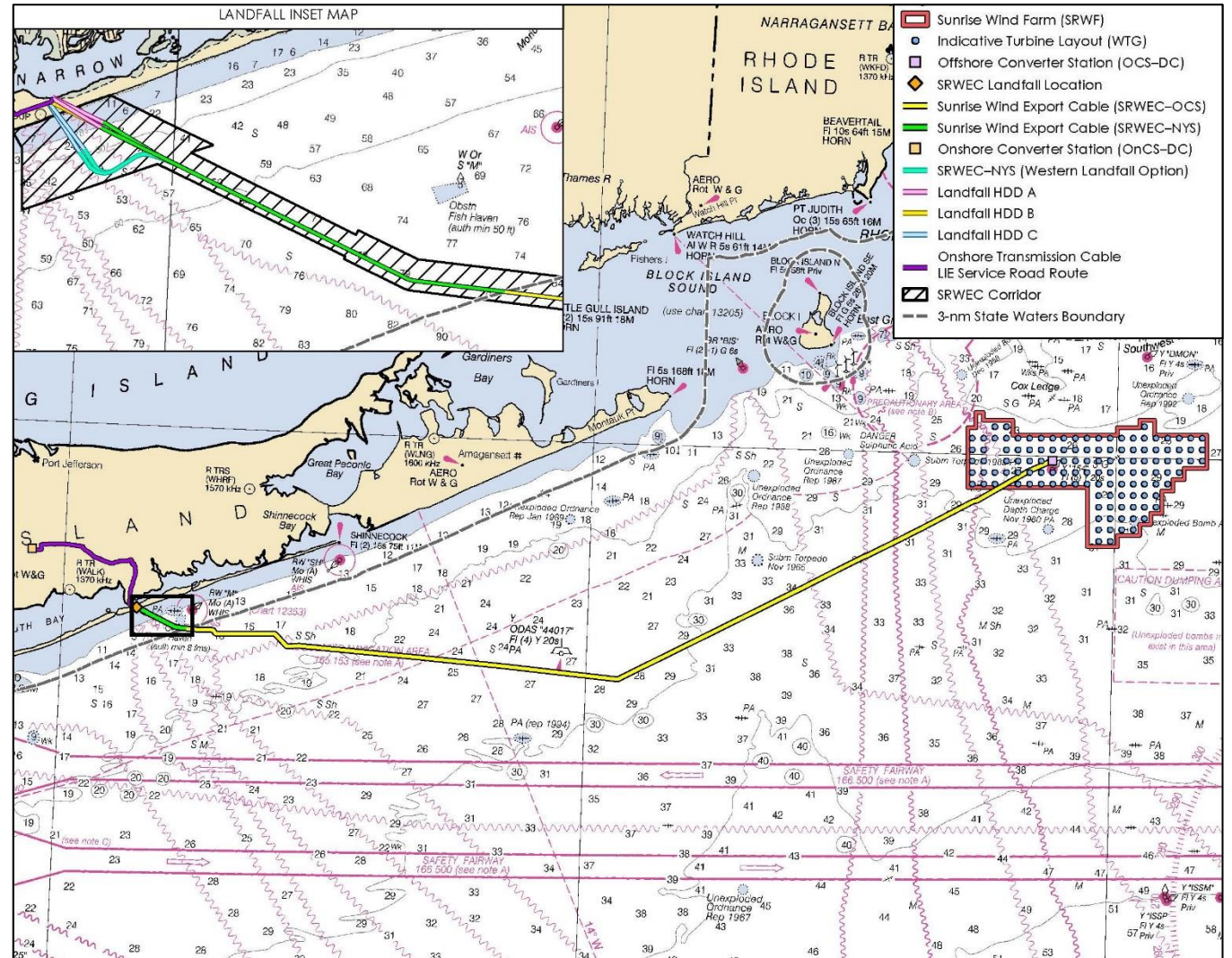
Jobs



Economic growth

Sunrise Wind Project Location Offshore

- Wind Turbines
- Inter-Array Cable
- Offshore Converter Station
- Export Cable



Offshore Project Envelope

→ Wind Turbines (WTGs)

