IOOS ADVISORY COMMITTEE

Wind Energy Panel

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OrstedMay 2022



Ørsted Offshore North America portfolio Awarded ~5,000 MW of offshore capacity on the East coast



Operational

Awarded

Jnder construction

In Operation

Block Island Wind Farm: 30MW

Under construction

South Fork Wind: 50/50 JV w/ Eversource, 132MW

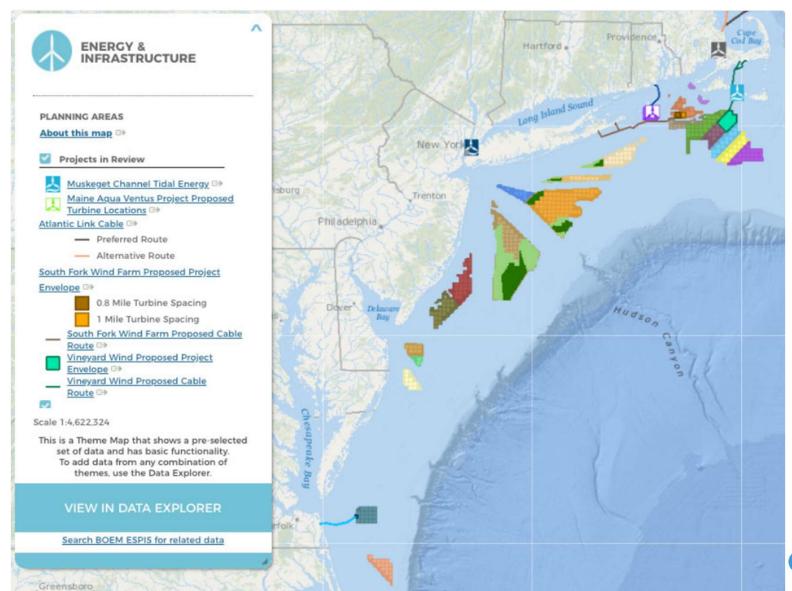
Awarded

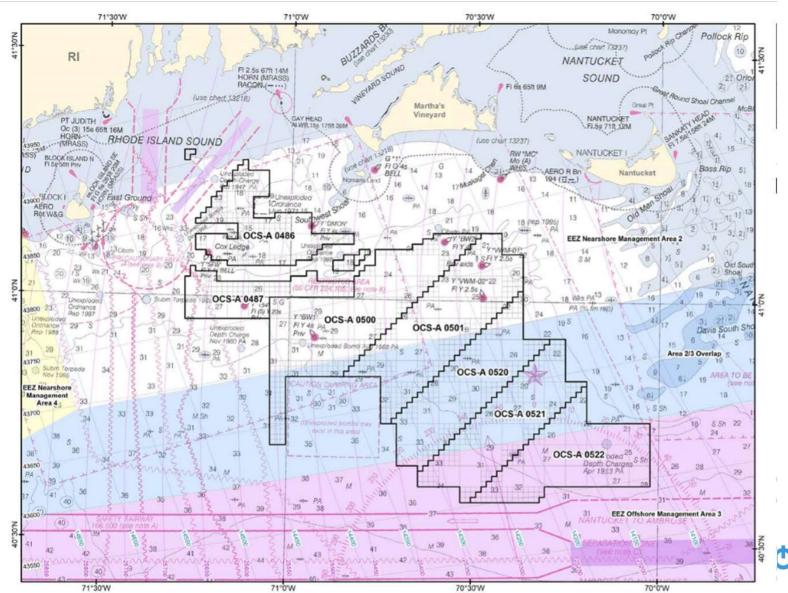
Revolution Wind: 50/50 JV w/ Eversource, 704MW

