

#### Maine Floating Offshore Research Array

Wildlife Work Session #1

MARCH 5,2021 1:30-4:30 PM



Webinar will begin in a few moments.

#### Zoom Meeting Reminders

- Everyone, please MUTE yourself, except when speaking. If you are on the phone, press \*6 to mute/unmute.
- Please rename yourself Breakout (BB or MM), Name, Affiliation, Breakout Group (Birds/Bats <u>OR</u> Marine Mammals/Other)

"BB, Laura Singer, Facilitator"

- Raise your hand, use the blue "Raise Hand" function in the participants tab. If you are on the phone, press \*9. Or just raise your hand on the screen.
- Use "Chat" function to ask questions as well and share information.
- Technical assistance: Zoe Miller zmiller@cbi.org

#### Navigating Our Discussion

- Be attentive to today's objectives.
- Focus on task at hand (avoid multitasking).
- Both questions and comments welcome
- Listen to learn and speak to share expertise.
- Share the floor: Please be mindful of your time to allow others to speak
- Be direct and respectful: Express your views and let others do the same
- The session will not be recorded

#### Research Array Process Elements



#### Work Sessions

Provide <u>advice and counsel</u> to the State to help guide its decisions involving

- 1. the siting of the research project area and its configuration,
- 2. research themes of interest for the research project to learn from, and
- 3. other relevant project design elements to be considered for the research lease application.

#### Wildlife Work Sessions

#### March 5: Meeting #1

- What data do we have?
- What's missing?
- How and what could we get during this process?
- Initial discussion of high, moderate or low potential for interaction

#### March 26: Meeting #2

- Review additional data and initial finding from fisheries
- What are better and worse areas? Why?
- Explore layout considerations to minimize interactions
- How might turbines be placed inside the site?
- What is the research approach and key questions?

#### TBD – Joint meeting with Fisheries

- Hone further siting considerations and pros/cons
- Review and discuss baseline data needs in advance of project design and construction
- Review and discuss possible research focus and questions for the array itself

### Objectives for Today

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- Set expectations and goals of working sessions
- Understand what data is currently available to determine which species are present in the research area of interest, focusing on those populations most vulnerable
- Generate ideas for additional data sets that may be useful to consider to inform siting

# Wildlife Work Session #1 Agenda

| 1:30 | Welcome and Overview                                  |
|------|---|
| 1:45 | <b>About Maine's Research Array</b>                   |
| 2:00 | Understanding Data to Inform<br>Siting Considerations |
| 3:00 | Break   |
| 3:15 | <b>Breakout Session</b>                               |
|      | Birds & Bats  |
|      | Marine Mammals  |
| 4:00 | Report Back   |
| 4:20 | Wrap Up & Next Steps                                  |

# Maine's Offshore Wind Initiative

Celina Cunningham, Deputy Director Governor's Energy Office

#### CLIMATE COUNCIL GOALS

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**L**ARE RESILIENT TO THE IMPACTS OF CLIMATE CHANGE.

## **Offshore Wind in** Maine





Data Source: AWS Truepower 0-50nm; NREL WIND Toolkit beyond 50nm.





#### **Maine Offshore Wind Initiative**

- Pursues strategic opportunities for additive economic activity and innovation across various sectors and regions of Maine
- Maximize compatibility with existing marine uses and fisheries and take a data-driven, inclusive, transparent approach
  - Maine fisheries: \$674M in Maine's commercial fishing landings in 2019 (\$485M in lobster landings alone, most valuable single species fishery in US); 2X commercial fishing trips out of Maine than any other state on the east coast
- Support Maine engagement in BOEM Task Force and regional coordination

#### Maine's Floating Offshore Wind Roadmap

October 2020

US EDA Grant: \$2.167 million for a strategic roadmap to develop offshore wind industry in Maine, focusing on:

- Ports and infrastructure
- Manufacturing, supply chain, workforce
- Innovation
- Research array and research priorities
- Ocean and environmental data
- Stakeholder engagement

# **Maine Offshore Wind Projects**



#### University of Maine Technology Optimized for Maine

- Can be built in Maine
  - Concrete / not steel
  - Modular construction
  - Creates jobs in Maine
- Fits Maine's waters
  - Suited for mid-depth waters
  - Very stable & shallow draft







# Research Array By the Numbers



12 floating turbines or fewer
16 square miles or smaller

## **State of Maine**

- Governor's Energy Office (lead)
- Department of Marine Resources
- Governor's Office of Policy Innovation and the Future
- Department of Inland Fish and Wildlife
- Department of Environmental Protection
- Department of Economic and Community Development
- Consensus Building Institute (Consultant Facilitator)

# New England Aqua Ventus

 Diamond Offshore Wind/RWE Renewables

# University of Maine

• Technology

#### Federal Agency and MA/NH State Agency Coordination

#### Who is Involved?

#### Preliminary Project Timeline



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# Listening and Adapting



#### In response to fishing industry concerns, Gov. Mills announced the following:

- Support for 10-year moratorium on new offshore wind in **state waters**
- Additional time for planning and discussion, prior to lease application
- A review of applicable state laws

# Siting Criteria

### Initial Siting Criteria

**20-40** statute miles offshore **150** feet of water or deeper **Southern** half of ME interconnect **Bottom** type gravel and/or mud Minimal conflicts with known fishing grounds **Avoid** highly trafficked areas Limit visibility from shore

### Research Array General Area of Interest



# **Site Selection Process**



# **Research Approach**

## Research Approach

- Research is the key driver for the array.
- Research objectives will inform:
  - Siting process and decision
  - Project design, layout and operations

#### **Overall research process:**

- Key themes in initial application
- Further develop research approach through roadmap effort
- Stand up formal consortium, with diverse interests at the table
- Seek broad funding opportunities
- Open source data

## Research Approach



- Environment and ecological interactions
- Interactions with fishing activity
- Navigation
- Technology research and demonstration, including mooring systems
- Workforce education and training
- Others?

# Breakout Groups

#### **Key Questions:**

- 1. Determine if there available, relevant, additional data that can be used to inform siting considerations for wildlife. Both presence/absence and habitat features of interest.
- 2. What does initial data tells us about areas of high, medium or low potential for interaction?
- 3. Beyond threatened and endangered species, are there species that may be particularly vulnerable to potential hazards that should be considered?
- 4. What do we need to do before next session to advance this siting effort for wildlife considerations?

#### **Zoom Navigation:**

- BEFORE BREAK: Self-select either Birds/Bats or Marine Mammals/Other Breakout groups and GO to Group before they grab coffee, etc.
- If you can't self-select, Zoe will work with you in the main Zoom room (plenary) to select for you
- Chat with Zoe on selection or other technical issues



#### **Maine Floating Offshore Research Array**

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BREAK: Webinar will resume in breakout session at begin in .

# Wildlife Work Sessions Timeline



#### For information: www.maine.gov/energy/initiatives/offshorewind

#### Questions? offshorewind@maine.gov

#### **Additional Input on Wildlife?**

Amanda Cross Wildlife Resource Supervisor, Department of Inland Fisheries & Wildlife Amanda.S.Cross@maine.gov (207) 592-4967 How Do I Stay Informed and Provide Additional Input?