- 8-15 MW
- Up to 122 positions with 1x1 nm spacing
- Monopile foundations

→ Inter-Array Cable

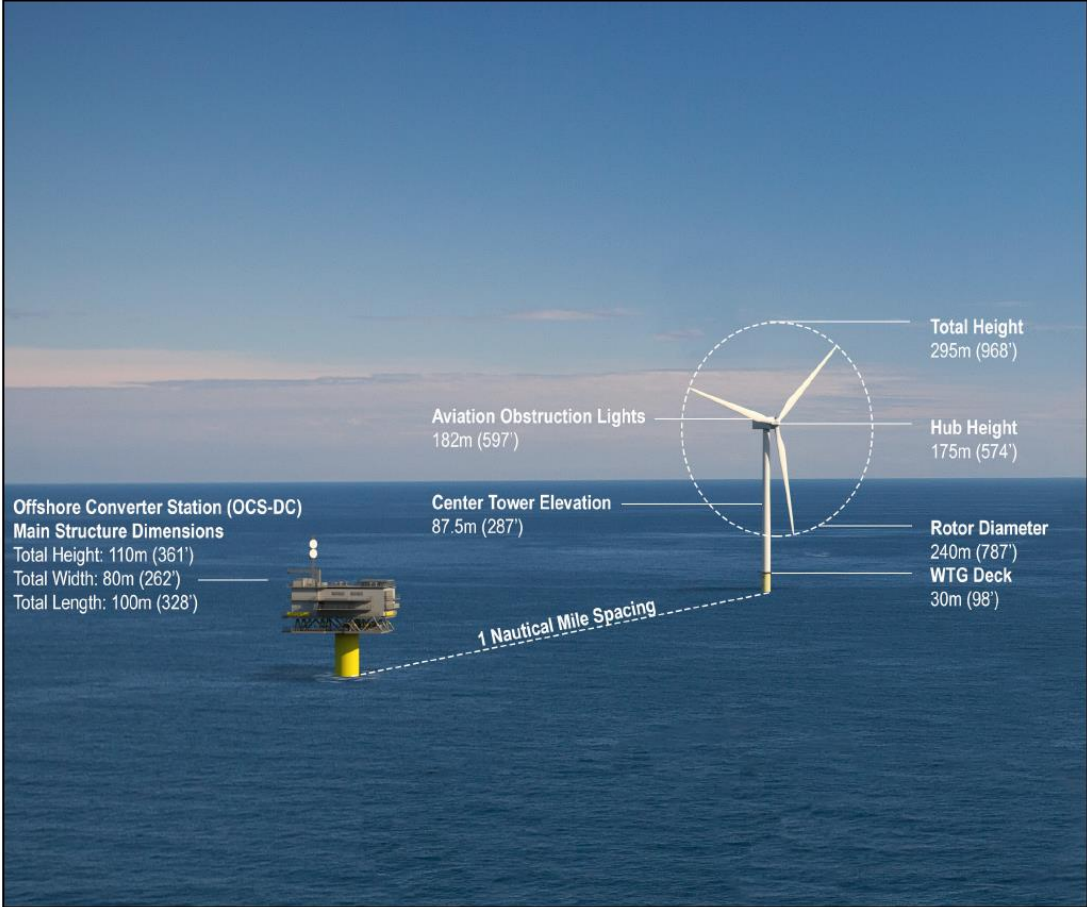
- Up to 186 mi of cable
- 3-7 ft target burial depth
- Cable diameter: ~8 in

→ Offshore Converter Station (OCS-DC)

- One OCS-DC on a piled jacket foundation
- Cooling water intake and discharge system

→ Export Cable

- One DC export cable bundle
- 3-7 ft target burial depth
- Individual Cable Diameter: ~7.8 in
- Up to ~100 mi in Federal Waters
- ~6.2 mi in NY State Waters