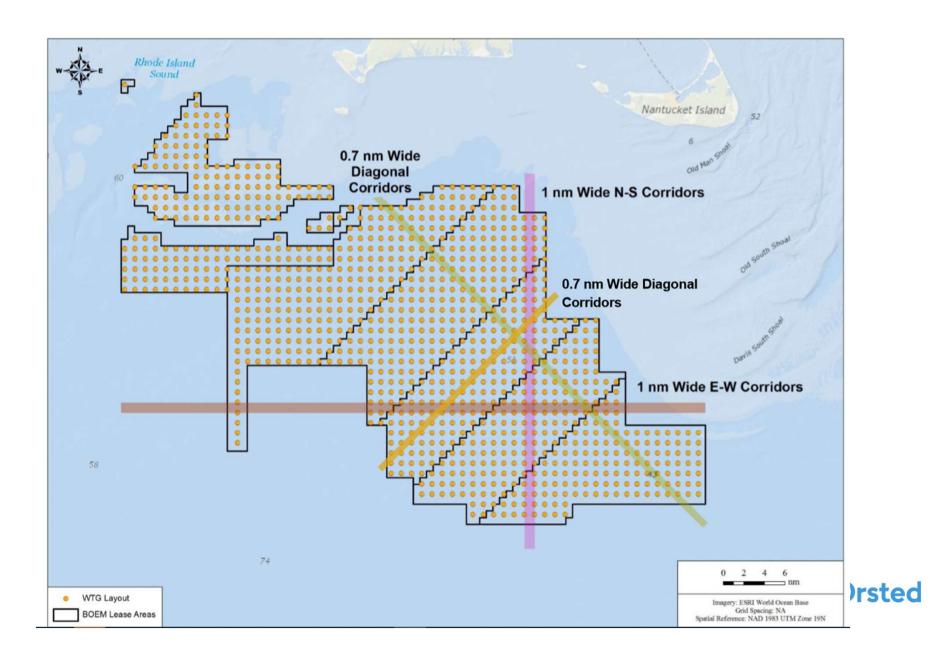
Sunrise Wind: 50/50 JV w/ Eversource, approximately 924MW

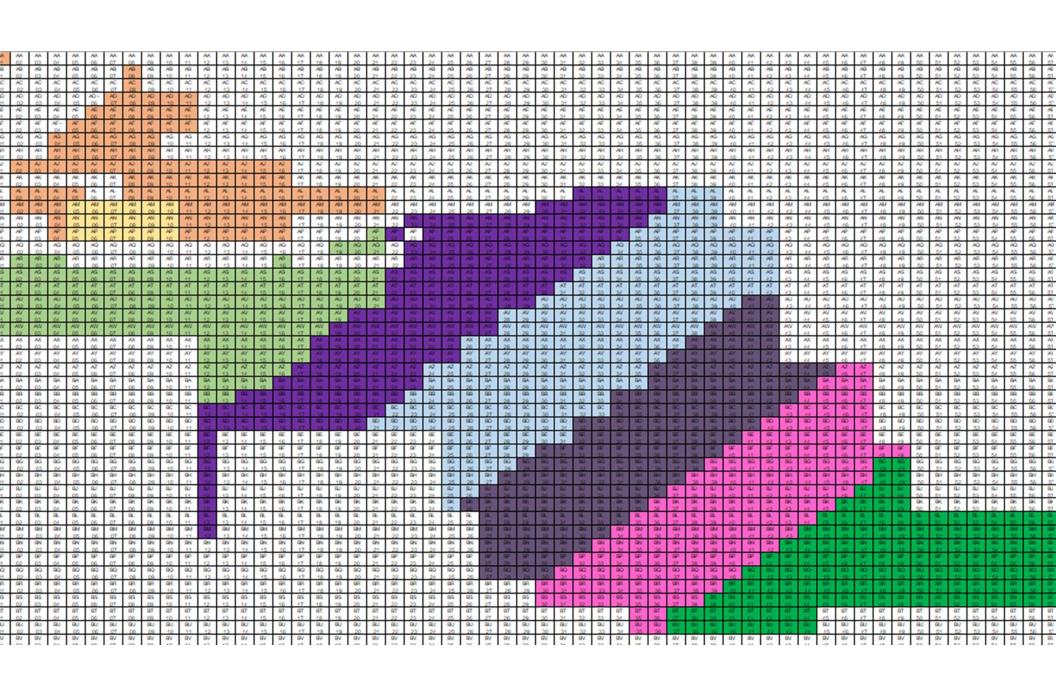
Ocean Wind 1: 75/25 JV with PSEG, 1,100MW

Ocean Wind 2: 1,148MW Skipjack Wind 1: 120MW Skipjack Wind 2: 846MW

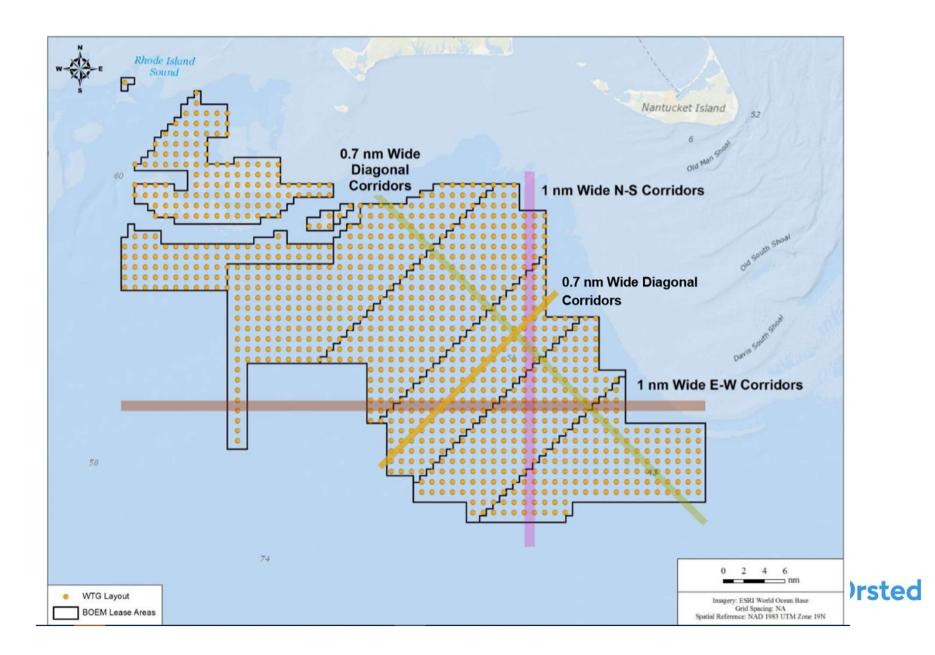


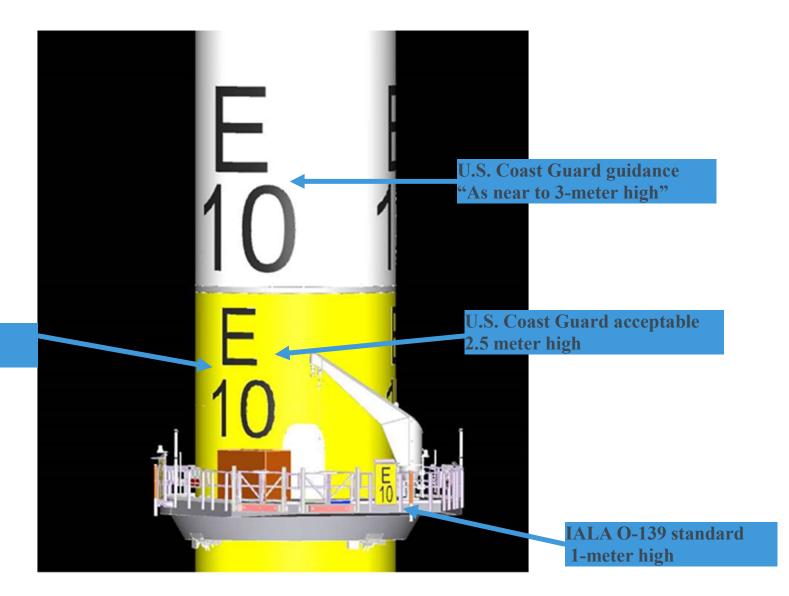






| AJ |
|----|----|----|----|----|----|----|----|----|----|----|----|
| 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 |
| AK |
| 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 |
| AL |
| 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 |
| AM |
| 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 |
| AN |
| 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 |
| AP |
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| AQ |
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| AR |
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| AS |
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| AT |