*Details are based off a 15 MW Turbine

Sunrise Wind Project Location

Onshore

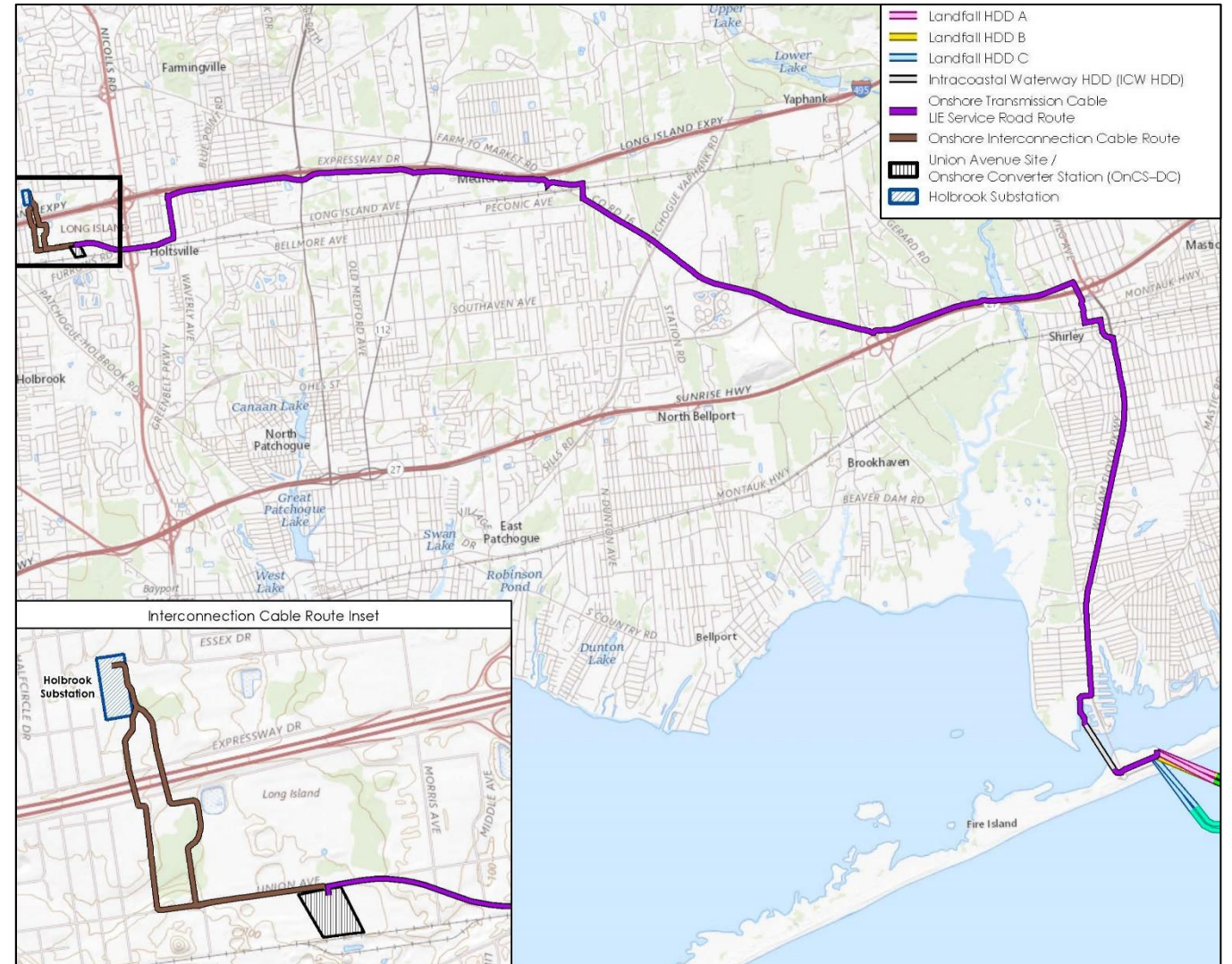
→ Landfall

→ Onshore Transmission Cable

- Fire Island Beach Road
- Smith Point County Park
- William Floyd Parkway
- Smith Point Marina
- East Concourse Drive
- Surrey Circle
- Church Road
- Mastic Boulevard
- Francine Place
- Francine Place
- Montauk Highway
- Revilo Avenue
- Sunrise Highway
- Manor Road
- LIE South Service Road
- Waverly Avenue
- Long Island Avenue
- Union Avenue

→ Onshore Converter Station

→ Onshore Interconnection Cable



Onshore Project Envelope

→ Landfall

- Horizontal Directional Drill (HDD) installation at Smith Point County Park parking lot in Town of Brookhaven, New York

→ Onshore Converter Station (OnCS-DC)

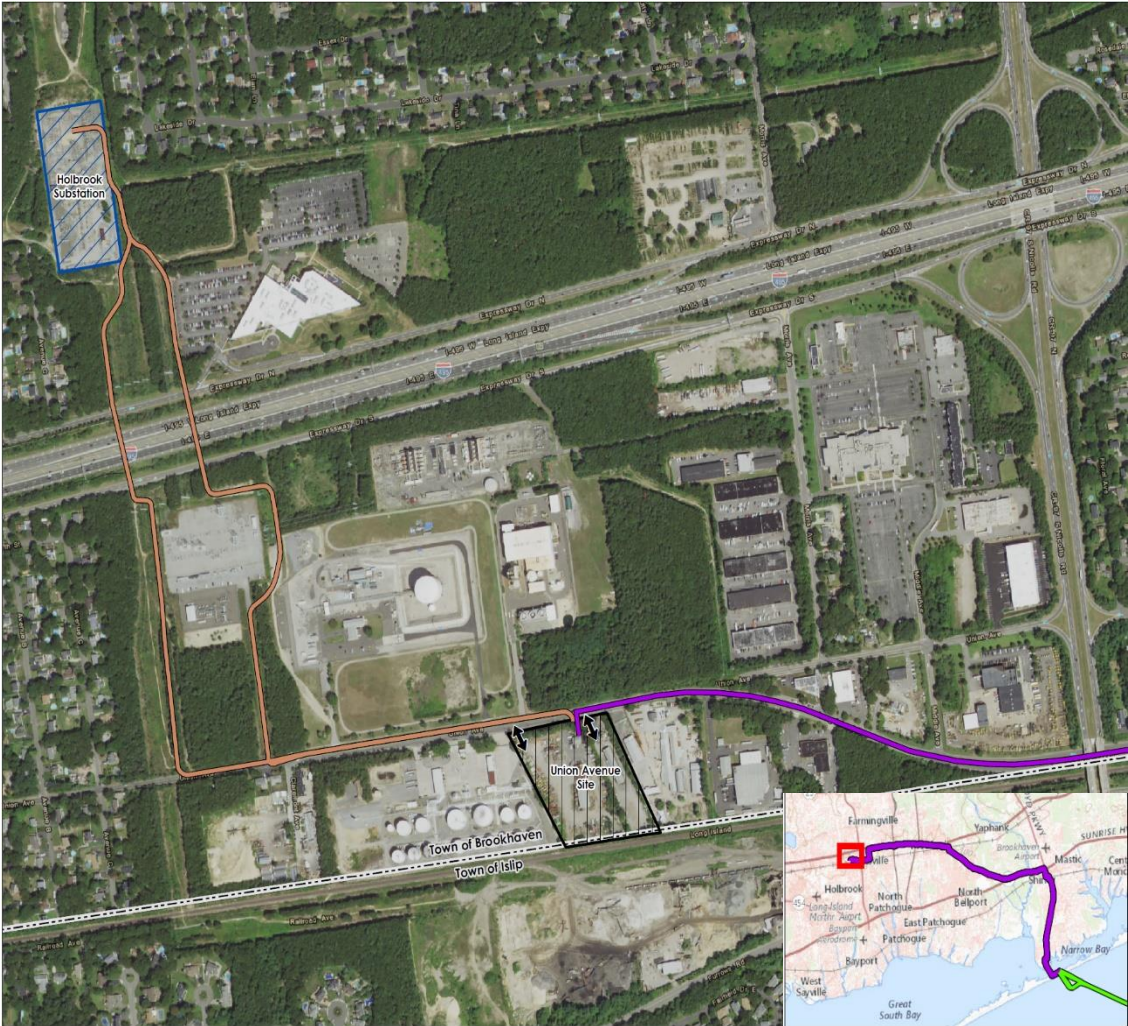
- New onshore converter station with operational footprint ~6 ac

→ Onshore Transmission Cable

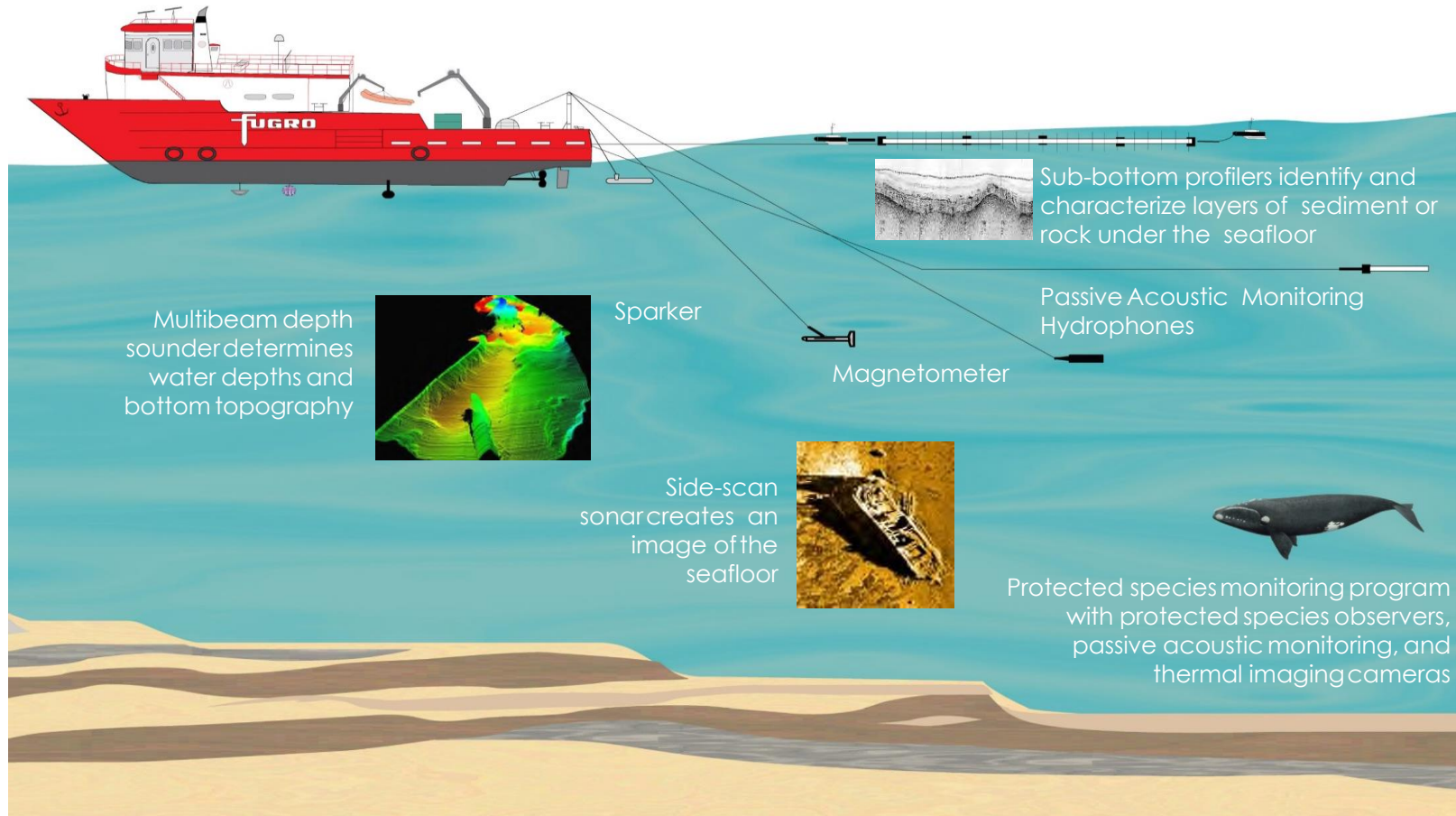
- Approximately 17 miles buried in a single duct bank

→ Onshore Interconnection Cable

- Approximately 1 mile buried in two separate duct banks
- Interconnection at Holbrook Substation