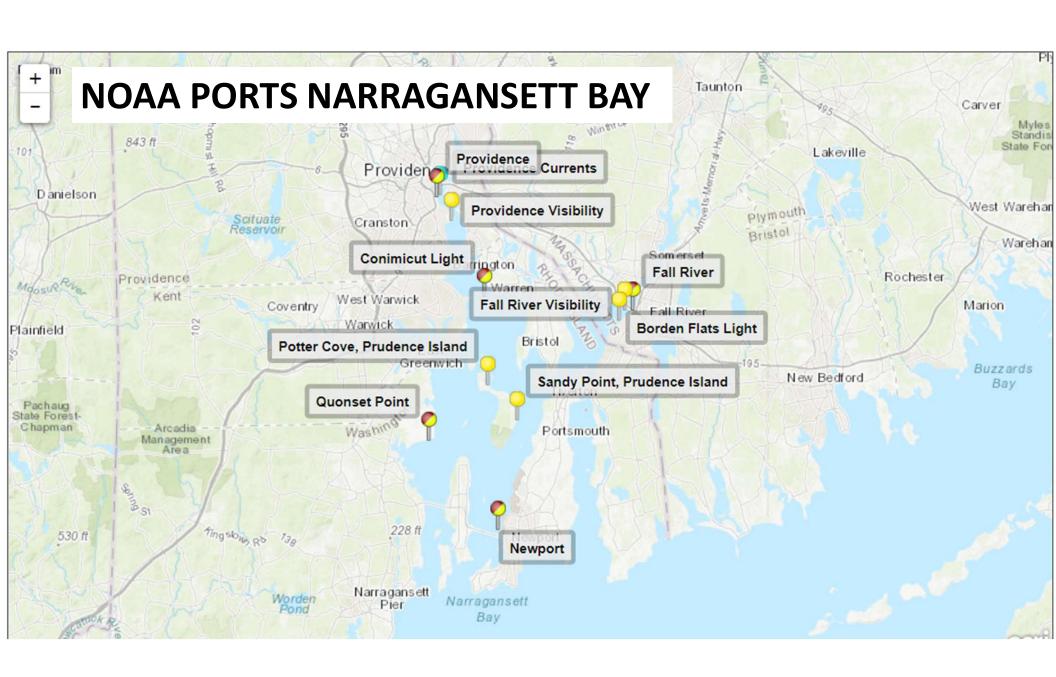
Retro-reflective paint
No artificial illumination

Tier 1 Mitigations:

Tier 1 Mitigations								
#	SAR Mitigation	Notes						
1	Enhanced VHF coverage	Expanded VHF range						
2	Cellular coverage	E-911 Program						
3	AIS Coverage	D1 LNM Guidance						
4	Uniform Alpha-Numeric Marking	D1 Design for MA/RI						
5	Marine Coordination Center/Maritime Ops Center	Monitoring and communications						
6	Access to Infrastructure Plan	Sharing of information						
7	24x7 Monitoring Capabilities	Adaptable for response incidents						
8	Enhanced ENC Symbology	Work with NOAA						
9	Facilitation of SAR Trials	Tabletop/simulations/real-world						
10	Self-Help Capabilities/Response Assistance	Project vessel presence offshore						
11	SMS/ERP/OSRP Documentation for Projects	Included within Project COPs						

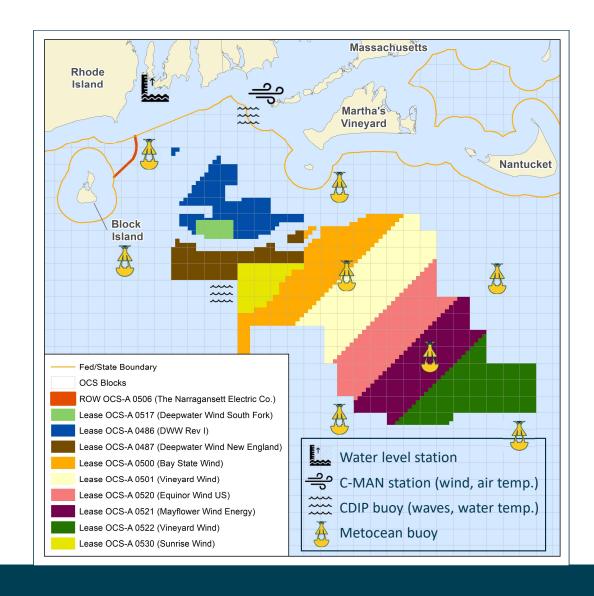
Other Collaborative Issues:

- 1. New IALA Marking Guidance
- 2. PATON Process
- **3.** AIS
- 4. Emergency Response Plans
- 5. Reflective Paint
- 6. UXO / MEC
- 7. Fisheries Issues
- 8. Jones Act Compliance
- 9. Vessel Safety Standards
- 10. HF Radar Mitigation



The Solution: Wind Energy Area Observing System

- Purpose-built observing system to support safe navigation and operations
- Key measurements and forecasts:
 - Wind speed, direction & gusts
 - Wave height, direction & period
 - Visibility
 - o Air & water temperature
 - Current speed & direction
- Full accessibility of real-time observations and forecasts to support all mariners





Thank you

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