Site Characterization Surveys



Site Characterization Surveys

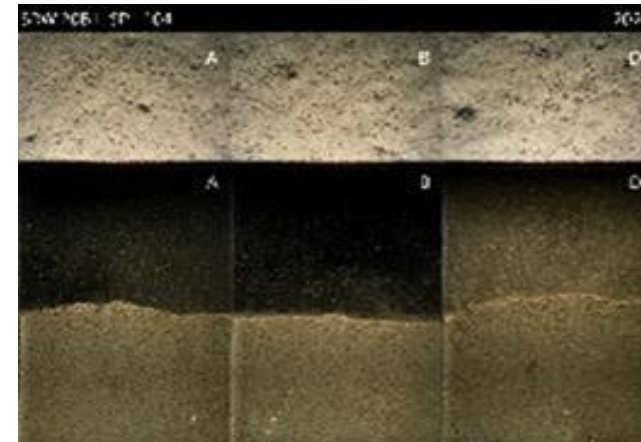
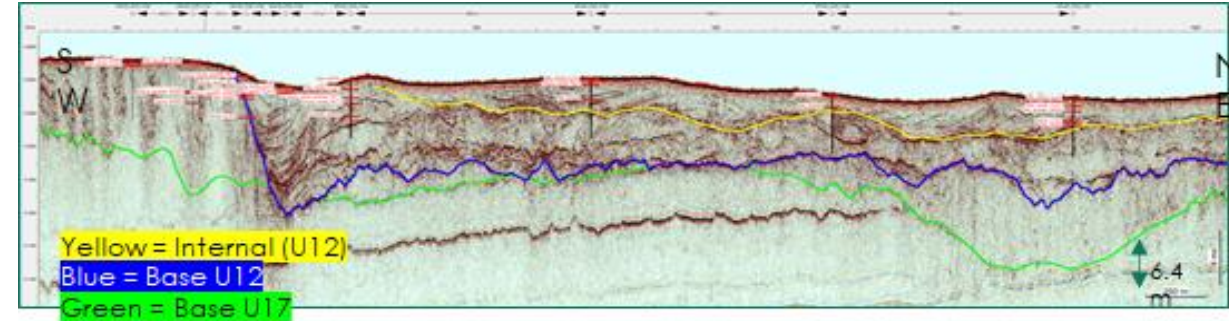
→ Geotechnical Sampling:

- Vibracore boring; seabed cone penetration tests (CPT); downhole CPT; downhole sample borings; P-S logging tests; thermal cone penetration tests (TCPT); seismic cone penetration tests (SCPT); conductivity, temperature, and density (CTD) profiling tests

→ Benthic – SPI/PV Imaging (20)

→ Archaeological Geotechnical Total Cores (17)

- Lease Area (12)
- Export Cable Route (5)



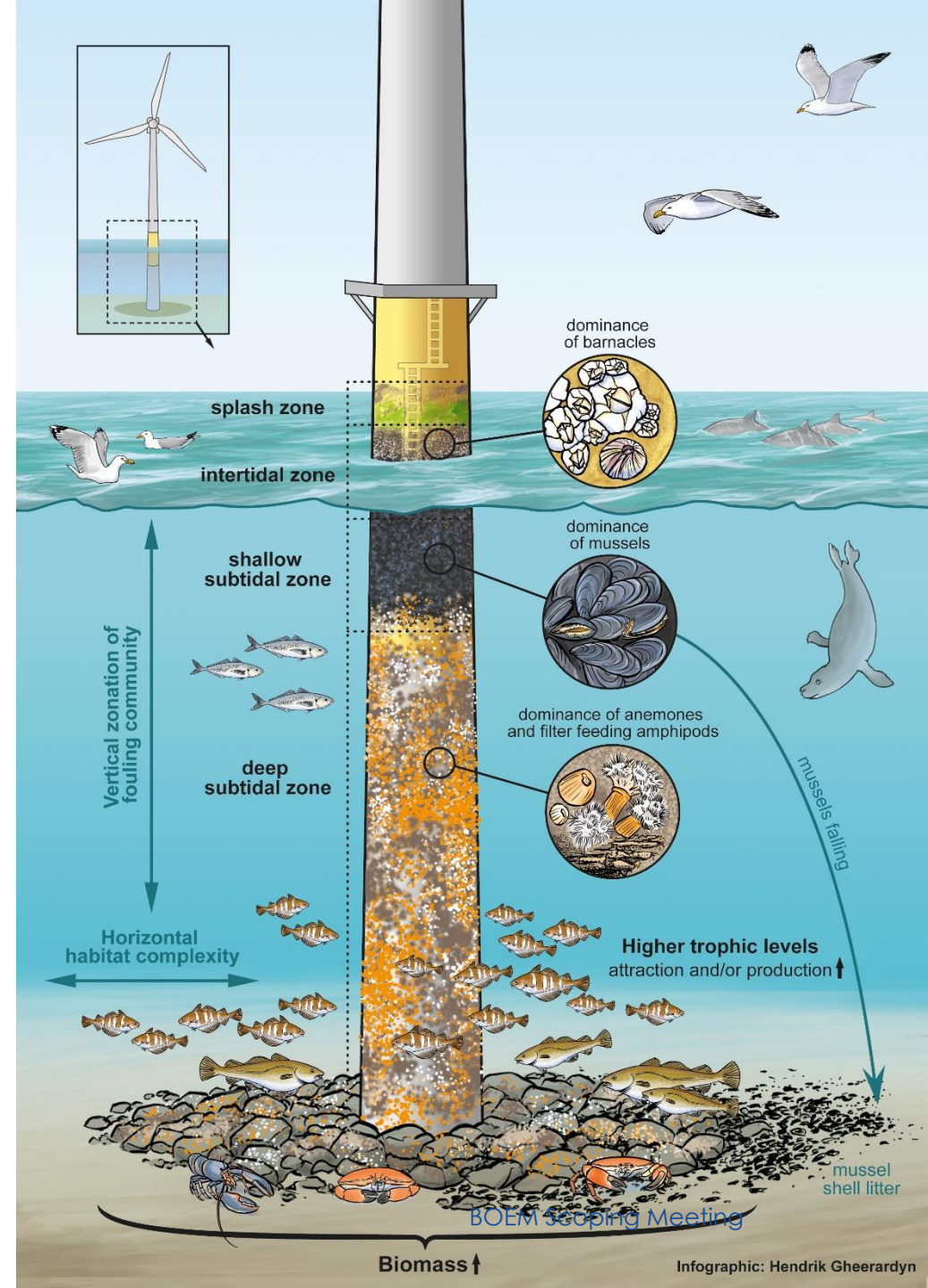
Natural Resource and Environmental Field Surveys

- ✔ Wetland and Ecological Surveys
- ✔ Onshore Acoustic Assessment
- ✔ Submerged Aquatic Vegetation Survey
- ✔ Benthic Habitat Survey



Fisheries and Other Marine Life

- ✔ Essential Fish Habitat (EFH) Assessment
- ✔ Marine Mammals, Sea Turtles, and Endangered Species Act-Listed Fish Species
- ✔ Avian and Bat Risk Assessment
- ✔ Underwater Acoustic Assessment
- ✔ Sediment Transport Modeling
- ✔ Electric and Magnetic Field (EMF) Assessment



Socioeconomic Resources and Navigation

- ✔ Commercial and Recreational Fisheries
- ✔ Economic Modeling
- ✔ Navigation Safety Risk Assessment
- ✔ Airspace and Radar Analysis
- ✔ Fisheries Communication Plan

Communication
Coordination
Collaboration



Visual and Cultural Resources

- ✓ Offshore Visual Impacts Assessment
- ✓ Onshore Visual Resources Assessment
- ✓ Marine Archaeology
 - Shipwrecks
 - Paleolandforms
- ✓ Terrestrial Archaeology
- ✓ Above-Ground Historic Resources



Viewpoint 10 - View from Union Ave, Town of Brookhaven, Suffolk County, looking West

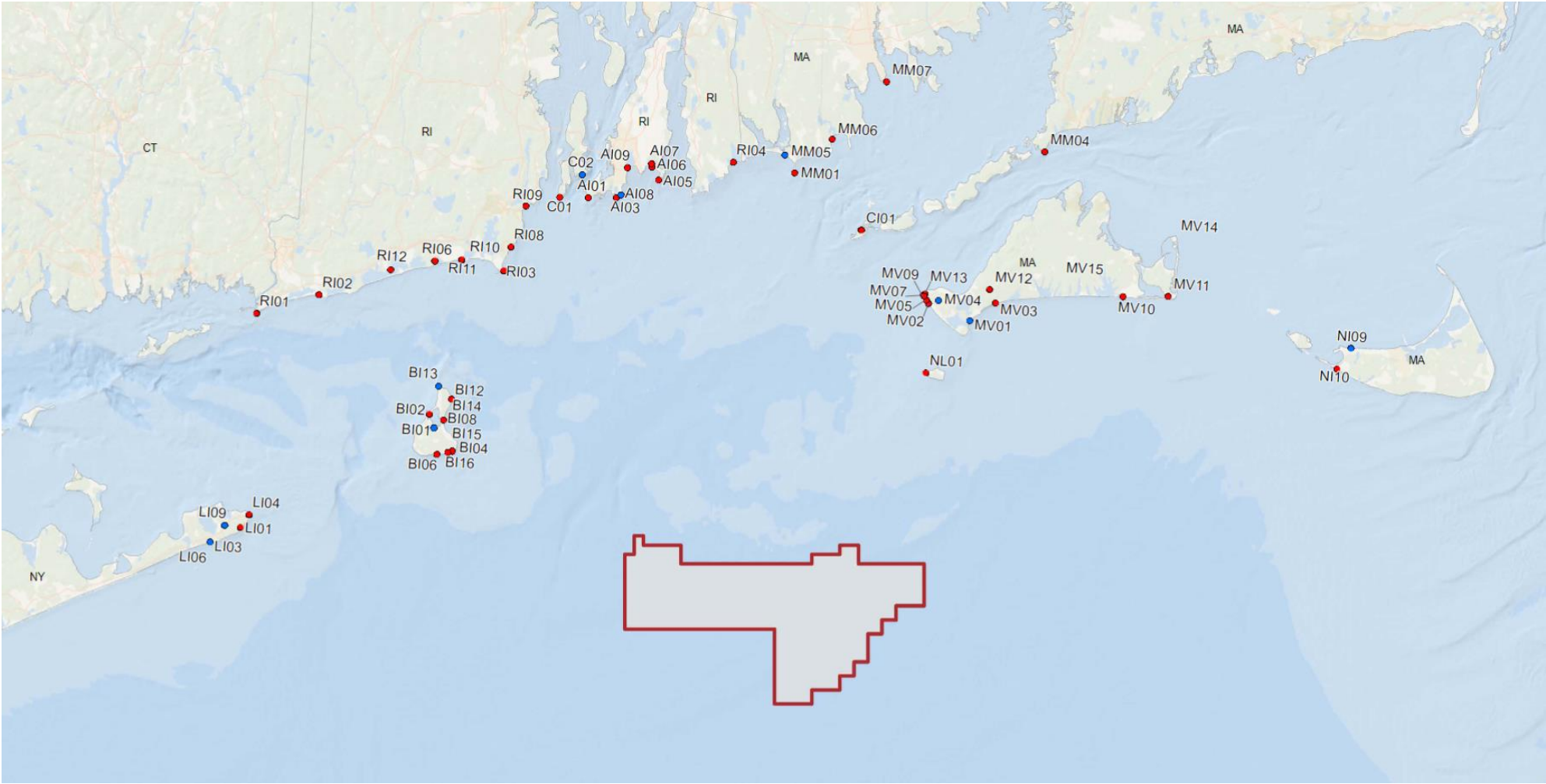


Inset 2.5-1. 1804 DeWitt A Map of the State of New York (left)



Side scan sonar image of a potential shipwreck site on the Outer Continental Shelf.

Visual Assessment – Key Observation Points



Visual Assessment - Simulations

Montauk Point State Park
Long Island, Town of East
Hampton, Suffolk County (30.6 mi.)



Simulations should be viewed on a 24-inch monitor from a distance of approximately 30 inches.

Visual Assessment - Simulations

Scarborough Beach State Park
Town of Narragansett,
Washington County (27.1 mi.)



Simulations should be viewed on a 24-inch monitor from a distance of approximately 30 inches.

New York

Visual Assessment - Simulations

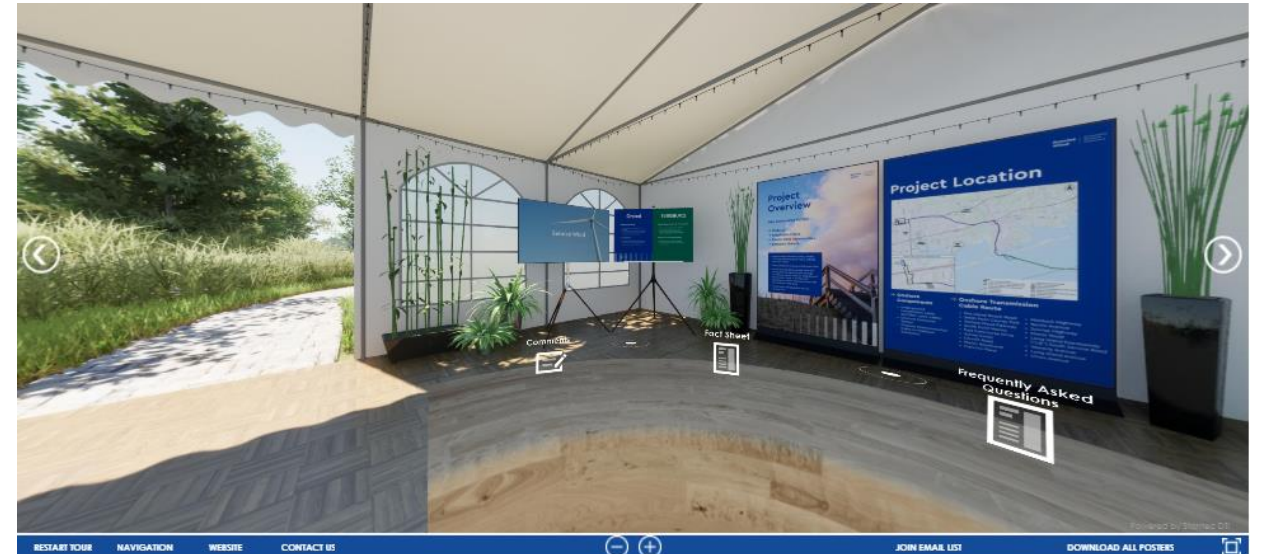
Cuttyhunk Island
Cuttyhunk Island, Town of
Gosnold, Dukes County (25.8 mi.)



Simulations should be viewed on a 24-inch monitor from a distance of approximately 30 inches.

Stakeholder Engagement

- ✔ Project Website & Virtual View Room
- ✔ Recurring meetings with BOEM and state and local agencies & stakeholders
- ✔ Participation in NYSERDA-hosted Technical Working Groups
- ✔ Virtual Open House: November 2020
- ✔ Ad-hoc meetings with stakeholder groups/representatives



Sunrise Wind Commitments



Promote the responsible growth of the American offshore wind industry



Focus on maintaining access and navigation in and around Sunrise Wind for all ocean users



Complete scientific research collaboratively with the fishing and environmental communities



Being accessible and available



THANK YOU

Contact Us

www.sunrisewindny.com

info@sunrisewindny.com

**Sunrise
Wind**

Powered by
Ørsted &
Eversource

5 Minute Break



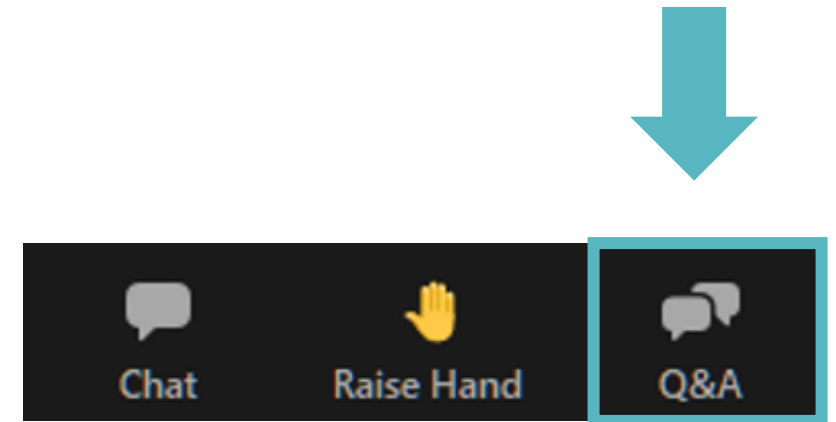
Public Comment Listening Session

Marcy Miller
Facilitator, FHI Studio



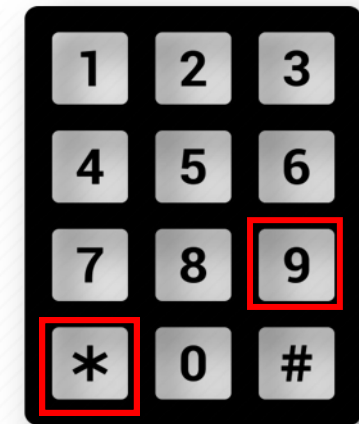
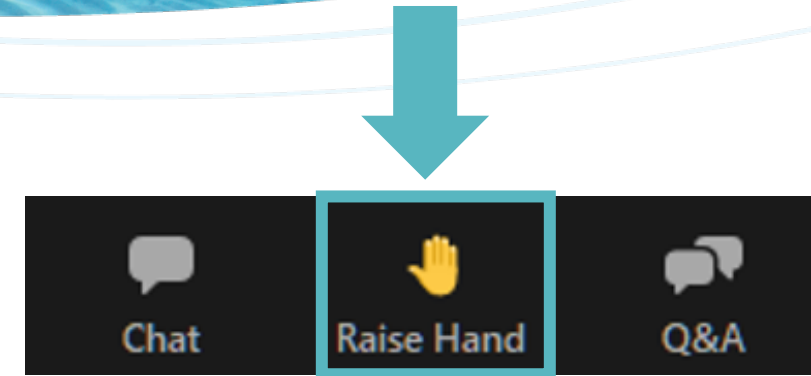
Have a Clarifying Question?

- **If you have a question, please click on the Q&A icon at the bottom of your screen to send it to us**
- **We will take new questions through the end of the Public Comment session**
- **During the Q&A session we will share the questions and answers verbally**



Public Comment Process

- We will start by calling on those who registered in advance to comment. If you did not register to comment but would like to, raise your hand.
- We will post the names of the next five people in line to comment in the chat.
- Use 'raise hand' button when you see your name in the chat (or *9 for phone-only participants).
- When you are called upon, the Facilitator will invite you to unmute your line.
- Please state and spell your name when you begin and limit comments to 5 minutes.



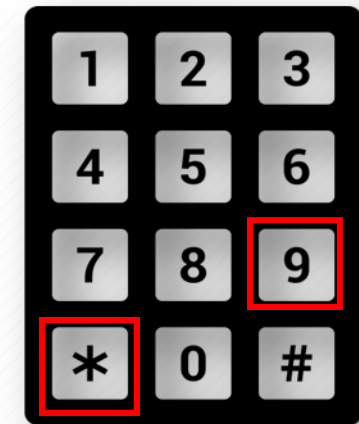
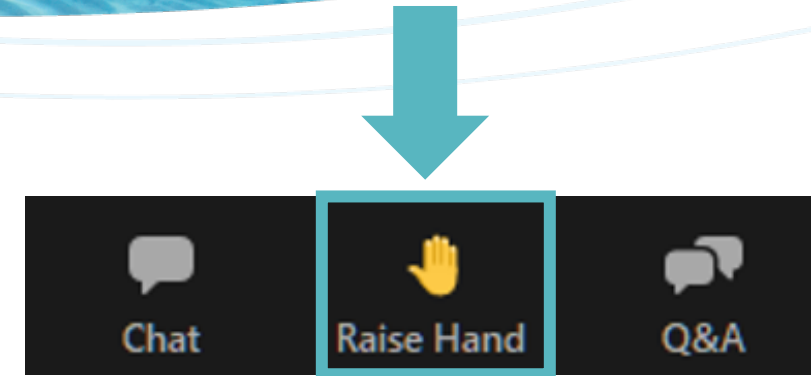
Public Comment Session

- **At this stage in the process, the following types of information are particularly useful:**
 - Significant issues to be analyzed in EIS
 - Identification of sources of information to include in the EIS
 - Gaps in data and information needs
 - Reasonable alternatives
- **Please refrain from any inappropriate language or profanity**
- **Please direct comments to BOEM rather than to or about other commenters**



Public Comment Process

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Public Comment Session

05:00

Other Ways to Comment

At a future meeting

Register on the virtual meeting site

<https://www.boem.gov/sunrise-wind-scoping-virtual-meetings>

In writing via mail

Program Manager
Bureau of Ocean Energy Management
Office of Renewable Energy Programs
45600 Woodland Road
Sterling, VA 20166

Online at *www.regulations.gov*

Enter BOEM-2021-0052; click “search.”

Use the “Comment Now!” button on the right side of the screen

5 Minute Break



Question & Answer Session

Marcy Miller
Facilitator, FHI Studio



Thank You & Closing Remarks

Michelle Morin

BOEM, Chief Environmental Branch for Renewable Energy

